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Superfund Record
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Summer Storm 1

Committed To *Your* Success

September 26, 2000

Severn Trent Laboratories
128 Long Hill Cross Road
Shelton CT 06484

Tel: (203) 929-8140
Fax: (203) 929-8142
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Mr. Larry Mctiernan
ROUX ASSOCIATES-MA
25 Corporate Drive
Suite 230
Burlington, MA 01803

Dear Mr. Mctiernan :

Please find enclosed the analytical results of 14 sample(s) received at our laboratory on September 6, 2000. This report contains sections addressing the following information at a minimum:

- sample summary
- analytical methodology
- state certifications
- definition of data qualifiers and terminology
- analytical results
- chain-of-custody

STL Report #7000-1926A	Purchase Order #06626M32
Project ID: INDUSTRIALPLEX	

Copies of this analytical report and supporting data are maintained in our files for a minimum of five years unless special arrangements have been made. Unless specifically indicated, all analytical testing was performed at this laboratory location and no portion of the testing was subcontracted.

We appreciate your selection of our services and welcome any questions or suggestions you may have relative to this report. Please contact your customer service representative at (203) 929-8140 for any additional information. Thank you for utilizing our services; we hope you will consider us for your future analytical needs.

I have reviewed and approved the enclosed data for final release.

Very truly yours,

Jeffrey C. Curran
Laboratory Manager

JCC

7000-1926A
ROUX ASSOCIATES

Case Narrative

Sample Receipt – All samples were received in good condition and at proper temperature.

Semi-Volatile Organics - Semi-volatile organic samples were extracted and analyzed by capillary GC/MS using guidance provided in Methods 3510C/8270C. The instrumentation used was a Hewlett-Packard Gas Chromatograph interfaced with a Mass Selective Detector.

All samples were extracted, concentrated and analyzed without any apparent problems.

Classical Chemistry - Listed below are the wet chemistry analyte methods and references for the samples analyzed in this SDG. No analytical problems were encountered.

Analyte	Method	Reference
TSS	160.2	1

References:

1. Methods of Chemical Analysis of Water and Wastes, EPA 600, 1983.

Metals – ICAP metals were determined using a JA61E trace ICAP; mercury was determined by cold vapor technique using a Leeman Labs mercury analyzer; following guidance provided in SW846 according to methods: ICAP – 3010A/6010B; mercury-7470A.

No problems occurred during analysis. All appropriate protocols were employed. All data appears to be consistent.

TABLE SV-1.0
7000-1926A
ROUX ASSOCIATES-MA
TCL SEMI-VOLATILE ORGANICS

All values are ug/L.

Client Sample I.D.	Method Blank	SW-09	SW-09 MS	Quant. Limits with no Dilution
Lab Sample I.D.	SBLKKQ	001926A-09	001926A-09MS	
Method Blank I.D.	SBLKKQ	SBLKKQ	SBLKKQ	
Quant. Factor	1.00	1.16	1.10	
Cyclohexanone	U	21	24	10
Phenol	U	U	32X	10
bis(2-Chloroethyl)ether	U	U	U	10
2-Chlorophenol	U	U	74X	10
1,3-Dichlorobenzene	U	U	U	10
1,4-Dichlorobenzene	U	U	29X	10
Benzyl alcohol	U	U	U	10
1,2-Dichlorobenzene	U	U	U	10
2-Methylphenol	U	U	U	10
bis(2-Chloroisopropyl)ether	U	U	U	10
4-Methylphenol	U	U	U	10
N-Nitroso-di-n-propylamine	U	U	42X	10
Hexachloroethane	U	U	U	10
Nitrobenzene	U	U	U	10
Isophorone	U	U	U	10
2-Nitrophenol	U	U	U	10
2,4-Dimethylphenol	U	U	U	10
Benzoic acid	U	U	U	50
bis(2-Chloroethoxy)methane	U	U	U	10
2,4-Dichlorophenol	U	U	.7J	10
1,2,4-Trichlorobenzene	U	U	42X	10
Naphthalene	U	U	U	10
4-Chloroaniline	U	U	U	10
Hexachlorobutadiene	U	U	U	10
4-Chloro-3-methylphenol	U	U	77X	10
2-Methylnaphthalene	U	U	U	10
Hexachlorocyclopentadiene	U	U	U	10
2,4,6-Trichlorophenol	U	U	U	10
2,4,5-Trichlorophenol	U	U	U	50
2-Chloronaphthalene	U	U	U	10
2-Nitroaniline	U	U	U	50
Dimethylphthalate	U	U	U	10
Acenaphthylene	U	U	.2J	10
2,6-Dinitrotoluene	U	U	U	10
3-Nitroaniline	U	U	U	50
Date Received		09/06/00	09/06/00	
Date Extracted	09/07/00	09/07/00	09/07/00	
Date Analyzed	09/08/00	09/08/00	09/08/00	

See Appendix for qualifier definitions
Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE SV-1.0
7000-1926A
ROUX ASSOCIATES-MA
TCL SEMI-VOLATILE ORGANICS

All values are ug/L.

Client Sample I.D.	Method Blank	SW-09	SW-09 MS	Quant. Limits with no Dilution
Lab Sample I.D.	SBLKKQ	001926A-09	001926A-09MS	
Method Blank I.D.	SBLKKQ	SBLKKQ	SBLKKQ	
Quant. Factor	1.00	1.16	1.10	
Acenaphthene	U	U	39X	10
2,4-Dinitrophenol	U	U	U	50
4-Nitrophenol	U	U	41JX	50
Dibenzofuran	U	U	U	10
2,4-Dinitrotoluene	U	U	46X	10
Diethylphthalate	U	.3J	.3J	10
4-Chlorophenyl-phenylether	U	U	U	10
Fluorene	U	U	U	10
4-Nitroaniline	U	U	U	50
4,6-Dinitro-2-methylphenol	U	U	U	50
N-Nitrosodiphenylamine (1)	U	U	U	10
4-Bromophenyl-phenylether	U	U	U	10
Hexachlorobenzene	U	U	U	10
Pentachlorophenol	U	U	110EX	50
Phenanthrene	U	U	U	10
Anthracene	U	U	U	10
Di-n-butylphthalate	U	U	U	10
Fluoranthene	U	U	U	10
Pyrene	U	U	38X	10
Butylbenzylphthalate	U	U	U	10
3,3'-Dichlorobenzidine	U	U	U	20
Benzo(a)anthracene	U	U	U	10
Chrysene	U	U	U	10
bis(2-Ethylhexyl)phthalate	1J	.7JB	U	10
Di-n-octylphthalate	U	U	U	10
Benzo(b)fluoranthene	U	U	U	10
Benzo(k)fluoranthene	U	U	U	10
Benzo(a)pyrene	U	U	U	10
Indeno(1,2,3-cd)pyrene	U	U	U	10
Dibenzo(a,h)anthracene	U	U	U	10
Benzo(g,h,i)perylene	U	U	U	10
Date Received		09/06/00	09/06/00	
Date Extracted	09/07/00	09/07/00	09/07/00	
Date Analyzed	09/08/00	09/08/00	09/08/00	

See Appendix for qualifier definitions
Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE SV-1.1
7000-1926A
ROUX ASSOCIATES-MA
TCL SEMI-VOLATILE ORGANICS

Aqueous

All values are ug/L.

Client Sample I.D. Lab Sample I.D. Method Blank I.D. Quant. Factor	SW-09 MSD 001926A-09 MSD SBLKKQ 1.22	FIELD BLANK 001926A-10 SBLKKQ 1.32		Quant. Limits with no Dilution
Cyclohexanone	25	2J		10
Phenol	35X	U		10
bis(2-Chloroethyl)ether	U	U		10
2-Chlorophenol	81X	U		10
1,3-Dichlorobenzene	U	U		10
1,4-Dichlorobenzene	33X	U		10
Benzyl alcohol	U	U		10
1,2-Dichlorobenzene	U	U		10
2-Methylphenol	U	U		10
bis(2-Chloroisopropyl)ether	U	U		10
4-Methylphenol	U	U		10
N-Nitroso-di-n-propylamine	43X	U		10
Hexachloroethane	U	U		10
Nitrobenzene	U	U		10
Isophorone	U	U		10
2-Nitrophenol	U	U		10
2,4-Dimethylphenol	U	U		10
Benzoic acid	U	U		50
bis(2-Chloroethoxy)methane	U	U		10
2,4-Dichlorophenol	.7J	U		10
1,2,4-Trichlorobenzene	46X	U		10
Naphthalene	U	U		10
4-Chloroaniline	U	U		10
Hexachlorobutadiene	U	U		10
4-Chloro-3-methylphenol	87X	U		10
2-Methylnaphthalene	U	U		10
Hexachlorocyclopentadiene	U	U		10
2,4,6-Trichlorophenol	U	U		10
2,4,5-Trichlorophenol	U	U		50
2-Chloronaphthalene	U	U		10
2-Nitroaniline	U	U		50
Dimethylphthalate	U	U		10
Acenaphthylene	.2J	U		10
2,6-Dinitrotoluene	U	U		10
3-Nitroaniline	U	U		50
Date Received	09/06/00	09/06/00		
Date Extracted	09/07/00	09/07/00		
Date Analyzed	09/08/00	09/08/00		

See Appendix for qualifier definitions
Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE SV-1.1
7000-1926A
ROUX ASSOCIATES-MA
TCL SEMI-VOLATILE ORGANICS

All values are ug/L.

Client Sample I.D.	SW-09 MSD	FIELD BLANK		Quant. Limits with no Dilution
Lab Sample I.D.	001926A-09 MSD	001926A-10		
Method Blank I.D.	SBLKKQ	SBLKKQ		
Quant. Factor	1.22	1.32		
Acenaphthene	39X	U		10
2,4-Dinitrophenol	U	U		50
4-Nitrophenol	45JX	U		50
Dibenzofuran	U	U		10
2,4-Dinitrotoluene	51X	U		10
Diethylphthalate	.4J	U		10
4-Chlorophenyl-phenylether	U	U		10
Fluorene	U	U		10
4-Nitroaniline	U	U		50
4,6-Dinitro-2-methylphenol	U	U		50
N-Nitrosodiphenylamine (1)	U	U		10
4-Bromophenyl-phenylether	U	U		10
Hexachlorobenzene	U	U		10
Pentachlorophenol	120EX	U		50
Phenanthrene	U	U		10
Anthracene	U	U		10
Di-n-butylphthalate	U	U		10
Fluoranthene	U	U		10
Pyrene	46X	U		10
Butylbenzylphthalate	U	U		10
3,3'-Dichlorobenzidine	U	U		20
Benzo(a)anthracene	U	U		10
Chrysene	U	U		10
bis(2-Ethylhexyl)phthalate	.7JB	U		10
Di-n-octylphthalate	U	U		10
Benzo(b)fluoranthene	U	U		10
Benzo(k)fluoranthene	U	U		10
Benzo(a)pyrene	U	U		10
Indeno(1,2,3-cd)pyrene	U	U		10
Dibenzo(a,h)anthracene	U	U		10
Benzo(g,h,i)perylene	U	U		10
Date Received	09/06/00	09/06/00		
Date Extracted	09/07/00	09/07/00		
Date Analyzed	09/08/00	09/08/00		

See Appendix for qualifier definitions
Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

Aqueous

TABLE SV-2.0
7000-1926A
ROUX ASSOCIATES-MA
MISCELLANEOUS SEMI-VOLATILE ORGANICS

All values are ug/L.

Client Sample I.D.	Method Blank	SW-01	SW-02	Quant. Limits with no Dilution
Lab Sample I.D.	SBLKKQ	001926A-01	001926A-02	
Method Blank I.D.	SBLKKQ	SBLKKQ	SBLKKQ	
Quant. Factor	1.00	1.09	1.11	
4-Methylphenol	U	U	U	10
Naphthalene	U	U	U	10
2-Methylnaphthalene	U	U	U	10
Acenaphthylene	U	U	U	10
Acenaphthene	U	U	U	10
Fluorene	U	U	U	10
Diethylphthalate	U	U	U	10
Phenanthrene	U	U	U	10
Anthracene	U	U	U	10
Fluoranthene	U	U	U	10
Pyrene	U	U	U	10
Benzo(a)anthracene	U	U	U	10
Chrysene	U	U	U	10
bis(2-Ethylhexyl)phthalate	1J	1JB	1JB	10
Benzo(b)fluoranthene	U	U	U	10
Benzo(k)fluoranthene	U	U	U	10
Benzo(a)pyrene	U	U	U	10
Indeno(1,2,3-cd)pyrene	U	U	U	10
Dibenzo(a,h)anthracene	U	U	U	10
Benzo(g,h,i)perylene	U	U	U	10
Date Received		09/06/00	09/06/00	
Date Extracted	09/07/00	09/07/00	09/07/00	
Date Analyzed	09/08/00	09/08/00	09/08/00	

See Appendix for qualifier definitions
Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

Aqueous

TABLE SV-2.1
7000-1926A
ROUX ASSOCIATES-MA
MISCELLANEOUS SEMI-VOLATILE ORGANICS

All values are ug/L.

Client Sample I.D.	SW-03	SW-70	SW-05	Quant. Limits with no Dilution
Lab Sample I.D.	001926A-03	001926A-04	001926A-05	
Method Blank I.D.	SBLKKQ	SBLKKQ	SBLKKQ	
Quant. Factor	1.11	1.20	1.20	
4-Methylphenol	U	U	U	10
Naphthalene	U	U	U	10
2-Methylnaphthalene	U	U	U	10
Acenaphthylene	U	U	U	10
Acenaphthene	U	U	U	10
Fluorene	U	U	U	10
Diethylphthalate	U	U	U	10
Phenanthrene	U	U	U	10
Anthracene	U	U	U	10
Fluoranthene	U	.1J	U	10
Pyrene	U	U	U	10
Benzo(a)anthracene	U	U	U	10
Chrysene	U	U	U	10
bis(2-Ethylhexyl)phthalate	1JB	2JB	2JB	10
Benzo(b)fluoranthene	U	U	U	10
Benzo(k)fluoranthene	U	U	U	10
Benzo(a)pyrene	U	U	U	10
Indeno(1,2,3-cd)pyrene	U	U	U	10
Dibenzo(a,h)anthracene	U	U	U	10
Benzo(g,h,i)perylene	U	U	U	10
Date Received	09/06/00	09/06/00	09/06/00	
Date Extracted	09/07/00	09/07/00	09/07/00	
Date Analyzed	09/08/00	09/08/00	09/08/00	

See Appendix for qualifier definitions
Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

Aqueous

TABLE SV-2.2
7000-1926A
ROUX ASSOCIATES-MA
MISCELLANEOUS SEMI-VOLATILE ORGANICS

All values are ug/L.

Client Sample I.D.	SW-06	SW-07	SW-08	Quant. Limits with no Dilution
Lab Sample I.D.	001926A-06	001926A-07	001926A-08	
Method Blank I.D.	SBLKKQ	SBLKKQ	SBLKKQ	
Quant. Factor	1.59	1.18	1.39	
4-Methylphenol	U	U	U	10
Naphthalene	U	U	U	10
2-Methylnaphthalene	U	U	U	10
Acenaphthylene	U	U	U	10
Acenaphthene	U	U	U	10
Fluorene	U	U	U	10
Diethylphthalate	U	U	U	10
Phenanthrene	.3J	U	U	10
Anthracene	U	U	U	10
Fluoranthene	1J	U	U	10
Pyrene	.8J	U	U	10
Benzo(a)anthracene	U	U	U	10
Chrysene	.6J	U	U	10
bis(2-Ethylhexyl)phthalate	1JB	1JB	2JB	10
Benzo(b)fluoranthene	U	U	U	10
Benzo(k)fluoranthene	U	U	U	10
Benzo(a)pyrene	U	U	U	10
Indeno(1,2,3-cd)pyrene	U	U	U	10
Dibenzo(a,h)anthracene	U	U	U	10
Benzo(g,h,i)perylene	U	U	U	10
Date Received	09/06/00	09/06/00	09/06/00	
Date Extracted	09/07/00	09/07/00	09/07/00	
Date Analyzed	09/08/00	09/08/00	09/08/00	

See Appendix for qualifier definitions
Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

Aqueous

TABLE AS-1.0
7000-1926A
ROUX ASSOCIATES-MA
MISCELLANEOUS ATOMIC SPECTROSCOPY (Dissolved)

All values are ug/L.

Client Sample I.D.	SW-01	SW-02	SW-03	SW-70
Lab Sample I.D.	001926A-01	001926A-02	001926A-03	001926A-04
Arsenic	2.0U	2.0U	5.7B	2.0U
Chromium	NR	NR	NR	NR
Lead	NR	NR	NR	NR
Mercury	NR	NR	NR	NR

See Appendix for qualifier definitions

Aqueous

TABLE AS-1.1
7000-1926A
ROUX ASSOCIATES-MA
MISCELLANEOUS ATOMIC SPECTROSCOPY (Dissolved)

All values are ug/L.

Client Sample I.D.	SW-05	SW-06	SW-07	SW-08
Lab Sample I.D.	001926A-05	001926A-06	001926A-07	001926A-08
Arsenic	20.8	7.0B	2.0U	2.0U
Chromium	NR	NR	NR	NR
Lead	NR	NR	NR	NR
Mercury	NR	NR	NR	NR

See Appendix for qualifier definitions

Aqueous

TABLE AS-1.2
7000-1926A
ROUX ASSOCIATES-MA
MISCELLANEOUS ATOMIC SPECTROSCOPY (Dissolved)

All values are ug/L.

Client Sample I.D.	SW-09	SW-09 D	SW-09 S	FIELD BLANK
Lab Sample I.D.	001926A-09	001926A-09D	001926A-09S	001926A-10
Arsenic	2.0B	2.8B	41.9	2.0U
Chromium	NR	NR	NR	NR
Lead	NR	NR	NR	NR
Mercury	NR	NR	NR	NR

See Appendix for qualifier definitions

Aqueous

TABLE AS-1.3
7000-1926A
ROUX ASSOCIATES-MA
MISCELLANEOUS ATOMIC SPECTROSCOPY (Total)

All values are ug/L.

Client Sample I.D.	SW-01	SW-02	SW-03	SW-70
Lab Sample I.D.	001926A-01	001926A-02	001926A-03	001926A-04
Arsenic	2.8B	2.0U	5.8B	2.0U
Chromium	1.5B	1.0U	1.0U	1.0U
Lead	1.3B	12.5	1.3U	1.9B
Mercury	0.10U	0.10U	0.10U	0.10U

See Appendix for qualifier definitions

Aqueous

TABLE AS-1.4
7000-1926A
ROUX ASSOCIATES-MA
MISCELLANEOUS ATOMIC SPECTROSCOPY (Total)

All values are ug/L.

Client Sample I.D.	SW-05	SW-06	SW-07	SW-08
Lab Sample I.D.	001926A-05	001926A-06	001926A-07	001926A-08
Arsenic	19.8	6.8B	2.0U	2.0U
Chromium	3.3B	1.0U	1.0U	3.2B
Lead	9.1	1.9B	1.3U	3.6
Mercury	0.10U	0.10U	0.10U	0.10U

See Appendix for qualifier definitions

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Aqueous

TABLE AS-1.5
7000-1926A
ROUX ASSOCIATES-MA
TAL METALS (Total)

All values are ug/L.

Client Sample I.D.	SW-09	SW-09 D	SW-09 S	FIELD BLANK
Lab Sample I.D.	001926A-09	001926A-09D	001926A-09S	001926A-10
Aluminum	102.B	106.B	2000	10.5U
Antimony	2.1U	2.1U	483.	2.1U
Arsenic	22.0	22.7	62.2	2.0U
Barium	30.4B	31.0B	1880	4.9B
Beryllium	0.20U	0.20U	49.3	0.20U
Cadmium	0.40U	0.40U	4.8B	0.40U
Calcium	42000	43100	NR	20000
Chromium	4.2B	4.8B	190.	1.0U
Cobalt	1.4B	1.7B	462.	0.50U
Copper	9.9B	16.7B	241.	2.4B
Iron	2400	2440	3340	68.8B
Lead	2.8B	2.4B	20.7	1.3U
Magnesium	6230	6400	NR	2960B
Manganese	426.	435.	889.	11.8B
Mercury	0.10U	0.10U	1.0	0.10U
Nickel	1.4B	2.0B	464.	1.0U
Potassium	6200	6300	NR	676.B
Selenium	3.4B	3.4U	12.2	4.0B
Silver	1.0U	1.0U	46.6	1.0U
Sodium	40700	41200	NR	7790
Thallium	3.8U	4.0B	46.9	3.8U
Vanadium	1.0U	1.0U	469.	1.0U
Zinc	146.	151.	612.	9.8B

See Appendix for qualifier definitions

1

WET CHEM ANALYSIS DATA SHEET

SAMPLE NO.

SW-01

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 1926A SAS No.: _____ SDG No.: A1926

Matrix (soil/water): WATER Lab Sample ID: 001926A-01

% Solids: 0 Date Received: 09/06/00

CAS No.	Analyte	Concentration	C	Units	Q	M
	TSS	5.0	U	mg/L		G

Comments:

FORM I - WC

1

WET CHEM ANALYSIS DATA SHEET

SAMPLE NO.

SW-02

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 1926A SAS No.: _____ SDG No.: A1926

Matrix (soil/water): WATER Lab Sample ID: 001926A-02

% Solids: 0 Date Received: 09/06/00

CAS No.	Analyte	Concentration	C	Units	Q	M
	TSS	5.0	U	mg/L		G

Comments:

1

WET CHEM ANALYSIS DATA SHEET

SAMPLE NO.

SW-03

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 1926A SAS No.: _____ SDG No.: A1926

Matrix (soil/water): WATER Lab Sample ID: 001926A-03

% Solids: 0 Date Received: 09/06/00

CAS No.	Analyte	Concentration	C	Units	Q	M
	TSS	5.0	U	mg/L		G

Comments:

1

WET CHEM ANALYSIS DATA SHEET

SAMPLE NO.

SW-70

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 1926A SAS No.: _____ SDG No.: A1926

Matrix (soil/water): WATER Lab Sample ID: 001926A-04

% Solids: 0 Date Received: 09/06/00

CAS No.	Analyte	Concentration	C	Units	Q	M
	TSS	12.0		mg/L		G

Comments:

FORM I - WC

1

WET CHEM ANALYSIS DATA SHEET

SAMPLE NO.

SW-05

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 1926A SAS No.: _____ SDG No.: A1926

Matrix (soil/water): WATER Lab Sample ID: 001926A-05

% Solids: 0 Date Received: 09/06/00

CAS No.	Analyte	Concentration	C	Units	Q	M
	TSS	12.0		mg/L		G

Comments:

FORM I - WC

1

WET CHEM ANALYSIS DATA SHEET

SAMPLE NO.

SW-06

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 1926A SAS No.: _____ SDG No.: A1926

Matrix (soil/water): WATER Lab Sample ID: 001926A-06

% Solids: 0 Date Received: 09/06/00

CAS No.	Analyte	Concentration	C	Units	Q	M
	TSS	5.0	U	mg/L		G

Comments:

FORM I - WC

1

WET CHEM ANALYSIS DATA SHEET

SAMPLE NO.

SW-07

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 1926A SAS No.: _____ SDG No.: A1926

Matrix (soil/water): WATER Lab Sample ID: 001926A-07

% Solids: 0 Date Received: 09/06/00

CAS No.	Analyte	Concentration	C	Units	Q	M
	TSS	5.0	U	mg/L		G

Comments:

FORM I - WC

1

WET CHEM ANALYSIS DATA SHEET

SAMPLE NO.

SW-08

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 1926A SAS No.: _____ SDG No.: A1926

Matrix (soil/water): WATER Lab Sample ID: 001926A-08

% Solids: 0 Date Received: 09/06/00

CAS No.	Analyte	Concentration	C	Units	Q	M
	TSS	5.0	U	mg/L		G

Comments:

FORM I - WC

1

WET CHEM ANALYSIS DATA SHEET

SAMPLE NO.

SW-09

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 1926A SAS No.: _____ SDG No.: A1926

Matrix (soil/water): WATER Lab Sample ID: 001926A-09

% Solids: 0 Date Received: 09/06/00

CAS No.	Analyte	Concentration	C	Units	Q	M
	TSS	8.5		mg/L		G

Comments:

FORM I - WC

STL
Committed To Your Success

ORGANICS APPENDIX

U - Indicates that the compound was analyzed for but not detected.

J - Indicates that the compound was analyzed for and determined to be present in the sample. The mass spectrum of the compound meets the identification criteria of the method. The concentration listed is an estimated value, which is less than the specified minimum detection limit but is greater than zero.

B - This flag is used when the analyte is found in the blanks as well as the sample. It indicates possible sample contamination and warns the data user to use caution when applying the results of this analyte.

N - Indicates that the compound was analyzed for but not requested as an analyte. Value will not be listed on tabular result sheet.

S - Estimated due to surrogate outliers.

X - Matrix spike compound.

(1) - Cannot be separated.

(2) - Decomposes to azobenzene. Measured and calibrated as azobenzene.

A - This flag indicates that a TIC is a suspected aldol condensation product.

E - Indicates that it exceeds calibration curve range.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor.

C - Confirmed by GC/MS.

T - Compound present in TCLP blank.

P - This flag is used for a pesticide/aroclor target analyte when there is a greater than 25 percent difference for detected concentrations between the two GC columns (see Form X).

Committed To Your Success

INORGANICS APPENDIX

C - Concentration qualifiers

U - Indicates analyte was not detected at method reporting limit.

B - Indicates analyte result between IDL and contract required detection limit (CRDL)

Q - QC qualifiers

E - Reported value is estimated because of the presence of interference

M - Duplicate injection precision not met

N - Spiked sample recovery not within control limits

S - The reported value was determined by the method of standard additions (MSA)

W - Post-digest spike recovery furnace analysis was out of 85-115 percent control limit, while sample absorbance was less than 50 percent of spike absorbance

* - Duplicate analysis not within control limit

+ - Correlation coefficient for MSA is less than 0.995

M - Method codes

P - ICP

A - Flame AA

F - Furnace AA

CV - Cold vapor AA (manual)

C - Cyanide

NR - Not Required

NC - Not Calculated as per protocols

STATE CERTIFICATIONS

In some instances it may be necessary for environmental data to be reported to a regulatory authority with reference to a certified laboratory. For your convenience, the laboratory identification numbers for the STL-Connecticut laboratory are provided in the following table. Many states certify laboratories for specific parameters or tests within a category (i.e. method 325.2 for wastewater). The information in the following table indicates the lab is certified in a general category of testing such as drinking water or wastewater analysis. The laboratory should be contacted directly if parameter-specific certification information is required.

STL-Connecticut
Certification Summary (as of April 2000)

State	Regulatory Agency	Certification	Lab Number
Connecticut	Department of Health Services	Drinking Water, Wastewater	PH-0497
Maine	Department of Health and Environmental Services	Drinking Water, Wastewater/Solid, Hazardous Waste	CT023
Massachusetts	Department of Environmental Protection	Potable/Non-Potable Water	CT023
New Hampshire	Department of Environmental Services	Drinking Water, Wastewater	2528
New Jersey	Department of Environmental Protection	Drinking Water, Wastewater	46410
New York	Department of Health	CLP, Drinking Water, Wastewater, Solid/ Hazardous Waste	10602
North Carolina	Division of Environmental Management	Wastewater	388
Rhode Island	Department of Health	Chemistry...Non-Potable Water and Wastewater	A43
Washington	Department of Ecology	Wastewater/Hazardous Waste	C231
Wisconsin	Department of Natural Resources	Wastewater	998355710

7000-1926A
ROUX ASSOCIATES-MA
SAMPLE SUMMARY

CLIENT ID	LAB ID	MATRIX	DATE COLLECTED	DATE RECEIVED
SW-01	001926A-01	WATER	09/04/00	09/06/00
SW-02	001926A-02	WATER	09/04/00	09/06/00
SW-03	001926A-03	WATER	09/04/00	09/06/00
SW-70	001926A-04	WATER	09/04/00	09/06/00
SW-05	001926A-05	WATER	09/04/00	09/06/00
SW-06	001926A-06	WATER	09/04/00	09/06/00
SW-07	001926A-07	WATER	09/04/00	09/06/00
SW-08	001926A-08	WATER	09/04/00	09/06/00
SW-09	001926A-09	WATER	09/04/00	09/06/00
SW-09	001926A-09D	WATER	09/04/00	09/06/00
SW-09	001926A-09MS	WATER	09/04/00	09/06/00
SW-09	001926A-09MSD	WATER	09/04/00	09/06/00
W-09	001926A-09S	WATER	09/04/00	09/06/00
FIELD BLANK	001926A-10	WATER	09/04/00	09/06/00

STL CT ANALYTICAL SUMMARY

Client ID: FIELD BLANK, SW-01, SW-02, SW-03, SW-05, SW-06, SW-07, SW-08, SW-09, SW-70
Job Number: 7000-1926A

Date: 9/27/100

Qty	Matrix	Analysis	Description
8	WATER	AS-SW846	Arsenic
12	WATER	AS-SW846-D	Arsenic (Dissolved)
8	WATER	BNA-8270C-MISC	Miscellaneous Semi-V
4	WATER	BNA-8270C-TCL	TCL Semi-Volatile Or
8	WATER	CR-SW846	Chromium
8	WATER	HG-SW846	Mercury
8	WATER	MET-PREP-ICAP	Metals ICAP Prep
12	WATER	MET-PREP-ICAP-D	Metals ICAP Prep (Di
4	WATER	MET-SW846-TAL	TAL Metals
8	WATER	PB-SW846	Lead
10	WATER	TSS-160.2	Total Suspended Soli

7000-1926A

ROUX CHAIN OF CUSTODY

№ 04805 Y

ROUX ASSOCIATES, INC.
Environmental Consulting & Management
~~1377 MOTOR PARKWAY~~ 25 CORPORATE DR. STE 230
~~ISLANDIA, NEW YORK 11788~~ BURLINGTON, MA 01803
~~(516) 232-2600 FAX (516) 232-9898~~ 781-270-6600 781-270-9066

PROJECT NAME: ISRT

PROJECT NUMBER: 06626M

PROJECT LOCATION: WOBURN, MA

PROJECT MANAGER: Larry McTiernan

SAMPLER(S): Chris Milone

ANALYSES

SAMPLE DESIGNATION / LOCATION		DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	TSS	DISSOLVED ARSENIC	TOTAL - Arsenic, Chromium Lead, Mercury	TAL METALS	PAH, Diethylphthalate, 4-Methylphenol, Bis-2-Ethylhexylphthalate	TCL SVOCs	TOTAL BOTTLES	NOTES
SW-01	01	9/4/2000	1055	SW	1	1	1		2		5	
SW-02	02		1120		1	1	1		2		5	
SW-03	03		1140		1	1	1		2		5	
~~SW-04D~~		~~VOID~~	~~VOID~~									
SW-70	04		1350		1	1	1		2		5	
SW-05	05		1305		1	1	1		2		5	
SW-06	06		1325		1	1	1		2		5	
SW-07	07		1345		1	1	1		2		5	
SW-08	08		1410		1	1	1		2		5	
SW-09	09		1430		3	3		3		6	15	Triple Volume for MS/MSD

6°

RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N	RECEIVED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N
[signature]	ROUX	9/5/00 CM	1645		[signature]	STL	9/5/00	16:45	
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N	RECEIVED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N
					[signature]	STL-CT 9/6/00 9:20			
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N	RECEIVED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N

DELIVERY METHOD: HAND

ANALYTICAL LABORATORY: STL LABS

COMMENTS: LEVEL — Deliverables for Tier II Data Validation.

Samples collected 9/1 through 9/5/00

CHAINOF.CDR 12AUG98

7000-1926A

ROUX CHAIN OF CUSTODY

№ 04806 Y

ROUX ASSOCIATES, INC.
Environmental Consulting & Management
~~1377 MOTOR PARKWAY~~ 25 CORPORATE DR. STE 230
~~ISLANDIA, NEW YORK 11788~~ BURLINGTON, MA 01803
~~(516) 232-2800 FAX (516) 232-9898~~ 781-270-6600 270-9066

PROJECT NAME: ISRT

PROJECT NUMBER: 06626M

PROJECT LOCATION: WOBURN, MA

PROJECT MANAGER: Larry McTiernan

SAMPLER(S): Chris Milone

ANALYSES

SAMPLE DESIGNATION / LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	TSS	Dissolved Arsenic	Total- Arsenic, chromium Lead, Mercury	TAL METALS	PAH, Diethylphtalate & Methylphenol Bis-2-Ethylhexyl Phthalate	TCL SVOCs	TOTAL BOTTLES	NOTES
Field Blank 10	9/4/2000	1505			1		1		2	4	SW-09 (Bottle/Tubing)

6°

ATTN:

Several jars for SVOCs/PAH were @ 1/2 → 3/4 volume RC 9/6/00

RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N	RECEIVED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N
Christopher J Milone	RWX	9/5/00	1645		Carmen R Cormier	STL	9/5/00	1645	
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N	RECEIVED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N
					[illegible]	STL-CT 9/6/00 9:20			
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N	RECEIVED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N

DELIVERY METHOD: HAND

COMMENTS: LEVEL _ Deliverables for Tier II Data Validation

FedEx

FedEx Tracking Number 818837628528

Form I.D. No. 0200

From

Date 9/5/00

Sender's Name Sample Receiving Phone 978 667-1400

Company STL Billerica

Address 149 Rangeway Road

Dept./Floor/Suite/Room

City N. Billerica State MA ZIP 01862

Your Internal Billing Reference

To

Recipient's Name Sample Receiving Phone 203 921-2140

Company STL Connecticut

Address 128 Long Hill Cross Road

We cannot deliver to P.O. boxes or P.O. ZIP codes

Dept./Floor/Suite/Room

To "HOLD" at FedEx location, print FedEx address here

City Shelton State CT ZIP 06484

8188 3762 8528

4a Express Package Service — Packages up to 150 lbs. Delivery commitment may be later in some areas

- [X] FedEx Priority Overnight — Next business morning
- [ ] FedEx Standard Overnight — Next business afternoon
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations
- [ ] FedEx 2Day* — Second business day
- [ ] FedEx Express Saver* — Third business day

*FedEx Letter Rate not available. Minimum charge: One pound rate

4b Express Freight Service — Packages over 150 lbs. Delivery commitment may be later in some areas

- [ ] FedEx 1Day Freight* — Next business day
- [ ] FedEx 2Day Freight — Second business day
- [ ] FedEx 3Day Freight — Third business day

*Call for Confirmation

5 Packaging — *Declared value limit $500

- [ ] FedEx Letter*
- [ ] FedEx Pak*
- [X] Other Pkg — Includes FedEx Box, FedEx Tube, and customer pkg

6 Special Handling

- [ ] Saturday Delivery — Available for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- [ ] Sunday Delivery — Available for FedEx Priority Overnight to select ZIP codes
- [ ] HOLD Weekday at FedEx Location — Not available with FedEx First Overnight
- [ ] HOLD Saturday at FedEx Location — Available for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods? One box must be checked

- [X] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Yes — Shipper's Declaration not required
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous Goods cannot be shipped in FedEx packaging

- [ ] Cargo Aircraft Only

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below

- [ ] Sender — Acct. No. in Section 1 will be billed
- [X] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check
- [ ] Obtain Recip. Acct. No.

Total Packages	Total Weight	Total Declared Value†	Total Charges
1	51	$ .00	Credit Card Auth

†Our liability is limited to $100 unless you declare a higher value. See back for details.

8 Release Signature Sign to authorize delivery without obtaining signature

FedEx

FedEx Tracking Number 818837628506

Form I.D. No. 0200

From

Date 9/5/00

Sender's Name Sample Receiving Phone 978 667-1400

Company STL Billerica

Address 149 Rangeway Road

Dept./Floor/Suite/Room

City N. Billerica State MA ZIP 01862

Your Internal Billing Reference

To

Recipient's Name Sample Receiving Phone 203 921-2140

Company STL Connecticut

Address 128 Long Hill Cross Road

We cannot deliver to P.O. boxes or P.O. ZIP codes

Dept./Floor/Suite/Room

To "HOLD" at FedEx location, print FedEx address here

City Shelton State CT ZIP 06484

8188 3762 8506

4a Express Package Service — Packages up to 150 lbs. Delivery commitment may be later in some areas

- [X] FedEx Priority Overnight — Next business morning
- [ ] FedEx Standard Overnight — Next business afternoon
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations
- [ ] FedEx 2Day* — Second business day
- [ ] FedEx Express Saver* — Third business day

*FedEx Letter Rate not available. Minimum charge: One pound rate

4b Express Freight Service — Packages over 150 lbs. Delivery commitment may be later in some areas

- [ ] FedEx 1Day Freight* — Next business day
- [ ] FedEx 2Day Freight — Second business day
- [ ] FedEx 3Day Freight — Third business day

*Call for Confirmation

5 Packaging — *Declared value limit $500

- [ ] FedEx Letter*
- [ ] FedEx Pak*
- [X] Other Pkg — Includes FedEx Box, FedEx Tube, and customer pkg

6 Special Handling

- [ ] Saturday Delivery — Available for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- [ ] Sunday Delivery — Available for FedEx Priority Overnight to select ZIP codes
- [ ] HOLD Weekday at FedEx Location — Not available with FedEx First Overnight
- [ ] HOLD Saturday at FedEx Location — Available for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods? One box must be checked

- [X] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Yes — Shipper's Declaration not required
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous Goods cannot be shipped in FedEx packaging

- [ ] Cargo Aircraft Only

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below

- [ ] Sender — Acct. No. in Section 1 will be billed
- [X] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check
- [ ] Obtain Recip. Acct. No.

Total Packages	Total Weight	Total Declared Value†	Total Charges
1	48 lbs	$ .00	Credit Card Auth

†Our liability is limited to $100 unless you declare a higher value. See back for details.

8 Release Signature Sign to authorize delivery without obtaining signature

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

Questions? Call 1·800·Go·FedEx (800 463 3339)

Visit our Web site at www.fedex.com

GBFE 11/99

360

0.052

FedEx FedEx Tracking Number 818837628517 Form ID No. 0200

From 9/5/00 [redacted]

Sender's Name Sample Receiving Phone 978 667-1400

Company STL Billerica

Address 141 Kangaway Road Dept./Floor/Suite/Room

City N. Billerica State MA ZIP 01862

Your Internal Billing Reference

To Recipient's Name Sample Receiving Phone 203 929-8140

Company STL Connecticut

Address 122 Long Hill Cross Road
We cannot deliver to PO boxes or PO ZIP codes. Dept./Floor/Suite/Room

To "HOLD" at FedEx location, print FedEx address here

City Shelton State CT ZIP 06484

818837628517

4a Express Package Service — *Packages up to 150 lbs.* Delivery commitment may be later in some areas

- [x] FedEx Priority Overnight — Next business morning
- [ ] FedEx Standard Overnight* — Next business afternoon
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations
- [ ] FedEx 2Day* — Second business day
- [ ] FedEx Express Saver* — Third business day

*FedEx Letter Rate not available. Minimum charge: One-pound rate

4b Express Freight Service — *Packages over 150 lbs.* Delivery commitments may be later in some areas

- [ ] FedEx 1Day Freight* — Next business day
- [ ] FedEx 2Day Freight — Second business day
- [ ] FedEx 3Day Freight — Third business day

*Call for Confirmation

5 Packaging *Declared value limit $500

- [ ] FedEx Letter*
- [ ] FedEx Pak*
- [x] Other Pkg* — Includes FedEx Box, FedEx Tube, and customer pkg

6 Special Handling

- [ ] Saturday Delivery — Available for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- [ ] Sunday Delivery — Available for FedEx Priority Overnight to select ZIP codes
- [ ] HOLD Weekday at FedEx Location — Not available with FedEx First Overnight
- [ ] HOLD Saturday at FedEx Location — Available for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods? One box must be checked.

- [x] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Yes — Shipper's Declaration not required
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous Goods cannot be shipped in FedEx packaging

- [ ] Cargo Aircraft Only*

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below.

- [ ] Sender — Acct. No. in Section 1 will be billed
- [x] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check
- [ ] Obtain Recip Acct. No.

Total Packages	Total Weight	Total Declared Value†	Total Charges
1	53 lbs	$ .00	Credit Card Auth

†Our liability is limited to $100 unless you declare a higher value. See back for details.

FedEx FedEx Tracking Number 818837628491 Form ID No. 0200

From Date 9/5/00 [redacted]

Sender's Name Sample Receiving Phone 978 667-1400

Company STL Billerica

Address 141 Kangaway Road Dept./Floor/Suite/Room

City N Billerica State MA ZIP 01862

Your Internal Billing Reference

To Recipient's Name Sample Receiving Phone 203 929-8140

Company STL Connecticut

Address 122 Long Hill Cross Road
We cannot deliver to PO boxes or PO ZIP codes. Dept./Floor/Suite/Room

To "HOLD" at FedEx location, print FedEx address here

City Shelton State CT ZIP 06484

818837628491

4a Express Package Service — *Packages up to 150 lbs.* Delivery commitment may be later in some areas

- [x] FedEx Priority Overnight — Next business morning
- [ ] FedEx Standard Overnight — Next business afternoon
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations
- [ ] FedEx 2Day* — Second business day
- [ ] FedEx Express Saver* — Third business day

*FedEx Letter Rate not available. Minimum charge: One-pound rate

4b Express Freight Service — *Packages over 150 lbs.* Delivery commitments may be later in some areas

- [ ] FedEx 1Day Freight* — Next business day
- [ ] FedEx 2Day Freight — Second business day
- [x] FedEx 3Day Freight — Third business day

*Call for Confirmation

5 Packaging *Declared value limit $500

- [ ] FedEx Letter*
- [ ] FedEx Pak*
- [x] Other Pkg. — Includes FedEx Box, FedEx Tube, and customer pkg

6 Special Handling

- [ ] Saturday Delivery — Available for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- [ ] Sunday Delivery — Available for FedEx Priority Overnight to select ZIP codes
- [ ] HOLD Weekday at FedEx Location — Not available with FedEx First Overnight
- [ ] HOLD Saturday at FedEx Location — Available for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods? One box must be checked.

- [x] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Yes — Shipper's Declaration not required
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous Goods cannot be shipped in FedEx packaging

- [ ] Cargo Aircraft Only

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below.

- [ ] Sender — Acct. No. in Section 1 will be billed
- [x] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check
- [ ] Obtain Recip Acct. No.

Total Packages	Total Weight	Total Declared Value†	Total Charges
1	47 lbs	$ .00	Credit Card Auth

†Our liability is limited to $100 unless you declare a higher value. See back for details.

8 Release Signature Sign to authorize delivery without obtaining signature

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

Questions? Call 1·800·Go·FedEx (800 463 3339)

Visit our Web site at www.fedex.com

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818837628491

Severn T· · Connecticut
Internal Chain-of-Custody

Client: Roux

STL Job #: 7060-1926A

Custody Seal: present / absent
Tamper Evident /Non Tamper Evident
intact / not intact

Airbill# FC

Field C-O-C: present / absent

Date Received: 9/6/10

Sample #s: 01-10

Locations: 97

Laboratory Sample #	Relinquished by	Accepted by	Date	Time	Reason	Relinquished by	Accepted by	Date	Time
1-9	[illegible]	[illegible]	9/6	11:5[illegible]	TSJ	[illegible]	[illegible]	9/6	
1-10	[illegible]	[illegible]	9/7	6:30	BNA	used			
9-10	[illegible]	[illegible]	9/8	[illegible]	TSS	[illegible]	[illegible]	9/8	
01-10	[illegible]	C C[illegible]	09/10	11:00	H/S				

STL Form# SMF00504.CT

STL GC-GC/MS Extract Chain of Custody

Fraction: (BNA) Pesticide-PCB / Herbicide / O/P Pesticide / DRO / Other (Circle one)

CLIENT: Roux

JOB NO: 1926A

SAMPLE IN (Extractions)					SAMPLE IN (Extractions)				
Sample(s)	Date	Time	Sign.	Location	Sample(s)	Date	Time	Sign.	Location
1-9, 9ms, 9msD	9/8/00	9:30	JNL	29					
10	9/8/00	9:30	JNL	29					

SAMPLE OUT					SAMPLE IN			
Sample(s)	Date	Time	Code	Sign.	Date	Time	Location	Sign.
01-10	09/08	1130	AN	EM	09/08/00	1230	29	EM

Codes: SC = Screening AN = Analysis

Verified By: [signature] Date: 9/12/00

Lab Form: SMF01201.CT

Severn Trent Laboratories
128 Long Hill Cross
Shelton, CT 06484
Tel (203) 929-8140
Fax (203)

Committed To *Your* Success

CHAIN OF CUSTODY
ATOMIC SPECTROSCOPY DEPARTMENT

Job Number 7000-1926A Sample Numbers 1-10 (T & F)

WATER - SOIL - SLUDGE - EPTOX/TCLP

I confirm that I have performed the preparation below following SOP guidelines and authorize the release of this preparation:

Sample Prep			
	Darilyn Colon	9/13/00	ICP/FLME
			FURN
	Colleen Coelho	9/20/00	MERCURY
	Chemist	Date(s)	

I confirm that I have performed the analysis below following SOP guidelines and authorize the release of all associated data:

Analysis			
	Nestor Rotundo	9/18/00	ICP
			FLAME
			FURN
	Colleen Coelho	9/22/00	MERCURY
	Chemist	Date(s)	

I have reviewed and authorize the release of this job:

Complete [signature] 9/26/00
Supervisor Date

Batch Assignment _____

IEA / CT
LABORATORY CHRONICLE

SAMPLE PREPARATION AND ANALYSIS SUMMARY
INORGANIC ANALYSIS

JOB #: **7000-1926A**

SAMPLE ID	MATRIX	LIST REQUESTED	DATE RECEIVED	DATE DIGESTED	DATE ANALYZED
SW-01	WATER	AS-SW846	09/06/00	9/13/00	9/14/00
SW-01	WATER	AS-SW846-D	09/06/00	↓	↓
SW-01	WATER	CR-SW846	09/06/00	↓	↓
SW-01	WATER	HG-SW846	09/06/00	9/20/00	9/22/00
SW-01	WATER	PB-SW846	09/06/00	9/13/00	9/14/00
SW-02	WATER	AS-SW846	09/06/00	↓	↓
SW-02	WATER	AS-SW846-D	09/06/00	↓	↓
SW-02	WATER	CR-SW846	09/06/00	↓	↓
SW-02	WATER	HG-SW846	09/06/00	9/20/00	9/22/00
SW-02	WATER	PB-SW846	09/06/00	9/13/00	9/14/00
SW-03	WATER	AS-SW846	09/06/00	↓	↓
SW-03	WATER	AS-SW846-D	09/06/00	↓	↓
SW-03	WATER	CR-SW846	09/06/00	↓	↓
SW-03	WATER	HG-SW846	09/06/00	9/20/00	9/22/00
SW-03	WATER	PB-SW846	09/06/00	9/13/00	9/14/00
SW-70	WATER	AS-SW846	09/06/00	↓	↓
SW-70	WATER	AS-SW846-D	09/06/00	↓	↓
SW-70	WATER	CR-SW846	09/06/00	↓	↓
SW-70	WATER	HG-SW846	09/06/00	9/20/00	9/22/00
SW-70	WATER	PB-SW846	09/06/00	9/13/00	9/14/00
SW-05	WATER	AS-SW846	09/06/00	↓	↓
SW-05	WATER	AS-SW846-D	09/06/00	↓	↓

Section Supervisor (signature) [signature]

Review & Approval (printed name) D. [illegible]

(Date) 9/26/00

QC Supervisor (signature) _____

Review & Approval (printed name) _____

(Date) __/__/__

IEA / CT
LABORATORY CHRONICLE

SAMPLE PREPARATION AND ANALYSIS SUMMARY
INORGANIC ANALYSIS

JOB #: 7000-1926A

SAMPLE ID	MATRIX	LIST REQUESTED	DATE RECEIVED	DATE DIGESTED	DATE ANALYZED
SW-05	WATER	CR-SW846	09/06/00	9/13/00	9/14/00
SW-05	WATER	HG-SW846	09/06/00	9/20/00	9/22/00
SW-05	WATER	PB-SW846	09/06/00	9/13/00	9/14/00
SW-06	WATER	AS-SW846	09/06/00	↓	↓
SW-06	WATER	AS-SW846-D	09/06/00	↓	↓
SW-06	WATER	CR-SW846	09/06/00	↓	↓
SW-06	WATER	HG-SW846	09/06/00	9/20/00	9/22/00
SW-06	WATER	PB-SW846	09/06/00	9/13/00	9/14/00
SW-07	WATER	AS-SW846	09/06/00	↓	↓
SW-07	WATER	AS-SW846-D	09/06/00	↓	↓
SW-07	WATER	CR-SW846	09/06/00	↓	↓
SW-07	WATER	HG-SW846	09/06/00	9/20/00	9/22/00
SW-07	WATER	PB-SW846	09/06/00	9/13/00	9/14/00
SW-08	WATER	AS-SW846	09/06/00	↓	↓
SW-08	WATER	AS-SW846-D	09/06/00	↓	↓
SW-08	WATER	CR-SW846	09/06/00	↓	↓
SW-08	WATER	HG-SW846	09/06/00	9/20/00	9/22/00
SW-08	WATER	PB-SW846	09/06/00	9/13/00	9/14/00
SW-09	WATER	AS-SW846-D	09/06/00	↓	↓
SW-09	WATER	MET-SW846-TAL	09/06/00	↓	↓
FIELD BLANK	WATER	AS-SW846-D	09/06/00	↓	↓
FIELD BLANK	WATER	MET-SW846-TAL	09/06/00	↓	↓

Section Supervisor (signature) [illegible]

Review & Approval (printed name) [illegible]

(Date) 9/20/00

QC Supervisor (signature) _____

Review & Approval (printed name) _____

(Date) ___/___/___

2C
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 1926A SAS No.: _____ SDG No.: A1926

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	S7 (2CP) #	S8 (DCB) #	TOT OUT
01	SBLKKQ	67	73	69	25	36	74			0
02	SBLKKQFMS	93	87	111	36	48	96			0
03	SW-01	70	80	74	29	39	82			0
04	SW-02	68	56	76	26	34	83			0
05	SW-03	69	78	80	28	38	81			0
06	SW-70	69	76	77	29	37	80			0
07	SW-05	58	66	77	28	37	73			0
08	SW-06	64	72	77	36	44	79			0
09	SW-07	78	81	84	33	44	84			0
10	SW-08	67	77	88	31	41	84			0
11	SW-09	64	69	77	28	38	78			0
12	SW-09MS	70	75	65	28	38	80			0
13	SW-09MSD	68	67	71	28	39	79			0
14	FIELD BLANK	74	64	77	32	40	78			0
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		QC LIMITS
S1 (NBZ)	= Nitrobenzene-d5	(35-114)
S2 (FBP)	= 2-Fluorobiphenyl	(43-116)
S3 (TPH)	= Terphenyl-d14	(33-141)
S4 (PHL)	= Phenol-d5	(10-110)
S5 (2FP)	= 2-Fluorophenol	(21-110)
S6 (TBP)	= 2,4,6-Tribromophenol	(10-123)
S7 (2CP)	= 2-Chlorophenol-d4	(-) (advisory)
S8 (DCB)	= 1,2-Dichlorobenzene-d4	(-) (advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FORM II SV-1

3C

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 1926A SAS No.: _____ SDG No.: A1926

Matrix Spike - EPA Sample No.: SW-09

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
Phenol	110	0	32	29	12-110
2-Chlorophenol	110	0	74	67	27-123
1,4-Dichlorobenzene	55	0	29	53	36- 97
N-Nitroso-di-n-prop.(1)	55	0	42	76	41-116
1,2,4-Trichlorobenzene	55	0	42	76	39- 98
4-Chloro-3-methylphenol	110	0	77	70	23- 97
Acenaphthene	55	0	39	71	46-118
4-Nitrophenol	110	0	41	37	10- 80
2,4-Dinitrotoluene	55	0	46	84	24- 96
Pentachlorophenol	110	0	110	100	9-103
Pyrene	55	0	38	69	26-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	120	35	29	0	42	12-110
2-Chlorophenol	120	81	68	2	40	27-123
1,4-Dichlorobenzene	61	33	54	2	28	36- 97
N-Nitroso-di-n-prop.(1)	61	43	70	8	38	41-116
1,2,4-Trichlorobenzene	61	46	75	1	28	39- 98
4-Chloro-3-methylphenol	120	87	72	3	42	23- 97
Acenaphthene	61	39	64	10	31	46-118
4-Nitrophenol	120	45	38	3	50	10- 80
2,4-Dinitrotoluene	61	51	84	0	38	24- 96
Pentachlorophenol	120	120	100	0	50	9-103
Pyrene	61	46	75	8	31	26-127

(1) N-Nitroso-di-n-propylamine

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

RPD: 0 out of 11 outside limits
Spike Recovery: 0 out of 22 outside limits

COMMENTS: _____

3C

WATER SEMIVOLATILE SPIKE/SPIKE DUPLICATE RECOVERY SUMMARY

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 1926A SAS No.: _____ SDG No.: A1926

Matrix Spike - EPA Sample No.: SBLKKQ

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	SPIKE CONCENTRATION (ug/L)	SPIKE % REC #	QC. LIMITS REC.
Phenol	40	0	14	35	24-57
bis(2-Chloroethyl)ether	40	0	31	78	49-133
2-Chlorophenol	40	0	37	92	60-112
1,3-Dichlorobenzene	40	0	30	75	18-143
1,4-Dichlorobenzene	40	0	29	72	21-138
Benzyl alcohol	40	0	32	80	39-117
1,2-Dichlorobenzene	40	0	33	82	21-143
2-Methylphenol	40	0	32	80	49-91
bis(2-Chloroisopropyl)ether	40	0	30	75	54-130
4-Methylphenol	40	0	29	72	48-95
N-Nitroso-di-n-propylamine	40	0	32	80	46-129
Hexachloroethane	40	0	26	65	8-144
Nitrobenzene	40	0	36	90	46-141
Isophorone	40	0	37	92	52-140
2-Nitrophenol	40	0	43	108	69-123
2,4-Dimethylphenol	40	0	39	98	62-121
Benzoic acid	120	0	0	0	0-25
bis(2-Chloroethoxy)methane	40	0	44	110	53-142
2,4-Dichlorophenol	40	0	43	108	66-122
1,2,4-Trichlorobenzene	40	0	32	80	30-142
Naphthalene	40	0	35	88	43-144
4-Chloroaniline	40	0	40	100	48-150
Hexachlorobutadiene	40	0	36	90	5-169
4-Chloro-3-methylphenol	40	0	41	102	63-119
2-Methylnaphthalene	40	0	36	90	37-137
Hexachlorocyclopentadiene	40	0	18	45	1-139
2,4,6-Trichlorophenol	40	0	38	95	70-121
2,4,5-Trichlorophenol	40	0	39	98	71-124
2-Chloronaphthalene	40	0	48	120	52-163
2-Nitroaniline	40	0	39	98	60-139

Column to be used to flag recovery with an asterisk

* Values outside of QC limits.

Spike Recovery: 0 out of 65 outside limits

COMMENTS: _____

3C

WATER SEMIVOLATILE SPIKE/SPIKE DUPLICATE RECOVERY SUMMARY

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 1926A SAS No.: _____ SDG No.: A1926

Matrix Spike - EPA Sample No.: SBLKKQ

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	SPIKE CONCENTRATION (ug/L)	SPIKE % REC #	QC. LIMITS REC.
Dimethylphthalate	40	0	39	98	64-137
Acenaphthylene	40	0	35	88	52-132
2,6-Dinitrotoluene	40	0	42	105	60-142
3-Nitroaniline	40	0	45	112	65-162
Acenaphthene	40	0	37	92	56-144
2,4-Dinitrophenol	40	0	49	122	70-139
4-Nitrophenol	40	0	18	45	21-65
Dibenzofuran	40	0	40	100	57-136
2,4-Dinitrotoluene	40	0	41	102	57-131
Diethylphthalate	40	0	35	88	62-132
4-Chlorophenyl-phenylether	40	0	37	92	55-136
Fluorene	40	0	37	92	59-131
4-Nitroaniline	40	0	48	120	67-155
4,6-Dinitro-2-methylphenol	40	0	55	138	77-164
N-Nitrosodiphenylamine (1)	40	0	45	112	67-149
4-Bromophenyl-phenylether	40	0	37	92	57-150
Hexachlorobenzene	40	0	45	112	53-153
Pentachlorophenol	40	0	46	115	63-125
Phenanthrene	40	0	42	105	83-124
Anthracene	40	0	43	108	66-138
Di-n-butylphthalate	40	0	41	102	65-146
Fluoranthene	40	0	42	105	63-145
Pyrene	40	0	49	122	66-152
Butylbenzylphthalate	40	0	48	120	64-158
3,3'-Dichlorobenzidine	40	0	45	112	69-159
Benzo(a)anthracene	40	0	42	105	62-151
Chrysene	40	0	44	110	72-141
bis(2-Ethylhexyl)phthalate	40	1	41	100	63-148
Di-n-octylphthalate	40	0	46	115	65-154
Benzo(b)fluoranthene	40	0	43	108	42-172

Column to be used to flag recovery with an asterisk

* Values outside of QC limits.

Spike Recovery: 0 out of 65 outside limits

COMMENTS: _____

FORM III SV-1

3C

WATER SEMIVOLATILE SPIKE/SPIKE DUPLICATE RECOVERY SUMMARY

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 1926A SAS No.: _____ SDG No.: A1926

Matrix Spike - EPA Sample No.: SBLKKQ _____

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	SPIKE CONCENTRATION (ug/L)	SPIKE % REC #	QC. LIMITS REC.
Benzo(k)fluoranthene	40	0	42	105	55-150
Benzo(a)pyrene	40	0	42	105	68-147
Indeno(1,2,3-cd)pyrene	40	0	41	102	52-157
Dibenzo(a,h)anthracene	40	0	41	102	25-159
Benzo(g,h,i)perylene	40	0	42	105	56-166
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Column to be used to flag recovery with an asterisk

* Values outside of QC limits.

Spike Recovery: 0 out of 65 outside limits

COMMENTS: _____

FORM III SV-1

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLKKQ

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 1926A SAS No.: _____ SDG No.: A1926

Lab File ID: >Q9245 Lab Sample ID: SBLKKQ

Instrument ID: HP5971Q Date Extracted: 09/07/00

Matrix: (soil/water) WATER Date Analyzed: 09/08/00

Level: (low/med) LOW Time Analyzed: 1323

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SBLKKQFMS	SBLKKQFMS	>Q9246	09/08/00
02	SW-01	001926A-01	>Q9247	09/08/00
03	SW-02	001926A-02	>Q9248	09/08/00
04	SW-03	001926A-03	>Q9249	09/08/00
05	SW-70	001926A-04	>Q9250	09/08/00
06	SW-05	001926A-05	>Q9251	09/08/00
07	SW-06	001926A-06	>Q9252	09/08/00
08	SW-07	001926A-07	>Q9253	09/08/00
09	SW-08	001926A-08	>Q9254	09/08/00
10	SW-09	001926A-09	>Q9255	09/08/00
11	SW-09MS	001926A-09MS	>Q9256	09/08/00
12	SW-09MSD	001926A-09MSD	>Q9257	09/08/00
13	FIELD BLANK	001926A-10	>Q9258	09/08/00
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COMMENTS: _____

FORM IV SV

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 1926A SAS No.: _____ SDG No.: A1926

Lab File ID: Q9174 DFTPP Injection Date:08/29/00

Instrument ID: HP5971Q DFTPP Injection Time:1048

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	0.0 (0.0)1
69	Mass 69 relative abundance	71.6
70	Less than 2.0% of mass 69	0.0 (0.0)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	7.4
275	10.0 - 30.0% of mass 198	18.4
365	Greater than 1.0% of mass 198	2.01
441	Present, but less than mass 443	8.2
442	40.0 - 100.0% of mass 198	57.5
443	17.0 - 23.0% of mass 442	10.7 (18.6)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	SSTD020M7	SSTD020M7	>Q9175	08/29/00	1231
02	SSTD050M8	SSTD050M8	>Q9176	08/29/00	1315
03	SSTD080M9	SSTD080M9	>Q9177	08/29/00	1400
04	SSTD120G1	SSTD120G1	>Q9178	08/29/00	1444
05	SSTD160G2	SSTD160G2	>Q9179	08/29/00	1529
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FORM V SV

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 1926A SAS No.: _____ SDG No.: A1926

Lab File ID: Q9244 DFTPP Injection Date:09/08/00

Instrument ID: HP5971Q DFTPP Injection Time:1236

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	48.9
68	Less than 2.0% of mass 69	0.4 (0.7)1
69	Mass 69 relative abundance	60.0
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	52.5
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	6.8
275	10.0 - 30.0% of mass 198	17.9
365	Greater than 1.0% of mass 198	2.19
441	Present, but less than mass 443	9.3
442	40.0 - 100.0% of mass 198	61.9
443	17.0 - 23.0% of mass 442	11.6 (18.8)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	SSTD050H9	SSTD050H9	>Q9244	09/08/00	1236
02	SBLKKQ	SBLKKQ	>Q9245	09/08/00	1323
03	SBLKKQFMS	SBLKKQFMS	>Q9246	09/08/00	1406
04	SW-01	001926A-01	>Q9247	09/08/00	1449
05	SW-02	001926A-02	>Q9248	09/08/00	1532
06	SW-03	001926A-03	>Q9249	09/08/00	1615
07	SW-70	001926A-04	>Q9250	09/08/00	1658
08	SW-05	001926A-05	>Q9251	09/08/00	1741
09	SW-06	001926A-06	>Q9252	09/08/00	1823
10	SW-07	001926A-07	>Q9253	09/08/00	1906
11	SW-08	001926A-08	>Q9254	09/08/00	1949
12	SW-09	001926A-09	>Q9255	09/08/00	2032
13	SW-09MS	001926A-09MS	>Q9256	09/08/00	2115
14	SW-09MSD	001926A-09MSD	>Q9257	09/08/00	2158
15	FIELD BLANK	001926A-10	>Q9258	09/08/00	2241
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FORM V SV

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 1926A SAS No.: _____ SDG No.: A1926

Lab File ID: (Standard): >Q9244 Date Analyzed:09/08/00

Instrument ID: HP5971Q Time Analyzed:1236

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	166559	9.96	710481	12.92	372322	16.82
	UPPER LIMIT	333118	10.46	1420962	13.42	744644	17.32
	LOWER LIMIT	83280	9.46	355240	12.42	186161	16.32
	EPA SAMPLE NO.						
01	SBLKKQ	174755	9.95	773569	12.92	425466	16.80
02	SBLKKQFMS	172592	9.95	635569	12.92	367451	16.82
03	SW-01	163035	9.95	674420	12.91	349830	16.80
04	SW-02	202329	9.94	809253	12.91	424813	16.80
05	SW-03	207691	9.95	863962	12.90	452808	16.80
06	SW-70	204293	9.94	800062	12.91	437911	16.80
07	SW-05	194357	9.94	876777	12.91	464037	16.80
08	SW-06	195338	9.94	818191	12.90	436631	16.80
09	SW-07	199101	9.94	769957	12.91	431695	16.80
10	SW-08	178691	9.94	721135	12.91	354848	16.80
11	SW-09	245133	9.94	998834	12.91	520316	16.80
12	SW-09MS	171459	9.94	651926	12.90	399594	16.80
13	SW-09MSD	188367	9.94	731774	12.90	464984	16.80
14	FIELD BLANK	203256	9.94	750593	12.90	498805	16.80
15							
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17							
18							
19							
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22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-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.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 1926A SAS No.: _____ SDG No.: A1926

Lab File ID: (Standard): >Q9244 Date Analyzed:09/08/00

Instrument ID: HP5971Q Time Analyzed:1236

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	769992	19.88	393921	25.32	354100	28.34
	UPPER LIMIT	1539984	20.38	787842	25.82	708200	28.84
	LOWER LIMIT	384996	19.38	196960	24.82	177050	27.84
	EPA SAMPLE NO.						
01	SBLKKQ	749858	19.87	613829	25.31	425514	28.32
02	SBLKKQFMS	673966	19.88	378056	25.32	320141	28.34
03	SW-01	597691	19.87	468444	25.31	351618	28.33
04	SW-02	732690	19.87	521499	25.31	339653	28.33
05	SW-03	755423	19.87	525482	25.30	348334	28.33
06	SW-70	740229	19.87	494820	25.31	326325	28.32
07	SW-05	772626	19.87	474212	25.31	292564	28.32
08	SW-06	749488	19.87	519196	25.30	325780	28.32
09	SW-07	711959	19.86	458992	25.31	296705	28.32
10	SW-08	577654	19.86	338108	25.31	229460	28.32
11	SW-09	855390	19.86	556448	25.30	358240	28.32
12	SW-09MS	634901	19.87	557106	25.30	386613	28.33
13	SW-09MSD	719458	19.87	554546	25.30	366794	28.32
14	FIELD BLANK	864914	19.86	625937	25.30	370947	28.32
15							
16							
17							
18							
19							
20							
21							
22							

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

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

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

FORM VIII SV-2

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-01

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 1926A SAS No.: _____ SDG No.: A1926

Matrix: (soil/water) WATER Lab Sample ID: 001926A-01

Sample wt/vol: 920 (g/mL) ML Lab File ID: >Q9247

Level: (low/med) LOW Date Received: 09/06/00

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 09/07/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/08/00

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/L	Q
106-44-5	4-Methylphenol	11	U
91-20-3	Naphthalene	11	U
91-57-6	2-Methylnaphthalene	11	U
208-96-8	Acenaphthylene	11	U
83-32-9	Acenaphthene	11	U
86-73-7	Fluorene	11	U
84-66-2	Diethylphthalate	11	U
85-01-8	Phenanthrene	11	U
120-12-7	Anthracene	11	U
206-44-0	Fluoranthene	11	U
129-00-0	Pyrene	11	U
56-55-3	Benzo(a)anthracene	11	U
218-01-9	Chrysene	11	U
117-81-7	bis(2-Ethylhexyl)phthalate	1	JB
205-99-2	Benzo(b)fluoranthene	11	U
207-08-9	Benzo(k)fluoranthene	11	U
50-32-8	Benzo(a)pyrene	11	U
193-39-5	Indeno(1,2,3-cd)pyrene	11	U
53-70-3	Dibenzo(a,h)anthracene	11	U
191-24-2	Benzo(g,h,i)perylene	11	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-02

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 1926A SAS No.: _____ SDG No.: A1926

Matrix: (soil/water) WATER Lab Sample ID: 001926A-02

Sample wt/vol: 900 (g/mL) ML Lab File ID: >Q9248

Level: (low/med) LOW Date Received: 09/06/00

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 09/07/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/08/00

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/L	Q
106-44-5	4-Methylphenol	11	U
91-20-3	Naphthalene	11	U
91-57-6	2-Methylnaphthalene	11	U
208-96-8	Acenaphthylene	11	U
83-32-9	Acenaphthene	11	U
86-73-7	Fluorene	11	U
84-66-2	Diethylphthalate	11	U
85-01-8	Phenanthrene	11	U
120-12-7	Anthracene	11	U
206-44-0	Fluoranthene	11	U
129-00-0	Pyrene	11	U
56-55-3	Benzo(a)anthracene	11	U
218-01-9	Chrysene	11	U
117-81-7	bis(2-Ethylhexyl)phthalate	1	JB
205-99-2	Benzo(b)fluoranthene	11	U
207-08-9	Benzo(k)fluoranthene	11	U
50-32-8	Benzo(a)pyrene	11	U
193-39-5	Indeno(1,2,3-cd)pyrene	11	U
53-70-3	Dibenzo(a,h)anthracene	11	U
191-24-2	Benzo(g,h,i)perylene	11	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-03

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 1926A SAS No.: _____ SDG No.: A1926

Matrix: (soil/water) WATER Lab Sample ID: 001926A-03

Sample wt/vol: 900 (g/mL) ML Lab File ID: >Q9249

Level: (low/med) LOW Date Received: 09/06/00

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 09/07/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/08/00

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/L	Q
106-44-5	4-Methylphenol	11	U
91-20-3	Naphthalene	11	U
91-57-6	2-Methylnaphthalene	11	U
208-96-8	Acenaphthylene	11	U
83-32-9	Acenaphthene	11	U
86-73-7	Fluorene	11	U
84-66-2	Diethylphthalate	11	U
85-01-8	Phenanthrene	11	U
120-12-7	Anthracene	11	U
206-44-0	Fluoranthene	11	U
129-00-0	Pyrene	11	U
56-55-3	Benzo(a)anthracene	11	U
218-01-9	Chrysene	11	U
117-81-7	bis(2-Ethylhexyl)phthalate	1	JB
205-99-2	Benzo(b)fluoranthene	11	U
207-08-9	Benzo(k)fluoranthene	11	U
50-32-8	Benzo(a)pyrene	11	U
193-39-5	Indeno(1,2,3-cd)pyrene	11	U
53-70-3	Dibenzo(a,h)anthracene	11	U
191-24-2	Benzo(g,h,i)perylene	11	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-70

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 1926A SAS No.: _____ SDG No.: A1926

Matrix: (soil/water) WATER Lab Sample ID: 001926A-04

Sample wt/vol: 830 (g/mL) ML Lab File ID: >Q9250

Level: (low/med) LOW Date Received: 09/06/00

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 09/07/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/08/00

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/L	Q
106-44-5	4-Methylphenol	12	U
91-20-3	Naphthalene	12	U
91-57-6	2-Methylnaphthalene	12	U
208-96-8	Acenaphthylene	12	U
83-32-9	Acenaphthene	12	U
86-73-7	Fluorene	12	U
84-66-2	Diethylphthalate	12	U
85-01-8	Phenanthrene	12	U
120-12-7	Anthracene	12	U
206-44-0	Fluoranthene	.1	J
129-00-0	Pyrene	12	U
56-55-3	Benzo(a)anthracene	12	U
218-01-9	Chrysene	12	U
117-81-7	bis(2-Ethylhexyl)phthalate	2	JB
205-99-2	Benzo(b)fluoranthene	12	U
207-08-9	Benzo(k)fluoranthene	12	U
50-32-8	Benzo(a)pyrene	12	U
193-39-5	Indeno(1,2,3-cd)pyrene	12	U
53-70-3	Dibenzo(a,h)anthracene	12	U
191-24-2	Benzo(g,h,i)perylene	12	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-05

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 1926A SAS No.: _____ SDG No.: A1926

Matrix: (soil/water) WATER Lab Sample ID: 001926A-05

Sample wt/vol: 830 (g/mL) ML Lab File ID: >Q9251

Level: (low/med) LOW Date Received: 09/06/00

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 09/07/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/08/00

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/L	Q
106-44-5	4-Methylphenol	12	U
91-20-3	Naphthalene	12	U
91-57-6	2-Methylnaphthalene	12	U
208-96-8	Acenaphthylene	12	U
83-32-9	Acenaphthene	12	U
86-73-7	Fluorene	12	U
84-66-2	Diethylphthalate	12	U
85-01-8	Phenanthrene	12	U
120-12-7	Anthracene	12	U
206-44-0	Fluoranthene	12	U
129-00-0	Pyrene	12	U
56-55-3	Benzo(a)anthracene	12	U
218-01-9	Chrysene	12	U
117-81-7	bis(2-Ethylhexyl)phthalate	2	JB
205-99-2	Benzo(b)fluoranthene	12	U
207-08-9	Benzo(k)fluoranthene	12	U
50-32-8	Benzo(a)pyrene	12	U
193-39-5	Indeno(1,2,3-cd)pyrene	12	U
53-70-3	Dibenzo(a,h)anthracene	12	U
191-24-2	Benzo(g,h,i)perylene	12	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-06

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 1926A SAS No.: _____ SDG No.: A1926

Matrix: (soil/water) WATER Lab Sample ID: 001926A-06

Sample wt/vol: 630 (g/mL) ML Lab File ID: >Q9252

Level: (low/med) LOW Date Received: 09/06/00

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 09/07/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/08/00

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/L	Q
106-44-5	4-Methylphenol	16	U
91-20-3	Naphthalene	16	U
91-57-6	2-Methylnaphthalene	16	U
208-96-8	Acenaphthylene	16	U
83-32-9	Acenaphthene	16	U
86-73-7	Fluorene	16	U
84-66-2	Diethylphthalate	16	U
85-01-8	Phenanthrene	.3	J
120-12-7	Anthracene	16	U
206-44-0	Fluoranthene	1	J
129-00-0	Pyrene	.8	J
56-55-3	Benzo(a)anthracene	16	U
218-01-9	Chrysene	.6	J
117-81-7	bis(2-Ethylhexyl)phthalate	1	JB
205-99-2	Benzo(b)fluoranthene	16	U
207-08-9	Benzo(k)fluoranthene	16	U
50-32-8	Benzo(a)pyrene	16	U
193-39-5	Indeno(1,2,3-cd)pyrene	16	U
53-70-3	Dibenzo(a,h)anthracene	16	U
191-24-2	Benzo(g,h,i)perylene	16	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-07

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 1926A SAS No.: _____ SDG No.: A1926

Matrix: (soil/water) WATER Lab Sample ID: 001926A-07

Sample wt/vol: 850 (g/mL) ML Lab File ID: >Q9253

Level: (low/med) LOW Date Received: 09/06/00

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 09/07/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/08/00

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/L	Q
106-44-5	4-Methylphenol	12	U
91-20-3	Naphthalene	12	U
91-57-6	2-Methylnaphthalene	12	U
208-96-8	Acenaphthylene	12	U
83-32-9	Acenaphthene	12	U
86-73-7	Fluorene	12	U
84-66-2	Diethylphthalate	12	U
85-01-8	Phenanthrene	12	U
120-12-7	Anthracene	12	U
206-44-0	Fluoranthene	12	U
129-00-0	Pyrene	12	U
56-55-3	Benzo(a)anthracene	12	U
218-01-9	Chrysene	12	U
117-81-7	bis(2-Ethylhexyl)phthalate	1	JB
205-99-2	Benzo(b)fluoranthene	12	U
207-08-9	Benzo(k)fluoranthene	12	U
50-32-8	Benzo(a)pyrene	12	U
193-39-5	Indeno(1,2,3-cd)pyrene	12	U
53-70-3	Dibenzo(a,h)anthracene	12	U
191-24-2	Benzo(g,h,i)perylene	12	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-08

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 1926A SAS No.: _____ SDG No.: A1926

Matrix: (soil/water) WATER Lab Sample ID: 001926A-08

Sample wt/vol: 720 (g/mL) ML Lab File ID: >Q9254

Level: (low/med) LOW Date Received: 09/06/00

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 09/07/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/08/00

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/L	Q
106-44-5	4-Methylphenol	14	U
91-20-3	Naphthalene	14	U
91-57-6	2-Methylnaphthalene	14	U
208-96-8	Acenaphthylene	14	U
83-32-9	Acenaphthene	14	U
86-73-7	Fluorene	14	U
84-66-2	Diethylphthalate	14	U
85-01-8	Phenanthrene	14	U
120-12-7	Anthracene	14	U
206-44-0	Fluoranthene	14	U
129-00-0	Pyrene	14	U
56-55-3	Benzo(a)anthracene	14	U
218-01-9	Chrysene	14	U
117-81-7	bis(2-Ethylhexyl)phthalate	2	JB
205-99-2	Benzo(b)fluoranthene	14	U
207-08-9	Benzo(k)fluoranthene	14	U
50-32-8	Benzo(a)pyrene	14	U
193-39-5	Indeno(1,2,3-cd)pyrene	14	U
53-70-3	Dibenzo(a,h)anthracene	14	U
191-24-2	Benzo(g,h,i)perylene	14	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-09

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 1926A SAS No.: _____ SDG No.: A1926

Matrix: (soil/water) WATER Lab Sample ID: 001926A-09

Sample wt/vol: 860 (g/mL) ML Lab File ID: >Q9255

Level: (low/med) LOW Date Received: 09/06/00

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 09/07/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/08/00

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/L	Q
108-94-1	Cyclohexanone	21	
108-95-2	Phenol	12	U
111-44-4	bis(2-Chloroethyl)ether	12	U
95-57-8	2-Chlorophenol	12	U
541-73-1	1,3-Dichlorobenzene	12	U
106-46-7	1,4-Dichlorobenzene	12	U
100-51-6	Benzyl alcohol	12	U
95-50-1	1,2-Dichlorobenzene	12	U
95-48-7	2-Methylphenol	12	U
108-60-1	bis(2-Chloroisopropyl)ether	12	U
106-44-5	4-Methylphenol	12	U
621-64-7	N-Nitroso-di-n-propylamine	12	U
67-72-1	Hexachloroethane	12	U
98-95-3	Nitrobenzene	12	U
78-59-1	Isophorone	12	U
88-75-5	2-Nitrophenol	12	U
105-67-9	2,4-Dimethylphenol	12	U
65-85-0	Benzoic acid	58	U
111-91-1	bis(2-Chloroethoxy)methane	12	U
120-83-2	2,4-Dichlorophenol	12	U
120-82-1	1,2,4-Trichlorobenzene	12	U
91-20-3	Naphthalene	12	U
106-47-8	4-Chloroaniline	12	U
87-68-3	Hexachlorobutadiene	12	U
59-50-7	4-Chloro-3-methylphenol	12	U
91-57-6	2-Methylnaphthalene	12	U
77-47-4	Hexachlorocyclopentadiene	12	U
88-06-2	2,4,6-Trichlorophenol	12	U
95-95-4	2,4,5-Trichlorophenol	58	U
91-58-7	2-Chloronaphthalene	12	U
88-74-4	2-Nitroaniline	58	U
131-11-3	Dimethylphthalate	12	U
208-96-8	Acenaphthylene	12	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-09

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 1926A SAS No.: _____ SDG No.: A1926

Matrix: (soil/water) WATER Lab Sample ID: 001926A-09

Sample wt/vol: 860 (g/mL) ML Lab File ID: >Q9255

Level: (low/med) LOW Date Received: 09/06/00

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 09/07/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/08/00

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/L	Q
606-20-2	2,6-Dinitrotoluene	12	U
99-09-2	3-Nitroaniline	58	U
83-32-9	Acenaphthene	12	U
51-28-5	2,4-Dinitrophenol	58	U
100-02-7	4-Nitrophenol	58	U
132-64-9	Dibenzofuran	12	U
121-14-2	2,4-Dinitrotoluene	12	U
84-66-2	Diethylphthalate	.3	J
7005-72-3	4-Chlorophenyl-phenylether	12	U
86-73-7	Fluorene	12	U
100-01-6	4-Nitroaniline	58	U
534-52-1	4,6-Dinitro-2-methylphenol	58	U
86-30-6	N-Nitrosodiphenylamine (1)	12	U
101-55-3	4-Bromophenyl-phenylether	12	U
118-74-1	Hexachlorobenzene	12	U
87-86-5	Pentachlorophenol	58	U
85-01-8	Phenanthrene	12	U
120-12-7	Anthracene	12	U
84-74-2	Di-n-butylphthalate	12	U
206-44-0	Fluoranthene	12	U
129-00-0	Pyrene	12	U
85-68-7	Butylbenzylphthalate	12	U
91-94-1	3,3'-Dichlorobenzidine	23	U
56-55-3	Benzo(a)anthracene	12	U
218-01-9	Chrysene	12	U
117-81-7	bis(2-Ethylhexyl)phthalate	.7	JB
117-84-0	Di-n-octylphthalate	12	U
205-99-2	Benzo(b)fluoranthene	12	U
207-08-9	Benzo(k)fluoranthene	12	U
50-32-8	Benzo(a)pyrene	12	U
193-39-5	Indeno(1,2,3-cd)pyrene	12	U
53-70-3	Dibenzo(a,h)anthracene	12	U
191-24-2	Benzo(g,h,i)perylene	12	U

(1) - Cannot be separated from Diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FIELD BLANK

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 1926A SAS No.: _____ SDG No.: A1926

Matrix: (soil/water) WATER Lab Sample ID: 001926A-10

Sample wt/vol: 760 (g/mL) ML Lab File ID: >Q9258

Level: (low/med) LOW Date Received: 09/06/00

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 09/07/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/08/00

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/L	Q
108-94-1	Cyclohexanone	2	J
108-95-2	Phenol	13	U
111-44-4	bis(2-Chloroethyl)ether	13	U
95-57-8	2-Chlorophenol	13	U
541-73-1	1,3-Dichlorobenzene	13	U
106-46-7	1,4-Dichlorobenzene	13	U
100-51-6	Benzyl alcohol	13	U
95-50-1	1,2-Dichlorobenzene	13	U
95-48-7	2-Methylphenol	13	U
108-60-1	bis(2-Chloroisopropyl)ether	13	U
106-44-5	4-Methylphenol	13	U
621-64-7	N-Nitroso-di-n-propylamine	13	U
67-72-1	Hexachloroethane	13	U
98-95-3	Nitrobenzene	13	U
78-59-1	Isophorone	13	U
88-75-5	2-Nitrophenol	13	U
105-67-9	2,4-Dimethylphenol	13	U
65-85-0	Benzoic acid	66	U
111-91-1	bis(2-Chloroethoxy)methane	13	U
120-83-2	2,4-Dichlorophenol	13	U
120-82-1	1,2,4-Trichlorobenzene	13	U
91-20-3	Naphthalene	13	U
106-47-8	4-Chloroaniline	13	U
87-68-3	Hexachlorobutadiene	13	U
59-50-7	4-Chloro-3-methylphenol	13	U
91-57-6	2-Methylnaphthalene	13	U
77-47-4	Hexachlorocyclopentadiene	13	U
88-06-2	2,4,6-Trichlorophenol	13	U
95-95-4	2,4,5-Trichlorophenol	66	U
91-58-7	2-Chloronaphthalene	13	U
88-74-4	2-Nitroaniline	66	U
131-11-3	Dimethylphthalate	13	U
208-96-8	Acenaphthylene	13	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FIELD BLANK

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 1926A SAS No.: _____ SDG No.: A1926

Matrix: (soil/water) WATER Lab Sample ID: 001926A-10

Sample wt/vol: 760 (g/mL) ML Lab File ID: >Q9258

Level: (low/med) LOW Date Received: 09/06/00

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 09/07/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/08/00

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/L	Q
606-20-2	2,6-Dinitrotoluene	13	U
99-09-2	3-Nitroaniline	66	U
83-32-9	Acenaphthene	13	U
51-28-5	2,4-Dinitrophenol	66	U
100-02-7	4-Nitrophenol	66	U
132-64-9	Dibenzofuran	13	U
121-14-2	2,4-Dinitrotoluene	13	U
84-66-2	Diethylphthalate	13	U
7005-72-3	4-Chlorophenyl-phenylether	13	U
86-73-7	Fluorene	13	U
100-01-6	4-Nitroaniline	66	U
534-52-1	4,6-Dinitro-2-methylphenol	66	U
86-30-6	N-Nitrosodiphenylamine (1)	13	U
101-55-3	4-Bromophenyl-phenylether	13	U
118-74-1	Hexachlorobenzene	13	U
87-86-5	Pentachlorophenol	66	U
85-01-8	Phenanthrene	13	U
120-12-7	Anthracene	13	U
84-74-2	Di-n-butylphthalate	13	U
206-44-0	Fluoranthene	13	U
129-00-0	Pyrene	13	U
85-68-7	Butylbenzylphthalate	13	U
91-94-1	3,3'-Dichlorobenzidine	26	U
56-55-3	Benzo(a)anthracene	13	U
218-01-9	Chrysene	13	U
117-81-7	bis(2-Ethylhexyl)phthalate	13	U
117-84-0	Di-n-octylphthalate	13	U
205-99-2	Benzo(b)fluoranthene	13	U
207-08-9	Benzo(k)fluoranthene	13	U
50-32-8	Benzo(a)pyrene	13	U
193-39-5	Indeno(1,2,3-cd)pyrene	13	U
53-70-3	Dibenzo(a,h)anthracene	13	U
191-24-2	Benzo(g,h,i)perylene	13	U

(1) - Cannot be separated from Diphenylamine

6B
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 1926A SAS No.: _____ SDG No.: A1926

Instrument ID: HP5971Q Calibration Date(s):08/29/00 _____

Calibration Times: 1231 1529

LAB FILE ID: RRF20 = >Q9175 RRF50 = >Q9176
RRF80 = >Q9177 RRF120= >Q9178 RRF160= >Q9179

COMPOUND		RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD	
Phenol	*	2.507	2.408	2.219	2.153	2.133	2.284	7.2	*
bis(2-Chloroethyl)ether	*	1.638	1.524	1.422	1.358	1.280	1.444	9.7	*
2-Chlorophenol	*	1.603	1.512	1.400	1.362	1.354	1.446	7.5	*
1,3-Dichlorobenzene	*	1.680	1.636	1.504	1.482	1.451	1.551	6.5	*
1,4-Dichlorobenzene	*	1.519	1.454	1.389	1.377	1.346	1.417	4.9	*
Benzyl alcohol	*	1.279	1.333	1.269	1.289	1.271	1.288	2.0	*
1,2-Dichlorobenzene	*	1.461	1.359	1.248	1.196	1.148	1.282	9.9	*
2-Methylphenol	*	1.703	1.687	1.578	1.562	1.540	1.614	4.7	*
2,2'-oxybis(1-Chloropropane)	*	3.465	3.139	2.902	2.700	2.571	2.955	12.1	*
4-Methylphenol	*	1.910	1.908	1.836	1.791	1.726	1.834	4.3	*
N-Nitroso-di-n-propylamine	*	1.510	1.339	1.240	1.179	1.145	1.283	11.4	*
Hexachloroethane	*	0.767	0.735	0.695	0.682	0.645	0.705	6.7	*
Nitrobenzene	*	0.460	0.432	0.407	0.399	0.382	0.416	7.3	*
Isophorone	*	0.994	0.983	0.919	0.889	0.863	0.930	6.2	*
2-Nitrophenol	*	0.211	0.214	0.211	0.218	0.215	0.214	1.4	*
2,4-Dimethylphenol	*	0.379	0.386	0.367	0.349	0.336	0.363	5.7	*
Benzoic acid	*	0.202	0.244	0.231	0.269	0.275	0.244	12.2	*
bis(2-Chloroethoxy)methane	*	0.551	0.506	0.481	0.476	0.458	0.494	7.3	*
2,4-Dichlorophenol	*	0.295	0.290	0.286	0.280	0.269	0.284	3.5	*
1,2,4-Trichlorobenzene	*	0.326	0.310	0.297	0.295	0.281	0.302	5.6	*
Naphthalene	*	1.028	0.958	0.927	0.887	0.867	0.933	6.8	*
4-Chloroaniline	*	0.508	0.508	0.467	0.446	0.423	0.470	8.0	*
Hexachlorobutadiene	*	0.161	0.162	0.155	0.151	0.150	0.156	3.6	*
4-Chloro-3-methylphenol	*	0.434	0.425	0.398	0.384	0.368	0.402	6.9	*
2-Methylnaphthalene	*	0.735	0.674	0.624	0.574	0.545	0.630	12.1	*
Hexachlorocyclopentadiene	*	0.372	0.382	0.376	0.371	0.352	0.371	3.0	*
2,4,6-Trichlorophenol	*	0.413	0.417	0.416	0.425	0.429	0.420	1.6	*
2,4,5-Trichlorophenol	*	0.446	0.436	0.408	0.402	0.391	0.417	5.6	*
2-Chloronaphthalene	*	1.095	0.998	0.956	0.936	0.927	0.982	7.0	*
2-Nitroaniline	*	0.509	0.541	0.542	0.546	0.542	0.536	2.8	*
Dimethylphthalate	*	1.622	1.604	1.559	1.531	1.489	1.561	3.4	*
Acenaphthylene	*	1.892	1.741	1.647	1.576	1.544	1.680	8.4	*
2,6-Dinitrotoluene	*	0.317	0.341	0.346	0.349	0.342	0.339	3.7	*
3-Nitroaniline	*	0.450	0.473	0.470	0.479	0.468	0.468	2.3	*
Acenaphthene	*	1.011	1.018	0.977	0.974	0.970	0.990	2.3	*
2,4-Dinitrophenol	*	0.112	0.164	0.180	0.213	0.216	0.177	24.0	*
4-Nitrophenol	*	0.245	0.256	0.256	0.269	0.258	0.257	3.3	*

* Compounds with required minimum RRF and maximum %RSD values.

6C
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA 1

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 1926A SAS No.: _____ SDG No.: A1926

Instrument ID: HP5971Q Calibration Date(s):08/29/00 _____

Calibration Times: 1231 1529

LAB FILE ID: RRF20 = >Q9175 RRF50 = >Q9176
RRF80 = >Q9177 RRF120= >Q9178 RRF160= >Q9179

COMPOUND		RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD	
Dibenzofuran	*	1.674	1.644	1.568	1.522	1.500	1.582	4.8	*
2,4-Dinitrotoluene	*	0.386	0.415	0.416	0.428	0.421	0.413	3.9	*
Diethylphthalate	*	1.732	1.682	1.604	1.585	1.532	1.627	4.9	*
4-Chlorophenyl-phenyl Ether	*	0.682	0.649	0.622	0.602	0.590	0.629	5.9	*
Fluorene	*	1.329	1.217	1.134	1.096	1.061	1.167	9.2	*
4-Nitroaniline	*	0.437	0.460	0.444	0.442	0.422	0.441	3.1	*
4,6-Dinitro-2-methylphenol	*	0.098	0.118	0.123	0.131	0.127	0.119	10.8	*
N-Nitrosodiphenylamine	*	0.495	0.439	0.411	0.395	0.376	0.423	10.9	*
4-Bromophenyl-phenylether	*	0.198	0.186	0.175	0.174	0.168	0.180	6.6	*
Hexachlorobenzene	*	0.226	0.217	0.207	0.204	0.194	0.210	5.9	*
Pentachlorophenol	*	0.138	0.142	0.142	0.147	0.142	0.142	2.2	*
Phenanthrene	*	0.928	0.875	0.832	0.830	0.803	0.854	5.7	*
Anthracene	*	0.968	0.878	0.805	0.774	0.735	0.832	11.1	*
Carbazole	*	1.068	0.988	0.900	0.874	0.820	0.930	10.6	*
Di-n-butylphthalate	*	1.609	1.438	1.322	1.268	1.182	1.364	12.1	*
Fluoranthene	*	1.310	1.222	1.119	1.072	1.020	1.149	10.2	*
Pyrene	*	1.707	1.676	1.615	1.515	1.440	1.591	7.0	*
Butylbenzylphthalate	*	1.008	0.983	0.940	0.888	0.856	0.935	6.8	*
3,3'-Dichlorobenzidine	*	0.600	0.544	0.588	0.593	0.571	0.579	3.9	*
Benzo(a)anthracene	*	1.253	1.165	1.104	1.045	1.047	1.123	7.8	*
Chrysene	*	1.011	1.041	1.030	1.009	0.985	1.015	2.1	*
bis(2-Ethylhexyl)phthalate	*	1.167	1.068	0.995	0.916	0.878	1.005	11.6	*
Di-n-octylphthalate	*	2.131	2.146	1.992	2.027	1.905	2.040	4.9	*
Benzo(b)fluoranthene	*	1.385	1.405	1.344	1.467	1.409	1.402	3.2	*
Benzo(k)fluoranthene	*	1.064	1.002	0.884	0.773	0.716	0.888	16.6	*
Benzo(a)pyrene	*	1.204	1.207	1.144	1.147	1.087	1.158	4.3	*
Indeno(1,2,3-cd)pyrene	*	1.278	1.234	1.190	1.227	1.244	1.235	2.6	*
Dibenz(a,h)anthracene	*	1.076	1.018	0.977	1.010	0.995	1.015	3.7	*
Benzo(g,h,i)perylene	*	1.175	1.112	1.123	1.154	1.205	1.154	3.3	*
Nitrobenzene-D5	*	0.452	0.450	0.436	0.437	0.423	0.440	2.7	*
2-Fluorobiphenyl	*	1.240	1.160	1.100	1.091	1.080	1.134	5.9	*
Terphenyl-D14	*	1.168	1.203	1.163	1.118	1.080	1.146	4.2	*
Phenol-D5	*	2.617	2.698	2.545	2.535	2.502	2.579	3.0	*
2-Fluorophenol	*	1.623	1.790	1.782	1.902	1.885	1.796	6.2	*
2,4,6-Tribromophenol	*	0.213	0.213	0.216	0.222	0.219	0.217	1.8	*

(1) Cannot be separated from Diphenylamine
* Compounds with required minimum RRF and maximum %RSD values.

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 1926A SAS No.: _____ SDG No.: A1926

Instrument ID: HP5971Q Calibration Date: 09/08/00 Time: 1236

Lab File ID: >Q9244 Init. Calib. Date(s): 08/29/00 _____

Init. Calib. Times: 1231 1529

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Phenol	2.284	2.218		-2.9	20.0
bis(2-Chloroethyl)ether	1.444	1.383		-4.2	
2-Chlorophenol	1.446	1.430		-1.1	
1,3-Dichlorobenzene	1.551	1.612		3.9	
1,4-Dichlorobenzene	1.417	1.374		-3.0	20.0
Benzyl alcohol	1.288	1.297		0.7	
1,2-Dichlorobenzene	1.282	1.257		-2.0	
2-Methylphenol	1.614	1.627		0.8	
2,2'-oxybis(1-Chloropropane)	2.955	2.785		-5.8	
4-Methylphenol	1.834	1.752		-4.5	
N-Nitroso-di-n-propylamine	1.283	1.212	0.050	-5.5	
Hexachloroethane	0.705	0.682		-3.3	
Nitrobenzene	0.416	0.416		0.0	
Isophorone	0.930	0.939		1.0	
2-Nitrophenol	0.214	0.237		10.7	20.0
2,4-Dimethylphenol	0.363	0.377		3.9	
Benzoic acid	0.244	0.252		3.3	
bis(2-Chloroethoxy)methane	0.494	0.512		3.6	
2,4-Dichlorophenol	0.284	0.306		7.8	20.0
1,2,4-Trichlorobenzene	0.302	0.307		1.7	
Naphthalene	0.933	0.906		-2.9	
4-Chloroaniline	0.470	0.499		6.2	
Hexachlorobutadiene	0.156	0.156		0.0	20.0
4-Chloro-3-methylphenol	0.402	0.400		-0.5	20.0
2-Methylnaphthalene	0.630	0.604		-4.1	
Hexachlorocyclopentadiene	0.371	0.313	0.050	-15.6	
2,4,6-Trichlorophenol	0.420	0.427		1.7	20.0
2,4,5-Trichlorophenol	0.417	0.425		1.9	
2-Chloronaphthalene	0.982	0.984		0.2	
2-Nitroaniline	0.536	0.546		1.9	
Dimethylphthalate	1.561	1.553		-0.5	
Acenaphthylene	1.680	1.746		3.9	
2,6-Dinitrotoluene	0.339	0.357		5.3	
3-Nitroaniline	0.468	0.501		7.0	
Acenaphthene	0.990	0.998		0.8	20.0
2,4-Dinitrophenol	0.177	0.182	0.050	2.8	
4-Nitrophenol	0.257	0.228	0.050	-11.3	

7C
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 1926A SAS No.: _____ SDG No.: A1926

Instrument ID: HP5971Q Calibration Date: 09/08/00 Time: 1236

Lab File ID: >Q9244 Init. Calib. Date(s): 08/29/00 _____

Init. Calib. Times: 1231 1529

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Dibenzofuran	1.582	1.606		1.5	
2,4-Dinitrotoluene	0.413	0.437		5.8	
Diethylphthalate	1.627	1.609		-1.1	
4-Chlorophenyl-Phenyl Ether	0.629	0.644		2.4	
Fluorene	1.167	1.170		0.2	
4-Nitroaniline	0.441	0.497		12.7	
4,6-Dinitro-2-methylphenol	0.119	0.132		10.9	
N-Nitrosodiphenylamine	0.423	0.446		5.4	20.0
4-Bromophenyl-phenylether	0.180	0.192		6.7	
Hexachlorobenzene	0.210	0.211		0.5	
Pentachlorophenol	0.142	0.119		-16.2	20.0
Phenanthrene	0.854	0.816		-4.4	
Anthracene	0.832	0.835		0.4	
Carbazole	0.930	0.960		3.2	
Di-n-butylphthalate	1.364	1.344		-1.5	
Fluoranthene	1.149	1.120		-2.5	20.0
Pyrene	1.591	1.945		22.2	
Butylbenzylphthalate	0.935	1.034		10.6	
3,3'-Dichlorobenzidine	0.579	0.643		11.0	
Benzo(a)anthracene	1.123	1.202		7.0	
Chrysene	1.015	1.073		5.7	
bis(2-Ethylhexyl)phthalate	1.005	1.124		11.8	
Di-n-octylphthalate	2.040	2.430		19.1	20.0
Benzo(b)fluoranthene	1.402	1.372		-2.1	
Benzo(k)fluoranthene	0.888	1.097		23.5	
Benzo(a)pyrene	1.158	1.218		5.2	20.0
Indeno(1,2,3-cd)pyrene	1.235	1.093		-11.5	
Dibenz(a,h)anthracene	1.015	0.914		-10.0	
Benzo(g,h,i)perylene	1.154	0.989		-14.3	
Nitrobenzene-D5	0.440	0.468		6.4	
2-Fluorobiphenyl	1.134	1.170		3.2	
Terphenyl-D14	1.146	1.426		24.4	
Phenol-D5	2.579	2.562		-0.6	
2-Fluorophenol	1.796	1.824		1.6	
2,4,6-Tribromophenol	0.217	0.214		-1.4	

(1) Cannot be separated from Diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKKQ

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 1926A SAS No.: _____ SDG No.: A1926

Matrix: (soil/water) WATER Lab Sample ID: SBLKKQ

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >Q9245

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

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 09/07/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/08/00

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/L	Q
108-94-1	Cyclohexanone	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic acid	50	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKKQ

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 1926A SAS No.: _____ SDG No.: A1926

Matrix: (soil/water) WATER Lab Sample ID: SBLKKQ

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >Q9245

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

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 09/07/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/08/00

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/L	Q
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	1	J
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKKQFMS

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 1926A SAS No.: _____ SDG No.: A1926

Matrix: (soil/water) WATER Lab Sample ID: SBLKKQFMS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >Q9246

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

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 09/07/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/08/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
108-94-1	Cyclohexanone	10	U
108-95-2	Phenol	14	
111-44-4	bis(2-Chloroethyl)ether	31	
95-57-8	2-Chlorophenol	37	
541-73-1	1,3-Dichlorobenzene	30	
106-46-7	1,4-Dichlorobenzene	29	
100-51-6	Benzyl alcohol	32	
95-50-1	1,2-Dichlorobenzene	33	
95-48-7	2-Methylphenol	32	
108-60-1	bis(2-Chloroisopropyl)ether	30	
106-44-5	4-Methylphenol	29	
621-64-7	N-Nitroso-di-n-propylamine	32	
67-72-1	Hexachloroethane	26	
98-95-3	Nitrobenzene	36	
78-59-1	Isophorone	37	
88-75-5	2-Nitrophenol	43	
105-67-9	2,4-Dimethylphenol	39	
65-85-0	Benzoic acid	50	U
111-91-1	bis(2-Chloroethoxy)methane	44	
120-83-2	2,4-Dichlorophenol	43	
120-82-1	1,2,4-Trichlorobenzene	32	
91-20-3	Naphthalene	35	
106-47-8	4-Chloroaniline	40	
87-68-3	Hexachlorobutadiene	36	
59-50-7	4-Chloro-3-methylphenol	41	
91-57-6	2-Methylnaphthalene	36	
77-47-4	Hexachlorocyclopentadiene	18	
88-06-2	2,4,6-Trichlorophenol	38	
95-95-4	2,4,5-Trichlorophenol	39	J
91-58-7	2-Chloronaphthalene	48	
88-74-4	2-Nitroaniline	39	J
131-11-3	Dimethylphthalate	39	
208-96-8	Acenaphthylene	35	

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKKQFMS

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 1926A SAS No.: _____ SDG No.: A1926

Matrix: (soil/water) WATER Lab Sample ID: SBLKKQFMS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >Q9246

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

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 09/07/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/08/00

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/L	Q
606-20-2	2,6-Dinitrotoluene	42	
99-09-2	3-Nitroaniline	45	J
83-32-9	Acenaphthene	37	
51-28-5	2,4-Dinitrophenol	49	J
100-02-7	4-Nitrophenol	18	J
132-64-9	Dibenzofuran	40	
121-14-2	2,4-Dinitrotoluene	41	
84-66-2	Diethylphthalate	35	
7005-72-3	4-Chlorophenyl-phenylether	37	
86-73-7	Fluorene	37	
100-01-6	4-Nitroaniline	48	J
534-52-1	4,6-Dinitro-2-methylphenol	55	
86-30-6	N-Nitrosodiphenylamine (1)	45	
101-55-3	4-Bromophenyl-phenylether	37	
118-74-1	Hexachlorobenzene	45	
87-86-5	Pentachlorophenol	46	J
85-01-8	Phenanthrene	42	
120-12-7	Anthracene	43	
84-74-2	Di-n-butylphthalate	41	
206-44-0	Fluoranthene	42	
129-00-0	Pyrene	49	
85-68-7	Butylbenzylphthalate	48	
91-94-1	3,3'-Dichlorobenzidine	45	
56-55-3	Benzo(a)anthracene	42	
218-01-9	Chrysene	44	
117-81-7	bis(2-Ethylhexyl)phthalate	41	B
117-84-0	Di-n-octylphthalate	46	
205-99-2	Benzo(b)fluoranthene	43	
207-08-9	Benzo(k)fluoranthene	42	
50-32-8	Benzo(a)pyrene	42	
193-39-5	Indeno(1,2,3-cd)pyrene	41	
53-70-3	Dibenzo(a,h)anthracene	41	
191-24-2	Benzo(g,h,i)perylene	42	

(1) - Cannot be separated from Diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-09MS

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 1926A SAS No.: _____ SDG No.: A1926

Matrix: (soil/water) WATER Lab Sample ID: 001926A-09MS

Sample wt/vol: 910 (g/mL) ML Lab File ID: >Q9256

Level: (low/med) LOW Date Received: 09/06/00

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 09/07/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/08/00

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/L	Q
108-94-1	Cyclohexanone	24	
108-95-2	Phenol	32	
111-44-4	bis(2-Chloroethyl)ether	11	U
95-57-8	2-Chlorophenol	74	
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	29	
100-51-6	Benzyl alcohol	11	U
95-50-1	1,2-Dichlorobenzene	11	U
95-48-7	2-Methylphenol	11	U
108-60-1	bis(2-Chloroisopropyl)ether	11	U
106-44-5	4-Methylphenol	11	U
621-64-7	N-Nitroso-di-n-propylamine	42	
67-72-1	Hexachloroethane	11	U
98-95-3	Nitrobenzene	11	U
78-59-1	Isophorone	11	U
88-75-5	2-Nitrophenol	11	U
105-67-9	2,4-Dimethylphenol	11	U
65-85-0	Benzoic acid	55	U
111-91-1	bis(2-Chloroethoxy)methane	11	U
120-83-2	2,4-Dichlorophenol	.7	J
120-82-1	1,2,4-Trichlorobenzene	42	
91-20-3	Naphthalene	11	U
106-47-8	4-Chloroaniline	11	U
87-68-3	Hexachlorobutadiene	11	U
59-50-7	4-Chloro-3-methylphenol	77	
91-57-6	2-Methylnaphthalene	11	U
77-47-4	Hexachlorocyclopentadiene	11	U
88-06-2	2,4,6-Trichlorophenol	11	U
95-95-4	2,4,5-Trichlorophenol	55	U
91-58-7	2-Chloronaphthalene	11	U
88-74-4	2-Nitroaniline	55	U
131-11-3	Dimethylphthalate	11	U
208-96-8	Acenaphthylene	.2	J

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-09MS

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 1926A SAS No.: _____ SDG No.: A1926

Matrix: (soil/water) WATER Lab Sample ID: 001926A-09MS

Sample wt/vol: 910 (g/mL) ML Lab File ID: >Q9256

Level: (low/med) LOW Date Received: 09/06/00

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 09/07/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/08/00

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/L	Q
606-20-2	2,6-Dinitrotoluene	11	U
99-09-2	3-Nitroaniline	55	U
83-32-9	Acenaphthene	39	
51-28-5	2,4-Dinitrophenol	55	U
100-02-7	4-Nitrophenol	41	J
132-64-9	Dibenzofuran	11	U
121-14-2	2,4-Dinitrotoluene	46	
84-66-2	Diethylphthalate	.3	J
7005-72-3	4-Chlorophenyl-phenylether	11	U
86-73-7	Fluorene	11	U
100-01-6	4-Nitroaniline	55	U
534-52-1	4,6-Dinitro-2-methylphenol	55	U
86-30-6	N-Nitrosodiphenylamine (1)	11	U
101-55-3	4-Bromophenyl-phenylether	11	U
118-74-1	Hexachlorobenzene	11	U
87-86-5	Pentachlorophenol	110	E
85-01-8	Phenanthrene	11	U
120-12-7	Anthracene	11	U
84-74-2	Di-n-butylphthalate	11	U
206-44-0	Fluoranthene	11	U
129-00-0	Pyrene	38	
85-68-7	Butylbenzylphthalate	11	U
91-94-1	3,3'-Dichlorobenzidine	22	U
56-55-3	Benzo(a)anthracene	11	U
218-01-9	Chrysene	11	U
117-81-7	bis(2-Ethylhexyl)phthalate	11	U
117-84-0	Di-n-octylphthalate	11	U
205-99-2	Benzo(b)fluoranthene	11	U
207-08-9	Benzo(k)fluoranthene	11	U
50-32-8	Benzo(a)pyrene	11	U
193-39-5	Indeno(1,2,3-cd)pyrene	11	U
53-70-3	Dibenzo(a,h)anthracene	11	U
191-24-2	Benzo(g,h,i)perylene	11	U

(1) - Cannot be separated from Diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-09MSD

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 1926A SAS No.: _____ SDG No.: A1926

Matrix: (soil/water) WATER Lab Sample ID: 001926A-09MSD

Sample wt/vol: 820 (g/mL) ML Lab File ID: >Q9257

Level: (low/med) LOW Date Received: 09/06/00

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 09/07/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/08/00

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/L	Q
108-94-1	Cyclohexanone	25	
108-95-2	Phenol	35	
111-44-4	bis(2-Chloroethyl)ether	12	U
95-57-8	2-Chlorophenol	81	
541-73-1	1,3-Dichlorobenzene	12	U
106-46-7	1,4-Dichlorobenzene	33	
100-51-6	Benzyl alcohol	12	U
95-50-1	1,2-Dichlorobenzene	12	U
95-48-7	2-Methylphenol	12	U
108-60-1	bis(2-Chloroisopropyl)ether	12	U
106-44-5	4-Methylphenol	12	U
621-64-7	N-Nitroso-di-n-propylamine	43	
67-72-1	Hexachloroethane	12	U
98-95-3	Nitrobenzene	12	U
78-59-1	Isophorone	12	U
88-75-5	2-Nitrophenol	12	U
105-67-9	2,4-Dimethylphenol	12	U
65-85-0	Benzoic acid	61	U
111-91-1	bis(2-Chloroethoxy)methane	12	U
120-83-2	2,4-Dichlorophenol	.7	J
120-82-1	1,2,4-Trichlorobenzene	46	
91-20-3	Naphthalene	12	U
106-47-8	4-Chloroaniline	12	U
87-68-3	Hexachlorobutadiene	12	U
59-50-7	4-Chloro-3-methylphenol	87	
91-57-6	2-Methylnaphthalene	12	U
77-47-4	Hexachlorocyclopentadiene	12	U
88-06-2	2,4,6-Trichlorophenol	12	U
95-95-4	2,4,5-Trichlorophenol	61	U
91-58-7	2-Chloronaphthalene	12	U
88-74-4	2-Nitroaniline	61	U
131-11-3	Dimethylphthalate	12	U
208-96-8	Acenaphthylene	.2	J

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-09MSD

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 1926A SAS No.: _____ SDG No.: A1926

Matrix: (soil/water) WATER Lab Sample ID: 001926A-09MSD

Sample wt/vol: 820 (g/mL) ML Lab File ID: >Q9257

Level: (low/med) LOW Date Received: 09/06/00

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 09/07/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/08/00

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/L	Q
606-20-2	2,6-Dinitrotoluene	12	U
99-09-2	3-Nitroaniline	61	U
83-32-9	Acenaphthene	39	
51-28-5	2,4-Dinitrophenol	61	U
100-02-7	4-Nitrophenol	45	J
132-64-9	Dibenzofuran	12	U
121-14-2	2,4-Dinitrotoluene	51	
84-66-2	Diethylphthalate	.4	J
7005-72-3	4-Chlorophenyl-phenylether	12	U
86-73-7	Fluorene	12	U
100-01-6	4-Nitroaniline	61	U
534-52-1	4,6-Dinitro-2-methylphenol	61	U
86-30-6	N-Nitrosodiphenylamine (1)	12	U
101-55-3	4-Bromophenyl-phenylether	12	U
118-74-1	Hexachlorobenzene	12	U
87-86-5	Pentachlorophenol	120	E
85-01-8	Phenanthrene	12	U
120-12-7	Anthracene	12	U
84-74-2	Di-n-butylphthalate	12	U
206-44-0	Fluoranthene	12	U
129-00-0	Pyrene	46	
85-68-7	Butylbenzylphthalate	12	U
91-94-1	3,3'-Dichlorobenzidine	24	U
56-55-3	Benzo(a)anthracene	12	U
218-01-9	Chrysene	12	U
117-81-7	bis(2-Ethylhexyl)phthalate	.7	JB
117-84-0	Di-n-octylphthalate	12	U
205-99-2	Benzo(b)fluoranthene	12	U
207-08-9	Benzo(k)fluoranthene	12	U
50-32-8	Benzo(a)pyrene	12	U
193-39-5	Indeno(1,2,3-cd)pyrene	12	U
53-70-3	Dibenzo(a,h)anthracene	12	U
191-24-2	Benzo(g,h,i)perylene	12	U

(1) - Cannot be separated from Diphenylamine

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COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 1926A SAS No.: _____ SDG No.: A1926

SOW No.: ILM04.0

Field Sample ID	Lab Sample ID.
SW-01	F001926A-01
SW-02	F001926A-02
SW-03	F001926A-03
SW-70	F001926A-04
SW-05	F001926A-05
SW-06	F001926A-06
SW-07	F001926A-07
SW-08	F001926A-08
SW-09D	F001926A-09D
SW-09S	F001926A-09S
SW-09	F001926A-09
FIELD BLANK	F001926A-10
SW-01	T001926A-01
SW-02	T001926A-02
SW-03	T001926A-03
SW-70	T001926A-04
SW-05	T001926A-05
SW-06	T001926A-06
SW-07	T001926A-07
SW-08	T001926A-08

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES
If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Daniel W. Helfrich Name: Daniel W. Helfrich

Date: 9/26/06 Title: Group Leader

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COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 1926A SAS No.: _____ SDG No.: A1926

SOW No.: ILM04.0

Field Sample ID	Lab Sample ID.
SW-09D	T001926A-09D
SW-09S	T001926A-09S
SW-09	T001926A-09
FIELD BLANK	T001926A-10

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES
If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: [signature] Name: David W. Holford

Date: 9/26/00 Title: Group Leader

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1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-01

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 1926A SAS No.: _____ SDG No.: A1926

Matrix (soil/water): WATER Lab Sample ID: F001926A-01

Level (low/med): LOW Date Received: 09/06/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	2.0	U		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Filtered Metals

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-02

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 1926A SAS No.: _____ SDG No.: A1926

Matrix (soil/water): WATER Lab Sample ID: F001926A-02

Level (low/med): LOW Date Received: 09/06/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	2.0	U		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Filtered Metals

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-03

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 1926A SAS No.: _____ SDG No.: A1926

Matrix (soil/water): WATER Lab Sample ID: F001926A-03

Level (low/med): LOW Date Received: 09/06/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	5.7	B		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Filtered Metals

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1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-70

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 1926A SAS No.: _____ SDG No.: A1926

Matrix (soil/water): WATER Lab Sample ID: F001926A-04

Level (low/med): LOW Date Received: 09/06/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	2.0	U		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Filtered Metals

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-05

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 1926A SAS No.: _____ SDG No.: A1926

Matrix (soil/water): WATER Lab Sample ID: F001926A-05

Level (low/med): LOW Date Received: 09/06/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	20.8			P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Filtered Metals

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-06

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 1926A SAS No.: _____ SDG No.: A1926

Matrix (soil/water): WATER Lab Sample ID: F001926A-06

Level (low/med): LOW Date Received: 09/06/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	7.0	B		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Filtered Metals

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-07

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 1926A SAS No.: _____ SDG No.: A1926

Matrix (soil/water): WATER Lab Sample ID: F001926A-07

Level (low/med): LOW Date Received: 09/06/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	2.0	U		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Filtered Metals

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-08

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 1926A SAS No.: _____ SDG No.: A1926

Matrix (soil/water): WATER Lab Sample ID: F001926A-08

Level (low/med): LOW Date Received: 09/06/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	2.0	U		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Filtered Metals

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-09

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 1926A SAS No.: _____ SDG No.: A1926

Matrix (soil/water): WATER Lab Sample ID: F001926A-09

Level (low/med): LOW Date Received: 09/06/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	2.0	B		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Filtered Metals

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

FIELD BLANK

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 1926A SAS No.: _____ SDG No.: A1926

Matrix (soil/water): WATER Lab Sample ID: F001926A-10

Level (low/med): LOW Date Received: 09/06/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	2.0	U		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Filtered Metals

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1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-01

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 1926A SAS No.: _____ SDG No.: A1926

Matrix (soil/water): WATER Lab Sample ID: T001926A-01

Level (low/med): LOW Date Received: 09/06/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	2.8	B		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium	1.5	B		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	1.3	B		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Total Metals

U.S. EPA - CLP

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-02

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 1926A SAS No.: _____ SDG No.: A1926

Matrix (soil/water): WATER Lab Sample ID: T001926A-02

Level (low/med): LOW Date Received: 09/06/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	2.0	U		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium	1.0	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	12.5			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Total Metals

U.S. EPA - CLP

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-03

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 1926A SAS No.: _____ SDG No.: A1926

Matrix (soil/water): WATER Lab Sample ID: T001926A-03

Level (low/med): LOW Date Received: 09/06/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	5.8	B		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium	1.0	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	1.3	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Total Metals

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-70

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 1926A SAS No.: _____ SDG No.: A1926

Matrix (soil/water): WATER Lab Sample ID: T001926A-04

Level (low/med): LOW Date Received: 09/06/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	2.0	U		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium	1.0	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	1.9	B		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Total Metals

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-05

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 1926A SAS No.: _____ SDG No.: A1926

Matrix (soil/water): WATER Lab Sample ID: T001926A-05

Level (low/med): LOW Date Received: 09/06/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	19.8			P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium	3.3	B		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	9.1			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Total Metals

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-06

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 1926A SAS No.: _____ SDG No.: A1926

Matrix (soil/water): WATER Lab Sample ID: T001926A-06

Level (low/med): LOW Date Received: 09/06/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	6.8	B		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium	1.0	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	1.9	B		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Total Metals

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-07

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 1926A SAS No.: _____ SDG No.: A1926

Matrix (soil/water): WATER Lab Sample ID: T001926A-07

Level (low/med): LOW Date Received: 09/06/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	2.0	U		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium	1.0	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	1.3	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Total Metals

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-08

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 1926A SAS No.: _____ SDG No.: A1926

Matrix (soil/water): WATER Lab Sample ID: T001926A-08

Level (low/med): LOW Date Received: 09/06/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	2.0	U		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium	3.2	B		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	3.6			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Total Metals

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-09

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 1926A SAS No.: _____ SDG No.: A1926

Matrix (soil/water): WATER Lab Sample ID: T001926A-09

Level (low/med): LOW Date Received: 09/06/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	102.	B		P
7440-36-0	Antimony	2.1	U		P
7440-38-2	Arsenic	22.0			P
7440-39-3	Barium	30.4	B		P
7440-41-7	Beryllium	0.20	U		P
7440-43-9	Cadmium	0.40	U		P
7440-70-2	Calcium	42000			P
7440-47-3	Chromium	4.2	B		P
7440-48-4	Cobalt	1.4	B		P
7440-50-8	Copper	9.9	B		P
7439-89-6	Iron	2400			P
7439-92-1	Lead	2.8	B		P
7439-95-4	Magnesium	6230			P
7439-96-5	Manganese	426.			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	1.4	B		P
7440-09-7	Potassium	6200			P
7782-49-2	Selenium	3.4	B		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	40700			P
7440-28-0	Thallium	3.8	U		P
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	146.			P
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Total Metals

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

FIELD BLANK

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 1926A SAS No.: _____ SDG No.: A1926

Matrix (soil/water): WATER Lab Sample ID: T001926A-10

Level (low/med): LOW Date Received: 09/06/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	10.5	U		P
7440-36-0	Antimony	2.1	U		P
7440-38-2	Arsenic	2.0	U		P
7440-39-3	Barium	4.9	B		P
7440-41-7	Beryllium	0.20	U		P
7440-43-9	Cadmium	0.40	U		P
7440-70-2	Calcium	20000			P
7440-47-3	Chromium	1.0	U		P
7440-48-4	Cobalt	0.50	U		P
7440-50-8	Copper	2.4	B		P
7439-89-6	Iron	68.8	B		P
7439-92-1	Lead	1.3	U		P
7439-95-4	Magnesium	2960	B		P
7439-96-5	Manganese	11.8	B		P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	1.0	U		P
7440-09-7	Potassium	676.	B		P
7782-49-2	Selenium	4.0	B		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	7790			P
7440-28-0	Thallium	3.8	U		P
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	9.8	B		P
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Total Metals

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U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A1926

Initial Calibration Source: INORG. VENT.

Continuing Calibration Source: INORG. VENT.

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum	11000.0	10849.64	98.6	5500.0	5757.40	104.7	5315.98	96.6	P
Antimony	1000.0	983.93	98.4	500.0	515.71	103.1	482.23	96.4	P
Arsenic	1000.0	965.20	96.5	500.0	502.60	100.5	474.34	94.9	P
Barium	1000.0	979.39	97.9	500.0	508.57	101.7	476.55	95.3	P
Beryllium	1000.0	982.61	98.3	500.0	516.99	103.4	485.54	97.1	P
Cadmium	1000.0	982.36	98.2	500.0	509.45	101.9	477.78	95.6	P
Calcium	2000.0	2014.27	100.7	17700.0	18230.74	103.0	17054.49	96.4	P
Chromium	1000.0	986.33	98.6	500.0	512.71	102.5	480.21	96.0	P
Cobalt	1000.0	989.83	99.0	500.0	506.67	101.3	475.71	95.1	P
Copper	1000.0	978.73	97.9	500.0	503.76	100.8	471.70	94.3	P
Iron	11000.0	11010.22	100.1	5500.0	5716.90	103.9	5337.84	97.0	P
Lead	1000.0	992.05	99.2	500.0	508.08	101.6	479.47	95.9	P
Magnesium	2000.0	2019.13	101.0	17700.0	17859.82	100.9	16853.20	95.2	P
Manganese	1000.0	990.02	99.0	500.0	509.76	102.0	479.39	95.9	P
Mercury	5.0	5.49	109.8	5.0	5.73	114.6	5.82	116.4	CV
Nickel	1000.0	970.09	97.0	500.0	495.26	99.0	466.01	93.2	P
Potassium	27000.0	25102.79	93.0	21000.0	22349.32	106.4	20840.79	99.2	P
Selenium	1000.0	974.02	97.4	500.0	513.09	102.6	483.46	96.7	P
Silver	100.0	100.82	100.8	50.0	52.43	104.9	49.28	98.6	P
Sodium	2000.0	2143.64	107.2	17700.0	19022.25	107.5	17811.70	100.6	P
Thallium	1000.0	991.92	99.2	500.0	515.27	103.0	498.10	99.6	P
Vanadium	1000.0	996.12	99.6	500.0	522.50	104.5	488.86	97.8	P
Zinc	1000.0	989.52	99.0	500.0	511.87	102.4	479.81	96.0	P
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110 ; Cyanide 85-115;

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U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A1926

Initial Calibration Source: INORG. VENT.

Continuing Calibration Source: INORG. VENT.

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum				5500.0	5166.04	93.9	5417.80	98.5	P
Antimony				500.0	469.22	93.8	488.73	97.7	P
Arsenic				500.0	463.56	92.7	484.06	96.8	P
Barium				500.0	462.64	92.5	479.95	96.0	P
Beryllium				500.0	472.10	94.4	492.83	98.6	P
Cadmium				500.0	465.59	93.1	485.11	97.0	P
Calcium				17700.0	16626.37	93.9	17490.41	98.8	P
Chromium				500.0	465.65	93.1	486.54	97.3	P
Cobalt				500.0	461.96	92.4	481.58	96.3	P
Copper				500.0	457.70	91.5	477.23	95.4	P
Iron				5500.0	5195.91	94.5	5405.09	98.3	P
Lead				500.0	466.39	93.3	487.26	97.4	P
Magnesium				17700.0	16438.11	92.9	17277.77	97.6	P
Manganese				500.0	465.00	93.0	485.21	97.0	P
Mercury				5.0	5.73	114.6	5.86	117.2	CV
Nickel				500.0	453.48	90.7	472.95	94.6	P
Potassium				21000.0	20256.07	96.4	21188.06	100.9	P
Selenium				500.0	471.32	94.3	491.23	98.2	P
Silver				50.0	47.96	95.9	49.51	99.0	P
Sodium				17700.0	17365.28	98.1	18099.96	102.2	P
Thallium				500.0	474.04	94.8	489.15	97.8	P
Vanadium				500.0	474.32	94.9	493.76	98.8	P
Zinc				500.0	468.05	93.6	489.41	97.9	P
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110 ; Cyanide 85-115;

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U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A1926

Initial Calibration Source: INORG. VENT.

Continuing Calibration Source: INORG. VENT.

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum				5500.0	5475.91	99.6			P
Antimony				500.0	494.36	98.9			P
Arsenic				500.0	488.90	97.8			P
Barium				500.0	480.73	96.1			P
Beryllium				500.0	497.93	99.6			P
Cadmium				500.0	492.75	98.6			P
Calcium				17700.0	17772.62	100.4			P
Chromium				500.0	490.00	98.0			P
Cobalt				500.0	486.77	97.4			P
Copper				500.0	477.09	95.4			P
Iron				5500.0	5495.38	99.9			P
Lead				500.0	493.24	98.6			P
Magnesium				17700.0	17507.73	98.9			P
Manganese				500.0	488.28	97.6			P
Mercury	5.0	5.20	104.0	5.0	5.31	106.2	5.48	109.6	CV
Nickel				500.0	480.37	96.1			P
Potassium				21000.0	21041.88	100.2			P
Selenium				500.0	496.95	99.4			P
Silver				50.0	49.53	99.1			P
Sodium				17700.0	18186.92	102.8			P
Thallium				500.0	502.00	100.4			P
Vanadium				500.0	495.31	99.1			P
Zinc				500.0	498.55	99.7			P
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110 ; Cyanide 85-115;

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2B
CRDL STANDARD FOR AA AND ICP

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A1926

AA CRDL Standard Source: INORG. VENT.

ICP CRDL Standard Source: INORG. VENT.

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R(1)	True	Initial Found	%R(1)	Final Found	%R(1)
Aluminum								
Antimony				120.0	125.69	104.7	120.48	100.4
Arsenic				20.0 ~~4.0~~	20.40	~~510.2~~	19.00	~~475.1~~
Barium						102.0		95.0
Beryllium				10.0	10.28	102.8	9.92	99.2
Cadmium				10.0	10.71	107.1	10.24	102.4
Calcium								
Chromium				20.0	21.17	105.9	20.26	101.3
Cobalt				100.0	103.50	103.5	100.17	100.2
Copper				50.0	51.78	103.6	49.05	98.1
Iron								
Lead				6.0 ~~2.6~~	5.89	~~226.8~~	6.01	~~231.5~~
Magnesium						98.2		100.2
Manganese				30.0	31.64	105.5	30.39	101.3
Mercury								
Nickel				80.0	82.30	102.9	81.13	101.4
Potassium								
Selenium				6.8	9.94	146.2	13.31	195.8
Silver				20.0	21.89	109.5	20.51	102.6
Sodium								
Thallium				20.0	22.64	113.2	22.40	112.0
Vanadium				100.0	104.01	104.0	99.67	99.7
Zinc				40.0	40.86	102.2	39.53	98.8
Cyanide								

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BLANKS

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A1926

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	10.5	U	24.6	B	10.5	U	10.5	U	10.500	U	P
Antimony	2.1	U	2.1	U	2.1	U	2.1	U	2.100	U	P
Arsenic	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	P
Barium	0.2	U	0.2	U	0.2	U	0.2	U	0.200	U	P
Beryllium	0.2	U	0.2	U	0.2	U	0.2	U	0.200	U	P
Cadmium	0.4	U	0.4	U	0.4	U	0.4	U	0.400	U	P
Calcium	4.3	U	31.5	B	4.3	U	4.3	U	11.358	B	P
Chromium	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Cobalt	0.5	U	0.5	U	0.5	U	0.5	U	0.500	U	P
Copper	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Iron	9.3	U	11.7	B	9.3	U	9.3	U	9.300	U	P
Lead	1.3	U	1.3	U	1.3	U	1.3	U	1.300	U	P
Magnesium	7.0	U	30.0	B	7.0	U	7.0	U	9.491	B	P
Manganese	0.2	U	0.2	U	0.2	U	0.2	U	0.200	U	P
Mercury	0.1	U	0.1	U	0.1	U	0.1	U	0.100	U	CV
Nickel	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Potassium	98.0	U	98.0	U	98.0	U	98.0	U	98.000	U	P
Selenium	3.4	U	3.4	U	4.4	B	3.4	U	3.400	U	P
Silver	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Sodium	19.5	U	19.5	U	19.5	U	19.5	U	19.500	U	P
Thallium	3.8	U	3.8	U	3.8	U	3.8	U	3.800	U	P
Vanadium	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Zinc	1.0	B	0.4	U	0.4	U	0.8	B	0.400	U	P
Cyanide											NR

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3
BLANKS

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A1926

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum			10.5	U	32.4	B					P
Antimony			2.1	U	2.5	B					P
Arsenic			2.0	U	2.0	U					P
Barium			0.3	B	0.2	U					P
Beryllium			0.2	U	0.2	U					P
Cadmium			0.4	U	0.4	U					P
Calcium			7.4	B	31.5	B					P
Chromium			1.0	U	1.0	U					P
Cobalt			0.5	U	0.5	U					P
Copper			1.0	U	1.0	U					P
Iron			9.3	U	12.5	B					P
Lead			1.3	U	1.3	U					P
Magnesium			7.0	U	31.8	B					P
Manganese			0.2	U	0.2	U					P
Mercury			0.1	U							CV
Nickel			1.0	U	1.0	U					P
Potassium			98.0	U	98.0	U					P
Selenium			3.4	U	3.4	U					P
Silver			1.0	U	1.0	U					P
Sodium			19.5	U	19.5	U					P
Thallium			3.8	U	3.8	U					P
Vanadium			1.0	U	1.0	U					P
Zinc			0.4	U	1.0	B					P
Cyanide											NR

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3
BLANKS

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A1926

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead											NR
Magnesium											NR
Manganese											NR
Mercury	0.1	U	0.1	U	0.1	U					CV
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

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U.S. EPA - CLP

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ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A1926

ID Number: JA61 ICS Source: EPA-LV87

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	%R	Final Found Sol. A	Final Found Sol. AB	%R
Aluminum	500000	500000	539449	529120.9	105.8	501997	499581.9	99.9
Antimony		600	2	632.8	105.4	3	602.4	100.4
Arsenic		100	-3	101.7	101.7	0	96.6	96.6
Barium		500	2	526.6	105.3	2	496.4	99.2
Beryllium		500	0	520.9	104.1	0	500.7	100.1
Cadmium		1000	3	951.9	95.1	2	921.8	92.1
Calcium	500000	500000	504399	494249.7	98.8	477262	477076.3	95.4
Chromium		500	2	495.9	99.1	1	473.5	94.7
Cobalt		500	-4	470.9	94.1	-4	452.1	90.4
Copper		500	-4	532.8	106.5	-4	502.1	100.4
Iron	200000	200000	198653	195296.4	97.6	187371	187233.5	93.6
Lead		50	-6	39.0	78.0	-4	42.1	84.3
Magnesium	500000	500000	550036	537524.8	107.5	521508	519947.8	103.9
Manganese		500	-4	491.7	98.3	-4	468.9	93.7
Mercury								
Nickel		1000	0	925.4	92.5	-1	894.5	89.4
Potassium			144	93.3		33	16.8	
Selenium		50	-1	53.2	106.4	6	54.5	109.0
Silver		200	0	227.3	113.6	0	213.1	106.5
Sodium			23	21.7		15	16.2	
Thallium		100	-8	91.1	91.1	-8	88.0	88.0
Vanadium		500	-1	512.6	102.5	-1	484.8	96.9
Zinc		1000	-8	936.1	93.6	-8	909.1	90.9
Cyanide								

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

SW-09S

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 1926A SAS No.: _____ SDG No.: A1926

Matrix: WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony									NR
Arsenic	75-125	41.9293		2.0266	B	40.00	99.8		P
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

Comments:
Filtered Metals

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U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

SW-09S

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 1926A SAS No.: _____ SDG No.: A1926

Matrix: WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum	75-125	2000.8550		102.1083	B	2000.00	94.9		P
Antimony	75-125	482.6961		2.1000	U	500.00	96.5		P
Arsenic	75-125	62.2060		22.0555		40.00	100.4		P
Barium	75-125	1880.9840		30.3798	B	2000.00	92.5		P
Beryllium	75-125	49.2768		0.2000	U	50.00	98.6		P
Cadmium	75-125	4.8589	B	0.4000	U	5.00	97.2		P
Calcium				42034.3200		0.00	0.0		P
Chromium	75-125	190.5328		4.2534	B	200.00	93.1		P
Cobalt	75-125	462.4577		1.3951	B	500.00	92.2		P
Copper	75-125	241.1379		9.9320	B	250.00	92.5		P
Iron	75-125	3337.0340		2395.5130		1000.00	94.2		P
Lead	75-125	20.6791		2.7801	B	20.00	89.5		P
Magnesium				6230.3600		0.00	0.0		P
Manganese	75-125	888.7830		426.0967		500.00	92.5		P
Mercury	75-125	1.0300		0.1000	U	1.00	103.0		CV
Nickel	75-125	463.7824		1.3778	B	500.00	92.5		P
Potassium				6201.8510		0.00	0.0		P
Selenium	75-125	12.1889		3.4226	B	10.00	87.7		P
Silver	75-125	46.5550		1.0000	U	50.00	93.1		P
Sodium				40709.5000		0.00	0.0		P
Thallium	75-125	46.9358		3.8000	U	50.00	93.9		P
Vanadium	75-125	468.9770		1.0000	U	500.00	93.8		P
Zinc	75-125	612.4818		146.4429		500.00	93.2		P
Cyanide									NR

Comments:
Total Metals

U.S. EPA - CLP

6
DUPLICATES

EPA SAMPLE NO.

SW-09D

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 1926A SAS No.: _____ SDG No.: A1926

Matrix: WATER Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								NR
Antimony								NR
Arsenic		2.0266	B	2.8154	B	32.6		P
Barium								NR
Beryllium								NR
Cadmium								NR
Calcium								NR
Chromium								NR
Cobalt								NR
Copper								NR
Iron								NR
Lead								NR
Magnesium								NR
Manganese								NR
Mercury								NR
Nickel								NR
Potassium								NR
Selenium								NR
Silver								NR
Sodium								NR
Thallium								NR
Vanadium								NR
Zinc								NR
Cyanide								NR

Filtered Metals

U.S. EPA - CLP

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6
DUPLICATES

EPA SAMPLE NO.

SW-09D

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 1926A SAS No.: _____ SDG No.: A1926

Matrix: WATER Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		102.1083	B	105.7095	B	3.5		P
Antimony		2.1000	U	2.1000	U			P
Arsenic	.0	22.0555		22.6649		2.7		P
Barium		30.3798	B	30.9680	B	1.9		P
Beryllium		0.2000	U	0.2000	U			P
Cadmium		0.4000	U	0.4000	U			P
Calcium		42034.3200		43081.8000		2.5		P
Chromium		4.2534	B	4.8251	B	12.6		P
Cobalt		1.3951	B	1.6643	B	17.6		P
Copper		9.9320	B	16.7169	B	50.9		P
Iron		2395.5130		2437.8710		1.8		P
Lead		2.7801	B	2.4416	B	13.0		P
Magnesium	.0	6230.3600		6400.1020		2.7		P
Manganese		426.0967		434.8446		2.0		P
Mercury		0.1000	U	0.1000	U			CV
Nickel		1.3778	B	2.0260	B	38.1		P
Potassium	.0	6201.8510		6303.2840		1.6		P
Selenium		3.4226	B	3.4000	U	200.0		P
Silver		1.0000	U	1.0000	U			P
Sodium		40709.5000		41239.0200		1.3		P
Thallium		3.8000	U	4.0334	B	200.0		P
Vanadium		1.0000	U	1.0000	U			P
Zinc		146.4429		151.2992		3.3		P
Cyanide								NR

Total Metals

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LABORATORY CONTROL SAMPLE

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A1926

Solid LCS Source: _____

Aqueous LCS Source: INORG. VENT.

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum	3000.0	2729.76	91.0						
Antimony	1000.0	926.52	92.6						
Arsenic	1000.0	914.05	91.4						
Barium	300.0	272.83	90.9						
Beryllium	100.0	94.75	94.8						
Cadmium	300.0	270.29	90.1						
Calcium	15000.0	13769.19	91.8						
Chromium	300.0	274.89	91.6						
Cobalt	300.0	275.31	91.8						
Copper	300.0	270.99	90.3						
Iron	12500.0	11437.97	91.5						
Lead	1000.0	908.20	90.8						
Magnesium	7500.0	6883.26	91.8						
Manganese	200.0	181.90	91.0						
Mercury	5.0	5.81	116.2						
Nickel	300.0	273.69	91.2						
Potassium	20000.0	16348.45	81.7						
Selenium	500.0	475.56	95.1						
Silver	300.0	284.96	95.0						
Sodium	2500.0	2449.28	98.0						
Thallium	1000.0	926.64	92.7						
Vanadium	300.0	275.46	91.8						
Zinc	300.0	283.89	94.6						
Cyanide									

Total Metals

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8
STANDARD ADDITION RESULTS

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A1926

Concentration Units: ug/L

EPA Sample No.	An	0 ADD ABS	1 ADD CON	1 ADD ABS	2 ADD CON	2 ADD ABS	3 ADD CON	3 ADD ABS	Final Conc.	r	Q

U.S. EPA - CLP

9
ICP SERIAL DILUTIONS

EPA SAMPLE NO.

SW-09L

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 1926A SAS No.: _____ SDG No.: A1926

Matrix(soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Differ-ence	Q	M
Aluminum							NR
Antimony							NR
Arsenic	2.03	B	10.00	U	100.0		P
Barium							NR
Beryllium							NR
Cadmium							NR
Calcium							NR
Chromium							NR
Cobalt							NR
Copper							NR
Iron							NR
Lead							NR
Magnesium							NR
Manganese							NR
Mercury							NR
Nickel							NR
Potassium							NR
Selenium							NR
Silver							NR
Sodium							NR
Thallium							NR
Vanadium							NR
Zinc							NR
Cyanide							NR

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ICP SERIAL DILUTIONS

EPA SAMPLE NO.

SW-09L

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 1926A SAS No.: _____ SDG No.: A1926

Matrix(soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	102.11	B	105.91	B	3.7		P
Antimony	2.10	U	10.50	U			P
Arsenic	22.06		11.70	B	47.0		P
Barium	30.38	B	31.63	B	4.1		P
Beryllium	0.20	U	1.00	U			P
Cadmium	0.40	U	2.00	U			P
Calcium	42034.32		43175.22		2.7		P
Chromium	4.25	B	5.12	B	20.5		P
Cobalt	1.40	B	2.57	B	84.6		P
Copper	9.93	B	9.03	B	9.0		P
Iron	2395.51		2514.46		5.0		P
Lead	2.78	B	6.50	U	100.0		P
Magnesium	6230.36		6426.98	B	3.2		P
Manganese	426.10		443.02		4.0		P
Mercury							NR
Nickel	1.38	B	5.00	U	100.0		P
Potassium	6201.85		5181.28	B	16.5		P
Selenium	3.42	B	17.00	U	100.0		P
Silver	1.00	U	5.00	U			P
Sodium	40709.50		39831.60		2.2		P
Thallium	3.80	U	19.00	U			P
Vanadium	1.00	U	5.00	U			P
Zinc	146.44		176.66		20.6		P
Cyanide							NR

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10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A1926

ICP ID Number: JA61 Date: 10/01/00

Flame AA ID Number: _____

Furnace AA ID Number: _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	208.20		200.0	10.0	P
Antimony	206.83		60.0	5.0	P
Arsenic	193.60		10.0	2.5	P
Barium	493.40		200.0	.5	P
Beryllium	234.86		5.0	.5	P
Cadmium	228.80		5.0	.5	P
Calcium	317.93		5000.0	10.0	P
Chromium	267.70		10.0	1.0	P
Cobalt	228.61		50.0	1.0	P
Copper	324.75		25.0	1.0	P
Iron	271.44		100.0	10.0	P
Lead	220.35		3.0	2.0	P
Magnesium	279.07		5000.0	10.0	P
Manganese	257.61		15.0	1.0	P
Mercury			.2		
Nickel	231.60		40.0	1.5	P
Potassium	766.49		5000.0	200.0	P
Selenium	196.02		5.0	5.0	P
Silver	328.06		10.0	1.0	P
Sodium	589.59		5000.0	20.0	P
Thallium	189.90		10.0	6.0	P
Vanadium	292.40		50.0	1.0	P
Zinc	213.85		20.0	5.0	P

Comments:

U.S. EPA - CLP

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10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A1926

ICP ID Number: _____ Date: 10/01/00

Flame AA ID Number: HG4

Furnace AA ID Number: _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200.0		
Antimony			60.0		
Arsenic			10.0		
Barium			200.0		
Beryllium			5.0		
Cadmium			5.0		
Calcium			5000.0		
Chromium			10.0		
Cobalt			50.0		
Copper			25.0		
Iron			100.0		
Lead			3.0		
Magnesium			5000.0		
Manganese			15.0		
Mercury	253.70		.2	.1	CV
Nickel			40.0		
Potassium			5000.0		
Selenium			5.0		
Silver			10.0		
Sodium			5000.0		
Thallium			10.0		
Vanadium			50.0		
Zinc			20.0		

Comments:

1/2 Rev

U.S. EPA - CLP

11A
ICP Interelement correction Factors (Annually)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A1926

ICP ID Number: JA61 Date: 06/05/00

Analyte	Wave-length (nm)	Interelement Correction Factors for : Al	Ca	Fe	Mg	Ag
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic						
Barium	493.40	0.0000000	2.3516000	0.0000000	0.0000000	0.0000000
Beryllium	234.86	0.0000000	-2.1540000	0.0000000	0.0000000	0.0000000
Cadmium	228.80	-.0014590	1.1105000	0.0000000	0.0000000	0.0000000
Calcium	317.93	.0086205	0.0000000	0.0000000	.0081618	0.0000000
Chromium	267.70	.0018652		-.0011680	-3.0940000	0.0000000
Cobalt	228.61	0.0000000		.0060000	-13.4160000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	-.4786330
Iron	271.44	.0033661	0.0000000	0.0000000	-.0291150	0.0000000
Lead	220.35	0.0000000	1.9097000	0.0000000	0.0000000	0.0000000
Magnesium	279.07	.0071408	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	-.1392250	.5557496
Mercury						
Nickel	231.60	-.0027450	3.1950000	0.0000000	0.0000000	-.1560630
Potassium	766.49	-.0079430	0.0000000	0.0000000	0.0000000	0.0000000
Selenium						
Silver	328.06	0.0000000		0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000		0.0000000	0.0000000	0.0000000
Thallium						
Vanadium	292.40	0.0000000	0.0000000	-.0040180	0.0000000	.4159166
Zinc	213.85	.0009443	8.7485000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP

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11B
ICP Interelement correction Factors (Annually)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A1926

ICP ID Number: JA61 Date: 06/05/00

Analyte	Wave-length (nm)	Interelement Correction Factors for : As	B	Ba	Be	Cd
Aluminum	308.21	3.9599940	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	.2221185	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic						
Barium	493.40	0.0000000	0.0000000	0.0000000	.0020452	0.0000000
Beryllium	234.86	2.2054610	0.0000000	3.3925410	0.0000000	.2991092
Cadmium	228.80	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	5.8517630	0.0000000
Chromium	267.70	-6.3830600	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.61	-.4015400	0.0000000	0.0000000	.0524210	.2877358
Copper	324.75	0.0000000	-14.5688000	0.0000000	0.0000000	0.0000000
Iron	271.44	-2.8353600	0.0000000	1.2696520	.0123381	-1.7637400
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.07	-1.9608300	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	.7548212	0.0000000	0.0000000	0.0000000	.0286714
Mercury						
Nickel	231.60	-.3004870	0.0000000	0.0000000	-.0254260	1.6268810
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium						
Silver	328.06	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium						
Vanadium	292.40	-1.4987800	0.0000000	0.0000000	.0845908	.0375521
Zinc	213.85	-1.3146900	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP

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11B
ICP Interelement correction Factors (Annually)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A1926

ICP ID Number: JA61 Date: 06/05/00

Analyte	Wave-length (nm)	Interelement Correction Factors for : Co	Cr	Cu	K	Mn
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0000000	.8822868
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic						
Barium	493.40	.4458370	0.0000000	0.0000000	0.0000000	-.1513210
Beryllium	234.86	0.0000000	-.1224680	0.0000000	0.0000000	0.0000000
Cadmium	228.80	-2.0803500	-1.0195500	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0000000	.9515125	0.0000000	0.0000000	0.0000000
Chromium	267.70	1.2502400	0.0000000	0.0000000	0.0000000	-.0417720
Cobalt	228.61	0.0000000	.0772782	0.0000000	0.0000000	-.0267550
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	-5.5184100	0.0000000	2.1567660	0.0000000	-3.4565100
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.07	0.0000000	1.3531870	0.0000000	.6270879	.1854641
Manganese	257.61	0.0000000	-.5727500	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	-.0428020	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium						
Silver	328.06	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium						
Vanadium	292.40	0.0000000	.4646357	-.7459740	0.0000000	-.4539330
Zinc	213.85	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

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11B
ICP Interelement correction Factors (Annually)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A1926

ICP ID Number: JA61 Date: 06/05/00

Analyte	Wave-length (nm)	Interelement Correction Factors for : Mo	Na	Ni	Pb	Sb
Aluminum	308.21	0.0000000	0.0000000	0.0000000	7.4656990	.4182633
Antimony	206.83	0.0000000	.0959060	5.1763370	1.2997970	0.0000000
Arsenic						
Barium	493.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.86	0.0000000	0.0000000	-.0145800	0.0000000	-1.6234400
Cadmium	228.80	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0000000	.0105777	0.0000000	0.0000000	-1.3041900
Chromium	267.70	1.5194300	0.0000000	.4416338	-.1202820	7.7030790
Cobalt	228.61	-.0124570	0.0000000	2.2201410	.6915992	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	-3.6280800	0.0000000
Iron	271.44	-1.3566400	0.0000000	.5093932	.5134977	1.1269720
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.07	0.0000000	0.0000000	0.0000000	-.5954890	2.3300000
Manganese	257.61	0.0000000	0.0000000	0.0000000	4.4615890	0.0000000
Mercury						
Nickel	231.60	5.5485240	0.0000000	0.0000000	-.2555120	2.1088370
Potassium	766.49	0.0000000	.1218416	0.0000000	0.0000000	0.0000000
Selenium						
Silver	328.06	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium						
Vanadium	292.40	.9487286	0.0000000	0.0000000	-1.4936400	-.4668710
Zinc	213.85	0.0000000	0.0000000	0.0000000	0.0000000	-.6141440

Comments:

U.S. EPA - CLP

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11B
ICP Interelement correction Factors (Annually)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A1926

ICP ID Number: JA61 Date: 06/05/00

Analyte	Wave-length (nm)	Interelement Correction Factors for : Se	Sn	Ti	Tl	V
Aluminum	308.21	6.2168040	.3024854	0.0000000	0.0000000	0.0000000
Antimony	206.83	3.0897440	-.6053750	0.0000000	0.0000000	0.0000000
Arsenic						
Barium	493.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.86	0.0000000	.6761988	0.0000000	0.0000000	0.0000000
Cadmium	228.80	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.93	1.7640180	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.70	0.0000000	.2208577	.9567213	4.5557730	1.2170310
Cobalt	228.61	2.5668270	.4390100	-.0063100	-6.0023600	0.0000000
Copper	324.75	.0519865	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	-1.8581700	.0754601	0.0000000	0.0000000	0.0000000
Lead	220.35	.9428241	1.1606640	0.0000000	0.0000000	0.0000000
Magnesium	279.07	-.0000450	-.0000240	.0131000	0.0000000	-.0050000
Manganese	257.61	2.4119190	-.3639270	0.0000000	-1.1010300	.9414657
Mercury						
Nickel	231.60	0.0000000	-.7297880	0.0000000	0.0000000	0.0000000
Potassium	766.49	5.3734670	0.0000000	0.0000000	0.0000000	0.0000000
Selenium						
Silver	328.06	.5868963	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	3.1253820	0.0000000	0.0000000	0.0000000	0.0000000
Thallium						
Vanadium	292.40	-.0953390	-.3701520	0.0000000	2.6711040	0.0000000
Zinc	213.85	.1325478	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

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ICP Interelement correction Factors (Annually)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A1926

ICP ID Number: JA61 Date: 06/05/00

Analyte	Wave-length (nm)	Interelement Correction Factors for : Zn	Zr			
Aluminum	308.21	0.0000000	0.0000000			
Antimony	206.83	-1.0792400	0.0000000			
Arsenic						
Barium	493.40	-.1870990	0.0000000			
Beryllium	234.86	0.0000000	0.0000000			
Cadmium	228.80	0.0000000	0.0000000			
Calcium	317.93	-.4802940	.8045480			
Chromium	267.70	0.0000000	-.0096980			
Cobalt	228.61	-1.6896500	1.0255960			
Copper	324.75	-1.9375200	0.0000000			
Iron	271.44	3.6036430	0.0000000			
Lead	220.35	0.0000000	0.0000000			
Magnesium	279.07	0.0000000	0.0000000			
Manganese	257.61	-.3086080	0.0000000			
Mercury						
Nickel	231.60	-4.4617100	0.0000000			
Potassium	766.49	0.0000000	0.0000000			
Selenium						
Silver	328.06	-1.8535700	0.0000000			
Sodium	589.59	-1.2720500	0.0000000			
Thallium						
Vanadium	292.40	-.1061740	0.0000000			
Zinc	213.85	0.0000000	0.0000000			

Comments:

U.S. EPA - CLP

11B
ICP Interelement correction Factors (Annually)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A1926

ICP ID Number: JA61 Date: 06/05/00

Analyte	Wave-length (nm)	Interelement Correction Factors for : Zn	Zr			
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Cadmium						
Calcium						
Chromium	267.70	0.0000000	-.0096980			
Cobalt						
Copper						
Iron						
Lead	220.35	0.0000000	0.0000000			
Magnesium						
Manganese						
Mercury						
Nickel						
Potassium						
Selenium						
Silver						
Sodium						
Thallium						
Vanadium						
Zinc						

Comments:

U.S. EPA - CLP

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12
ICP Linear Ranges (Quarterly)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A1926

ICP ID Number: JA61 Date: 10/01/00

Analyte	Integ. Time (sec.)	Concentration (ug/L)	M
Aluminum	6.00	500000.0	P
Antimony	6.00	10000.0	P
Arsenic	6.00	10000.0	P
Barium	6.00	10000.0	P
Beryllium	6.00	10000.0	P
Cadmium	6.00	10000.0	P
Calcium	6.00	200000.0	P
Chromium	6.00	200000.0	P
Cobalt	6.00	10000.0	P
Copper	6.00	100000.0	P
Iron	6.00	500000.0	P
Lead	6.00	500000.0	P
Magnesium	6.00	500000.0	P
Manganese	6.00	10000.0	P
Mercury			NR
Nickel	6.00	10000.0	P
Potassium	6.00	100000.0	P
Selenium	6.00	10000.0	P
Silver	6.00	10000.0	P
Sodium	6.00	500000.0	P
Thallium	6.00	100000.0	P
Vanadium	6.00	10000.0	P
Zinc	6.00	10000.0	P

Comments:

U.S. EPA - CLP

13
PREPARATION LOG

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 1926A SAS No.: _____ SDG No.: A1926

Method: P

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
F001926A-01	09/13/00	100.00	100
F001926A-02	09/13/00	100.00	100
F001926A-03	09/13/00	100.00	100
F001926A-04	09/13/00	100.00	100
F001926A-05	09/13/00	100.00	100
F001926A-06	09/13/00	100.00	100
F001926A-07	09/13/00	100.00	100
F001926A-08	09/13/00	100.00	100
F001926A-09	09/13/00	100.00	100
F001926A-09D	09/13/00	100.00	100
F001926A-09S	09/13/00	100.00	100
F001926A-10	09/13/00	100.00	100
LCSW1	09/13/00		100
PBW1	09/13/00		100
T001926A-01	09/13/00	100.00	100
T001926A-02	09/13/00	100.00	100
T001926A-03	09/13/00	100.00	100
T001926A-04	09/13/00	100.00	100
T001926A-05	09/13/00	100.00	100
T001926A-06	09/13/00	100.00	100
T001926A-07	09/13/00	100.00	100
T001926A-08	09/13/00	100.00	100
T001926A-09	09/13/00	100.00	100
T001926A-09D	09/13/00	100.00	100
T001926A-09S	09/13/00	100.00	100
T001926A-10	09/13/00	100.00	100

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13
PREPARATION LOG

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 1926A SAS No.: _____ SDG No.: A1926

Method: CV

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
001926A-01	09/20/00	100.00	100
001926A-02	09/20/00	100.00	100
001926A-03	09/20/00	100.00	100
001926A-04	09/20/00	100.00	100
001926A-05	09/20/00	100.00	100
001926A-06	09/20/00	100.00	100
001926A-07	09/20/00	100.00	100
001926A-08	09/20/00	100.00	100
001926A-09	09/20/00	100.00	100
001926A-09D	09/20/00	100.00	100
001926A-09S	09/20/00	100.00	100
001926A-09SD	09/20/00	100.00	100
001926A-10	09/20/00	100.00	100
LCSW1	09/20/00		100
LCSW2	09/20/00		100
LCSW3	09/20/00		100
LCSW4	09/20/00		100
PBW1	09/20/00		100
PBW2	09/20/00		100
PBW3	09/20/00		100
PBW4	09/20/00		100

U.S. EPA - CLP

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14

ANALYSIS RUN LOG

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A1926

Instrument ID Number: JA61 Method: P

Start Date: 09/14/00 End Date: 09/14/00

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S1	1.00	1029		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
S7	1.00	1033			X	X	X	X	X		X	X	X		X		X		X	X	X	X	X	X	X	X	
S8	1.00	1038			X	X	X	X	X		X	X	X		X		X		X	X	X	X	X	X	X	X	
S4	1.00	1043		X		X	X	X	X		X	X	X		X		X		X	X	X	X	X	X	X	X	
S9	1.00	1046		X						X				X		X											
S6	1.00	1049		X						X				X		X											
S5	1.00	1053			X																						
S3	1.00	1056								X				X		X											
ICV1	1.00	1056		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CB1	1.00	1101		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZ	1.00	1105																									
CRI1	1.00	1110			X	X		X	X		X	X	X		X		X		X		X	X		X	X	X	
ICSAI	1.00	1115		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICSABI	1.00	1120		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV1	1.00	1125		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB1	1.00	1129		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
PBW1	1.00	1135		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
LCSW1	1.00	1139		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
T001926A-01	1.00	1144				X					X				X												
F001926A-01	1.00	1149				X																					
T001926A-02	1.00	1154				X					X				X												
F001926A-02	1.00	1158				X																					
T001926A-03	1.00	1203				X					X				X												
F001926A-03	1.00	1208				X																					
T001926A-04	1.00	1213				X					X				X												
F001926A-04	1.00	1218				X																					
CCV2	1.00	1222		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB2	1.00	1227		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
T001926A-05	1.00	1232				X					X				X												
F001926A-05	1.00	1237				X																					
T001926A-06	1.00	1242				X					X				X												
F001926A-06	1.00	1246				X																					
T001926A-07	1.00	1251				X					X				X												

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14

ANALYSIS RUN LOG

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A1926

Instrument ID Number: JA61 Method: P

Start Date: 09/14/00 End Date: 09/14/00

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
F001926A-07	1.00	1256				X																					
T001926A-08	1.00	1301				X					X				X												
F001926A-08	1.00	1306				X																					
T001926A-09	1.00	1310		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
T001926A-09L	5.00	1315		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV3	1.00	1320		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB3	1.00	1325		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
F001926A-09	1.00	1330				X																					
F001926A-09L	5.00	1335				X																					
001926A-10	1.00	1339		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
001926A-10	1.00	1344				X																					
T001926A-09D	1.00	1349		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
F001926A-09D	1.00	1354				X																					
T001926A-09S	1.00	1359		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
F001926A-09S	1.00	1403				X																					
T001926A-09A	1.00	1408																									
F001926A-09A	1.00	1413																									
CCV4	1.00	1418		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB4	1.00	1423		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	1.00	1427																									
CRI2	1.00	1432			X	X		X	X		X	X	X		X		X		X		X	X		X	X	X	
ICSAF	1.00	1437		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICSABF	1.00	1442		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV5	1.00	1447		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB5	1.00	1452		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	

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ANALYSIS RUN LOG

124 REV

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A1926

Instrument ID Number: HG4 Method: CV

Start Date: 09/21/00 End Date: 09/21/00

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1105																X									
S0	1.00	1107																X									
S1	1.00	1109																X									
S2	1.00	1111																X									
S5	1.00	1113																X									
S1	1.00	1115																X									
ICV1	1.00	1140																X									
ICV1	1.00	1140																X									
ICV1	1.00	1140																X									
CV1	1.00	1140																X									
CB1	1.00	1142																X									
ICB1	1.00	1142																X									
ICB3	1.00	1142																X									
ICB4	1.00	1142																X									
CCV1	1.00	1144																X									
CCV1	1.00	1144																X									
CCV7	1.00	1144																X									
CCV9	1.00	1144																X									
CCB1	1.00	1146																X									
CCB1	1.00	1146																X									
CCB10	1.00	1146																X									
CCB7	1.00	1146																X									
PBW1	1.00	1147																X									
LCSW1	1.00	1149																X									
ZZZZZZ	1.00	1151																									
ZZZZZZ	1.00	1152																									
ZZZZZZ	1.00	1154																									
ZZZZZZ	1.00	1156																									
ZZZZZZ	1.00	1158																									
ZZZZZZ	1.00	1159																									
ZZZZZZ	1.00	1201																									
ZZZZZZ	1.00	1203																									
CCV10	1.00	1204																X									

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ANALYSIS RUN LOG

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A1926

Instrument ID Number: HG4 Method: CV

Start Date: 09/21/00 End Date: 09/21/00

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CCV2	1.00	1204																X									
CCV2	1.00	1204																X									
CCV8	1.00	1204																X									
CCB11	1.00	1206																X									
CCB2	1.00	1206																X									
CCB2	1.00	1206																X									
CCB8	1.00	1206																X									
ZZZZZZ	1.00	1208																									
ZZZZZZ	1.00	1209																									
ZZZZZ	1.00	1211																									
ZZZZZ	1.00	1213																									
ZZZZZZ	1.00	1214																									
ZZZZZZ	1.00	1216																									
ZZZZZZ	1.00	1217																									
ZZZZZZ	1.00	1219																									
ZZZZZZ	1.00	1221																									
ZZZZZZ	1.00	1223																									
CCV11	1.00	1224																X									
CCV3	1.00	1224																X									
CCV3	1.00	1224																X									
CCV9	1.00	1224																X									
CCB12	1.00	1226																X									
CCB3	1.00	1226																X									
CCB3	1.00	1226																X									
CCB9	1.00	1226																X									
ZZZZZZ	1.00	1228																									
ZZZZZZ	1.00	1230																									
ZZZZZZ	1.00	1231																									
T001926A-01	1.00	1233																X									
T001926A-02	1.00	1234																X									
ZZZZZZ	1.00	1236																									
ZZZZZZ	1.00	1238																									
T001926A-03	1.00	1240																X									

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126 RRV

14

ANALYSIS RUN LOG

Lab Name: STL

Contract: _____

Lab Code: STL Case No.: _____

SAS No.: _____ SDG No.: A1926

Instrument ID Number: HG4

Method: CV

Start Date: 09/21/00

End Date: 09/21/00

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
T001926A-04	1.00	1241																X									
T001926A-05	1.00	1243																X									
CCV10	1.00	1244																X									
CCV12	1.00	1244																X									
CCV4	1.00	1244																X									
CCV4	1.00	1244																X									
CCB10	1.00	1247																X									
CCB13	1.00	1247																X									
CCB4	1.00	1247																X									
CB4	1.00	1247																X									

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ANALYSIS RUN LOG

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A1926

Instrument ID Number: HG4 Method: CV

Start Date: 09/22/00 End Date: 09/22/00

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1006																X									
S0	1.00	1007																X									
S1	1.00	1009																X									
S2	1.00	1011																X									
S5	1.00	1013																X									
S1	1.00	1015																X									
ICV1	1.00	1046																X									
ICV1	1.00	1046																X									
ICV1	1.00	1046																X									
CV1	1.00	1046																X									
ICB1	1.00	1048																X									
ICB3	1.00	1048																X									
ICB6	1.00	1048																X									
ICB7	1.00	1048																X									
CCV1	1.00	1050																X									
CCV15	1.00	1050																X									
CCV19	1.00	1050																X									
CCV4	1.00	1050																X									
CCV5	1.00	1050																X									
CCB1	1.00	1052																X									
CCB16	1.00	1052																X									
CCB19	1.00	1052																X									
CCB4	1.00	1052																X									
CCB7	1.00	1052																X									
T001926A-06	1.00	1054																X									
T001926A-07	1.00	1055																X									
T001926A-08	1.00	1057																X									
T001926A-09	1.00	1059																X									
001926A-09D	1.00	1100																X									
T001926A-09D	1.00	1100																X									
001926A-09S	1.00	1102																X									
T001926A-09S	1.00	1102																X									
001926A-09SD	1.00	1104																									

U.S. EPA - CLP

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14
ANALYSIS RUN LOG

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A1926

Instrument ID Number: HG4 Method: CV

Start Date: 09/22/00 End Date: 09/22/00

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
T001926A-10	1.00	1106																X									
ZZZZZZ	1.00	1107																									
ZZZZZZ	1.00	1109																									
CCV16	1.00	1110																X									
CCV2	1.00	1110																X									
CCV20	1.00	1110																X									
CCV5	1.00	1110																X									
CCV6	1.00	1110																X									
CCB17	1.00	1113																X									
CB2	1.00	1113																X									
CCB20	1.00	1113																X									
CCB5	1.00	1113																X									
CCB8	1.00	1113																X									

COVER PAGE - WET CHEM ANALYSES DATA PACKAGE

Lab Name: STL Contract:

Lab Code: STL Case No.: 1926A SAS No.: SDG No.: A1926

SOW No.:

Sample No.	Lab Sample ID
SW-01	001926A-01
SW-02	001926A-02
SW-03	001926A-03
SW-70	001926A-04
SW-05	001926A-05
SW-06	001926A-06
SW-07	001926A-07
SW-08	001926A-08
SW-09	001926A-09

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Name: Daniel W. Hulfield

Date: 9/14/00 Title: Chemist

WET CHEM ANALYSIS

3
BLANKS

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 1926A SAS No.: _____ SDG No.: A1926

Analyte	Initial Calib. Blank	C	Continuing Calibration Blank 1	C	2	C	3	C	Prepa-ration Blank	C	units	M
TSS									5.0	U	mg/L	G
TSS									5.0	U	mg/L	G

5
DUPLICATES

SAMPLE NO.

SW-09

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 1926A SAS No.: _____ SDG No.: A1926

% Solids for Sample: 0 % Solids for Duplicate: 0

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Units	M
TSS	20	8.5		7.5		12.5		mg/L	G

FORM V - WC

LABORATORY CONTROL SAMPLE

Lab Name: STL Contract:

Lab Code: STL Case No.: 1926A SAS No.: SDG No.: A1926

Analyte	True	LCS Found	%R	units	LCS Source
TSS	250.3	203	81.1	mg/L	
TSS	250.3	227	90.7	mg/L	

HOLD TIME REPORT

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 1926A SAS No.: _____ SDG No.: A1926

Analyte : TSS

Client Sample ID	Date Received	Date Prepped	Date Analyzed
SW-01	09/06/00	09/06/00	09/06/00 00:00
SW-02	09/06/00	09/06/00	09/06/00 00:00
SW-03	09/06/00	09/06/00	09/06/00 00:00
SW-70	09/06/00	09/06/00	09/06/00 00:00
SW-05	09/06/00	09/06/00	09/06/00 00:00
SW-06	09/06/00	09/06/00	09/06/00 00:00
SW-07	09/06/00	09/06/00	09/06/00 00:00
SW-08	09/06/00	09/06/00	09/06/00 00:00
SW-09	09/06/00	09/08/00	09/08/00 00:00
SW-09	09/06/00	09/08/00	09/08/00 00:00

Summer Storm 2

SEVERN TRENT SERVICES

STL Connecticut
128 Long Hill Cross Road
Shelton, CT 06484

Tel: 203 929 8140
Fax: 203 929 8142
www.stl-inc.com

October 09, 2000

Mr. Larry Mctiernan
ROUX ASSOCIATES-MA
25 Corporate Drive
Suite 230
Burlington, MA 01803

Dear Mr. Mctiernan :

Please find enclosed the analytical results of 10 sample(s) received at our laboratory on September 20, 2000. This report contains sections addressing the following information at a minimum:

- sample summary
- analytical methodology
- state certifications
- definition of data qualifiers and terminology
- analytical results
- chain-of-custody

STL Report #7000-2098A	Purchase Order #06626M32
Project ID: INDUSTRIALPLEX	

Copies of this analytical report and supporting data are maintained in our files for a minimum of five years unless special arrangements have been made. Unless specifically indicated, all analytical testing was performed at this laboratory location and no portion of the testing was subcontracted.

We appreciate your selection of our services and welcome any questions or suggestions you may have relative to this report. Please contact your customer service representative at (203) 929-8140 for any additional information. Thank you for utilizing our services; we hope you will consider us for your future analytical needs.

I have reviewed and approved the enclosed data for final release.

Very truly yours,

Jeffrey C. Curran
Laboratory Manager

JCC

7000-2098A
ROUX ASSOCIATES

Case Narrative

Sample Receipt – All samples were received in good condition and at proper temperature.

Classical Chemistry - Listed below are the wet chemistry analyte methods and references for the samples analyzed in this SDG. No analytical problems were encountered.

Analyte	Method	Reference
TSS	160.2	1

References:

1. Methods of Chemical Analysis of Water and Wastes, EPA 600, 1983.

Semi-Volatile Organics - Semi-volatile organic samples were extracted and analyzed by capillary GC/MS using guidance provided in Methods 3510C/8270C. The instrumentation used was a Hewlett-Packard Gas Chromatograph interfaced with a Mass Selective Detector.

All samples were extracted, concentrated and analyzed without any apparent problems.

Metals – ICAP metals were determined using a JA61E trace ICAP; mercury was determined by cold vapor technique using a Leeman Labs mercury analyzer; following guidance provided in SW846 according to methods: ICAP – 3010A/6010B; mercury-7470A.

No problems occurred during analysis. All appropriate protocols were employed. All data appears to be consistent.

002 Rev

TABLE SV-1.0
7000-2098A
ROUX ASSOCIATES-MA
TCL SEMI-VOLATILE ORGANICS

Aqueous

All values are ug/L.

Client Sample I.D.	Method Blank	SW-04A	SW-04B	Quant. Limits with no Dilution
Lab Sample I.D.	SBLKGQ	002098A-07	002098A-08	
Method Blank I.D.	SBLKGQ	SBLKGQ	SBLKGQ	
Quant. Factor	1.00	1.00	1.06	
Cyclohexanone	U	29	24	10
Phenol	U	U	U	10
bis(2-Chloroethyl)ether	U	U	U	10
2-Chlorophenol	U	U	U	10
1,3-Dichlorobenzene	U	U	U	10
1,4-Dichlorobenzene	U	U	U	10
Benzyl alcohol	U	U	U	10
1,2-Dichlorobenzene	U	U	U	10
2-Methylphenol	U	U	U	10
bis(2-Chloroisopropyl)ether	U	U	U	10
4-Methylphenol	U	U	U	10
N-Nitroso-di-n-propylamine	U	U	U	10
Hexachloroethane	U	U	U	10
Nitrobenzene	U	U	U	10
Isophorone	U	U	U	10
2-Nitrophenol	U	U	U	10
2,4-Dimethylphenol	U	U	U	10
Benzoic acid	U	U	U	50
bis(2-Chloroethoxy)methane	U	U	U	10
2,4-Dichlorophenol	U	U	U	10
1,2,4-Trichlorobenzene	U	U	U	10
Naphthalene	U	U	U	10
4-Chloroaniline	U	U	U	10
Hexachlorobutadiene	U	U	U	10
4-Chloro-3-methylphenol	U	U	U	10
2-Methylnaphthalene	U	U	U	10
Hexachlorocyclopentadiene	U	U	U	10
2,4,6-Trichlorophenol	U	U	U	10
2,4,5-Trichlorophenol	U	U	U	50
2-Chloronaphthalene	U	U	U	10
2-Nitroaniline	U	U	U	50
Dimethylphthalate	U	U	U	10
Acenaphthylene	U	U	U	10
2,6-Dinitrotoluene	U	U	U	10
3-Nitroaniline	U	U	U	50
Date Received		09/20/00	09/20/00	
Date Extracted	09/22/00	09/22/00	09/22/00	
Date Analyzed	09/27/00	09/28/00	09/28/00	

See Appendix for qualifier definitions
Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE SV-1.0 003 Rev V Aqueous
7000-2098A
ROUX ASSOCIATES-MA
TCL SEMI-VOLATILE ORGANICS

All values are ug/L.

Client Sample I.D.	Method Blank	SW-04A	SW-04B	Quant. Limits with no Dilution
Lab Sample I.D.	SBLKGQ	002098A-07	002098A-08	
Method Blank I.D.	SBLKGQ	SBLKGQ	SBLKGQ	
Quant. Factor	1.00	1.00	1.06	
Acenaphthene	U	U	U	10
2,4-Dinitrophenol	U	U	U	50
4-Nitrophenol	U	U	U	50
Dibenzofuran	U	U	U	10
2,4-Dinitrotoluene	U	U	U	10
Diethylphthalate	U	.2J	U	10
4-Chlorophenyl-phenylether	U	U	U	10
Fluorene	U	U	U	10
4-Nitroaniline	U	U	U	50
4,6-Dinitro-2-methylphenol	U	U	U	50
N-Nitrosodiphenylamine (1)	U	U	U	10
4-Bromophenyl-phenylether	U	U	U	10
Hexachlorobenzene	U	U	U	10
Pentachlorophenol	U	U	U	50
Phenanthrene	U	U	U	10
Anthracene	U	U	U	10
Di-n-butylphthalate	U	U	U	10
Fluoranthene	U	U	U	10
Pyrene	U	U	U	10
Butylbenzylphthalate	.4J	U	U	10
3,3'-Dichlorobenzidine	U	U	U	20
Benzo(a)anthracene	U	U	U	10
Chrysene	U	U	U	10
bis(2-Ethylhexyl)phthalate	2J	2JB	2JB	10
Di-n-octylphthalate	U	U	U	10
Benzo(b)fluoranthene	U	U	U	10
Benzo(k)fluoranthene	U	U	U	10
Benzo(a)pyrene	U	U	U	10
Indeno(1,2,3-cd)pyrene	U	U	U	10
Dibenzo(a,h)anthracene	U	U	U	10
Benzo(g,h,i)perylene	U	U	U	10
Date Received		09/20/00	09/20/00	
Date Extracted	09/22/00	09/22/00	09/22/00	
Date Analyzed	09/27/00	09/28/00	09/28/00	

See Appendix for qualifier definitions
Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

004 Rev

Aqueous

TABLE SV-2.0
7000-2098A
ROUX ASSOCIATES-MA
MISCELLANEOUS SEMI-VOLATILE ORGANICS

All values are ug/L.

Client Sample I.D.	Method Blank	SW-07	SW-01	Quant. Limits with no Dilution
Lab Sample I.D.	SBLKGQ	002098A-01	002098A-02	
Method Blank I.D.	SBLKGQ	SBLKGQ	SBLKGQ	
Quant. Factor	1.00	1.06	1.14	
Cyclohexanone	U	U	U	10
4-Methylphenol	U	U	U	10
Naphthalene	U	U	U	10
2-Methylnaphthalene	U	U	U	10
Acenaphthylene	U	U	U	10
Acenaphthene	U	U	U	10
Fluorene	U	U	U	10
Diethylphthalate	U	U	U	10
Phenanthrene	U	2J	U	10
Anthracene	U	2J	U	10
Fluoranthene	U	4J	.3J	10
Pyrene	U	5J	.3J	10
Benzo(a)anthracene	U	.8J	U	10
Chrysene	U	3J	U	10
bis(2-Ethylhexyl)phthalate	2J	5JB	3JB	10
Benzo(b)fluoranthene	U	2J	U	10
Benzo(k)fluoranthene	U	2J	U	10
Benzo(a)pyrene	U	1J	U	10
Indeno(1,2,3-cd)pyrene	U	2J	U	10
Dibenzo(a,h)anthracene	U	U	U	10
Benzo(g,h,i)perylene	U	2J	U	10
Date Received		09/20/00	09/20/00	
Date Extracted	09/22/00	09/22/00	09/22/00	
Date Analyzed	09/27/00	09/27/00	09/27/00	

See Appendix for qualifier definitions
Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

005 Rev V

Aqueous

TABLE SV-2.1
7000-2098A
ROUX ASSOCIATES-MA
MISCELLANEOUS SEMI-VOLATILE ORGANICS

All values are ug/L.

Client Sample I.D.	SW-10	SW-02	SW-03	Quant. Limits with no Dilution
Lab Sample I.D.	002098A-03	002098A-04	002098A-05	
Method Blank I.D.	SBLKGQ	SBLKGQ	SBLKGQ	
Quant. Factor	1.16	1.00	1.00	
Cyclohexanone	U	U	U	10
4-Methylphenol	U	U	U	10
Naphthalene	U	U	U	10
2-Methylnaphthalene	U	U	U	10
Acenaphthylene	U	U	U	10
Acenaphthene	U	U	U	10
Fluorene	U	U	U	10
Diethylphthalate	U	U	U	10
Phenanthrene	U	U	U	10
Anthracene	U	U	U	10
Fluoranthene	U	U	U	10
Pyrene	U	U	U	10
Benzo(a)anthracene	U	U	U	10
Chrysene	U	U	U	10
bis(2-Ethylhexyl)phthalate	2JB	2JB	2JB	10
Benzo(b)fluoranthene	U	U	U	10
Benzo(k)fluoranthene	U	U	U	10
Benzo(a)pyrene	U	U	U	10
Indeno(1,2,3-cd)pyrene	U	U	U	10
Dibenzo(a,h)anthracene	U	U	U	10
Benzo(g,h,i)perylene	U	U	U	10
Date Received	09/20/00	09/20/00	09/20/00	
Date Extracted	09/22/00	09/22/00	09/22/00	
Date Analyzed	09/27/00	09/27/00	09/27/00	

See Appendix for qualifier definitions
Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

006 Rev

Aqueous

TABLE SV-2.2
7000-2098A
ROUX ASSOCIATES-MA
MISCELLANEOUS SEMI-VOLATILE ORGANICS

All values are ug/L.

Client Sample I.D.	SW-05	SW-06	SW-08	Quant. Limits with no Dilution
Lab Sample I.D.	002098A-06	002098A-09	002098A-10	
Method Blank I.D.	SBLKGQ	SBLKGQ	SBLKGQ	
Quant. Factor	1.00	1.10	1.04	
Cyclohexanone	U	U	U	10
4-Methylphenol	U	U	U	10
Naphthalene	U	U	U	10
2-Methylnaphthalene	U	U	U	10
Acenaphthylene	U	U	U	10
Acenaphthene	U	U	U	10
Fluorene	U	U	U	10
Diethylphthalate	U	U	U	10
Phenanthrene	U	1J	U	10
Anthracene	U	U	U	10
Fluoranthene	U	3J	.3J	10
Pyrene	U	3J	.4J	10
Benzo(a)anthracene	U	.7J	U	10
Chrysene	U	2J	U	10
bis(2-Ethylhexyl)phthalate	2JB	2JB	6JB	10
Benzo(b)fluoranthene	U	2J	U	10
Benzo(k)fluoranthene	U	2J	U	10
Benzo(a)pyrene	U	1J	U	10
Indeno(1,2,3-cd)pyrene	U	.9J	U	10
Dibenzo(a,h)anthracene	U	U	U	10
Benzo(g,h,i)perylene	U	.9J	U	10
Date Received	09/20/00	09/20/00	09/20/00	
Date Extracted	09/22/00	09/22/00	09/22/00	
Date Analyzed	09/27/00	09/28/00	09/28/00	

See Appendix for qualifier definitions
Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

Aqueous

TABLE AS-1.0
7000-2098A
ROUX ASSOCIATES-MA
MISCELLANEOUS ATOMIC SPECTROSCOPY (Dissolved)

All values are ug/L.

Client Sample I.D.	SW-07	SW-01	SW-10	SW-02
Lab Sample I.D.	002098A-01	002098A-02	002098A-03	002098A-04
Arsenic	2.5U	2.5U	2.5U	2.5U
Chromium	NR	NR	NR	NR
Lead	NR	NR	NR	NR
Mercury	NR	NR	NR	NR

See Appendix for qualifier definitions

Aqueous

TABLE AS-1.1
7000-2098A
ROUX ASSOCIATES-MA
MISCELLANEOUS ATOMIC SPECTROSCOPY (Dissolved)

All values are ug/L.

Client Sample I.D.	SW-03	SW-05	SW-04A	SW-04B
Lab Sample I.D.	002098A-05	002098A-06	002098A-07	002098A-08
Arsenic	3.7B	2.5U	3.4B	2.5U
Chromium	NR	NR	NR	NR
Lead	NR	NR	NR	NR
Mercury	NR	NR	NR	NR

See Appendix for qualifier definitions

Aqueous

TABLE AS-1.2
7000-2098A
ROUX ASSOCIATES-MA
MISCELLANEOUS ATOMIC SPECTROSCOPY (Dissolved)

All values are ug/L.

Client Sample I.D.	SW-06	SW-08		
Lab Sample I.D.	002098A-09	002098A-10		
Arsenic	2.5U	2.5U		
Chromium	NR	NR		
Lead	NR	NR		
Mercury	NR	NR		

See Appendix for qualifier definitions

Aqueous

TABLE AS-1.3
7000-2098A
ROUX ASSOCIATES-MA
MISCELLANEOUS ATOMIC SPECTROSCOPY (Total)

All values are ug/L.

Client Sample I.D.	SW-07	SW-01	SW-10	SW-02
Lab Sample I.D.	002098A-01	002098A-02	002098A-03	002098A-04
Arsenic	2.5U	4.4B	2.5U	2.5U
Chromium	4.0B	3.1B	3.0B	1.0U
Lead	12.1	2.0U	2.2B	2.0U
Mercury	0.10U	0.10U	0.10U	0.10U

See Appendix for qualifier definitions

TABLE AS-1.4
7000-2098A
ROUX ASSOCIATES-MA
TAL METALS (Total)

011 ReV Aqueous

All values are ug/L.

Client Sample I.D.	SW-03	SW-05	SW-04A	SW-04B
Lab Sample I.D.	002098A-05	002098A-06	002098A-07	002098A-08
Aluminum	NR	NR	112.B	120.B
Antimony	NR	NR	5.0U	5.0U
Arsenic	10.2	2.5U	55.0	45.2
Barium	NR	NR	29.2B	26.1B
Beryllium	NR	NR	0.50U	0.50U
Cadmium	NR	NR	1.2B	2.4B
Calcium	NR	NR	54600	42200
Chromium	1.2B	1.0U	3.8B	3.8B
Cobalt	NR	NR	2.3B	1.6B
Copper	NR	NR	8.5B	9.5B
Iron	NR	NR	5660	5010
Lead	2.0U	3.2	2.0U	2.7B
Magnesium	NR	NR	7710	6030
Manganese	NR	NR	570.	413.
Mercury	0.10U	0.10U	0.10U	0.10U
Nickel	NR	NR	2.9B	3.3B
Potassium	NR	NR	8750	7160
Selenium	NR	NR	5.0U	5.0U
Silver	NR	NR	1.0U	1.0U
Sodium	NR	NR	43700	36500
Thallium	NR	NR	6.0U	6.0U
Vanadium	NR	NR	1.2B	1.1B
Zinc	NR	NR	178.	136.

See Appendix for qualifier definitions

Aqueous

TABLE AS-1.5
7000-2098A
ROUX ASSOCIATES-MA
MISCELLANEOUS ATOMIC SPECTROSCOPY (Total)

All values are ug/L.

Client Sample I.D.	SW-06	SW-08		
Lab Sample I.D.	002098A-09	002098A-10		
Arsenic	2.5U	2.5U		
Chromium	1.0U	5.2B		
Lead	2.0U	5.8		
Mercury	0.10U	0.10U		

See Appendix for qualifier definitions

1

WET CHEM ANALYSIS DATA SHEET

SAMPLE NO.

SW-07

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2098A SAS No.: _____ SDG No.: A2098

Matrix (soil/water): WATER Lab Sample ID: 002098A-01

% Solids: 0 Date Received: 09/20/00

CAS No.	Analyte	Concentration	C	Units	Q	M
	TSS	30.0		mg/L		G

Comments:

FORM I - WC

1

WET CHEM ANALYSIS DATA SHEET

SAMPLE NO.

SW-01

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2098A SAS No.: _____ SDG No.: A2098

Matrix (soil/water): WATER Lab Sample ID: 002098A-02

% Solids: 0 Date Received: 09/20/00

CAS No.	Analyte	Concentration	C	Units	Q	M
	TSS	5.0	U	mg/L		G

Comments:

FORM I - WC

1

WET CHEM ANALYSIS DATA SHEET

SAMPLE NO.

SW-10

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2098A SAS No.: _____ SDG No.: A2098

Matrix (soil/water): WATER Lab Sample ID: 002098A-03

% Solids: 0 Date Received: 09/20/00

CAS No.	Analyte	Concentration	C	Units	Q	M
	TSS	5.0	U	mg/L		G

Comments:

FORM I - WC

1

WET CHEM ANALYSIS DATA SHEET

SAMPLE NO.

SW-02

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2098A SAS No.: _____ SDG No.: A2098

Matrix (soil/water): WATER Lab Sample ID: 002098A-04

% Solids: 0 Date Received: 09/20/00

CAS No.	Analyte	Concentration	C	Units	Q	M
	TSS	5.0	U	mg/L		G

Comments:

FORM I - WC

WET CHEM ANALYSIS DATA SHEET

SAMPLE NO.

SW-03

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2098A SAS No.: _____ SDG No.: A2098

Matrix (soil/water): WATER Lab Sample ID: 002098A-05

% Solids: 0 Date Received: 09/20/00

CAS No.	Analyte	Concentration	C	Units	Q	M
	TSS	5.0	U	mg/L		G

Comments:

1

WET CHEM ANALYSIS DATA SHEET

SAMPLE NO.

SW-05

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2098A SAS No.: _____ SDG No.: A2098

Matrix (soil/water): WATER Lab Sample ID: 002098A-06

% Solids: 0 Date Received: 09/20/00

CAS No.	Analyte	Concentration	C	Units	Q	M
	TSS	5.0	U	mg/L		G

Comments:

FORM I - WC

1

WET CHEM ANALYSIS DATA SHEET

SAMPLE NO.

SW-04A

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2098A SAS No.: _____ SDG No.: A2098

Matrix (soil/water): WATER Lab Sample ID: 002098A-07

% Solids: 0 Date Received: 09/20/00

CAS No.	Analyte	Concentration	C	Units	Q	M
	TSS	20.0		mg/L		G

Comments:

FORM I - WC

1

WET CHEM ANALYSIS DATA SHEET

SAMPLE NO.

SW-04B

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2098A SAS No.: _____ SDG No.: A2098

Matrix (soil/water): WATER Lab Sample ID: 002098A-08

% Solids: 0 Date Received: 09/20/00

CAS No.	Analyte	Concentration	C	Units	Q	M
	TSS	18.5		mg/L		G

Comments:

FORM I - WC

1

WET CHEM ANALYSIS DATA SHEET

SAMPLE NO.

SW-06

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2098A SAS No.: _____ SDG No.: A2098

Matrix (soil/water): WATER Lab Sample ID: 002098A-09

% Solids: 0 Date Received: 09/20/00

CAS No.	Analyte	Concentration	C	Units	Q	M
	TSS	8.0		mg/L		G

Comments:

FORM I - WC

1

WET CHEM ANALYSIS DATA SHEET

SAMPLE NO.

SW-08

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2098A SAS No.: _____ SDG No.: A2098

Matrix (soil/water): WATER Lab Sample ID: 002098A-10

% Solids: 0 Date Received: 09/20/00

CAS No.	Analyte	Concentration	C	Units	Q	M
	TSS	16.0		mg/L		G

Comments:

FORM I - WC

STL
Committed To Your Success

ORGANICS APPENDIX

U - Indicates that the compound was analyzed for but not detected.

J - Indicates that the compound was analyzed for and determined to be present in the sample. The mass spectrum of the compound meets the identification criteria of the method. The concentration listed is an estimated value, which is less than the specified minimum detection limit but is greater than zero.

B - This flag is used when the analyte is found in the blanks as well as the sample. It indicates possible sample contamination and warns the data user to use caution when applying the results of this analyte.

N - Indicates that the compound was analyzed for but not requested as an analyte. Value will not be listed on tabular result sheet.

S - Estimated due to surrogate outliers.

X - Matrix spike compound.

(1) - Cannot be separated.

(2) - Decomposes to azobenzene. Measured and calibrated as azobenzene.

A - This flag indicates that a TIC is a suspected aldol condensation product.

E - Indicates that it exceeds calibration curve range.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor.

C - Confirmed by GC/MS.

T - Compound present in TCLP blank.

P - This flag is used for a pesticide/aroclor target analyte when there is a greater than 25 percent difference for detected concentrations between the two GC columns (see Form X).

STL
Committed To Your Success

INORGANICS APPENDIX

C - Concentration qualifiers

U - Indicates analyte was not detected at method reporting limit.

B - Indicates analyte result between IDL and contract required detection limit (CRDL)

Q - QC qualifiers

E - Reported value is estimated because of the presence of interference

M - Duplicate injection precision not met

N - Spiked sample recovery not within control limits

S - The reported value was determined by the method of standard additions (MSA)

W - Post-digest spike recovery furnace analysis was out of 85-115 percent control limit, while sample absorbance was less than 50 percent of spike absorbance

* - Duplicate analysis not within control limit

+ - Correlation coefficient for MSA is less than 0.995

M - Method codes

P - ICP

A - Flame AA

F - Furnace AA

CV - Cold vapor AA (manual)

C - Cyanide

NR - Not Required

NC - Not Calculated as per protocols

STATE CERTIFICATIONS

In some instances it may be necessary for environmental data to be reported to a regulatory authority with reference to a certified laboratory. For your convenience, the laboratory identification numbers for the STL-Connecticut laboratory are provided in the following table. Many states certify laboratories for specific parameters or tests within a category (i.e. method 325.2 for wastewater). The information in the following table indicates the lab is certified in a general category of testing such as drinking water or wastewater analysis. The laboratory should be contacted directly if parameter-specific certification information is required.

STL-Connecticut
Certification Summary (as of April 2000)

State	Regulatory Agency	Certification	Lab Number
Connecticut	Department of Health Services	Drinking Water, Wastewater	PH-0497
Maine	Department of Health and Environmental Services	Drinking Water, Wastewater/Solid, Hazardous Waste	CT023
Massachusetts	Department of Environmental Protection	Potable/Non-Potable Water	CT023
New Hampshire	Department of Environmental Services	Drinking Water, Wastewater	2528
New Jersey	Department of Environmental Protection	Drinking Water, Wastewater	46410
New York	Department of Health	CLP, Drinking Water, Wastewater, Solid/ Hazardous Waste	10602
North Carolina	Division of Environmental Management	Wastewater	388
Rhode Island	Department of Health	Chemistry...Non-Potable Water and Wastewater	A43
Washington	Department of Ecology	Wastewater/Hazardous Waste	C231
Wisconsin	Department of Natural Resources	Wastewater	998355710

7000-2098A
ROUX ASSOCIATES-MA
SAMPLE SUMMARY

CLIENT ID	LAB ID	MATRIX	DATE COLLECTED	DATE RECEIVED
SW-07	002098A-01	WATER	09/15/00	09/20/00
SW-01	002098A-02	WATER	09/18/00	09/20/00
SW-10	002098A-03	WATER	09/18/00	09/20/00
SW-02	002098A-04	WATER	09/18/00	09/20/00
SW-03	002098A-05	WATER	09/18/00	09/20/00
SW-05	002098A-06	WATER	09/18/00	09/20/00
SW-04A	002098A-07	WATER	09/18/00	09/20/00
SW-04B	002098A-08	WATER	09/18/00	09/20/00
SW-06	002098A-09	WATER	09/18/00	09/20/00
SW-08	002098A-10	WATER	09/18/00	09/20/00

STL CT ANALYTICAL SUMMARY

Client ID: SW-01, SW-02, SW-03, SW-04A, SW-04B, SW-05, SW-06, SW-07, SW-08, SW-10
Job Number: 7000-2098A

Date: 10/10/100

Qty	Matrix	Analysis	Description
1	None	DISK	Diskette Prep.
8	WATER	AS-SW846	Arsenic
10	WATER	AS-SW846-D	Arsenic (Dissolved)
8	WATER	BNA-8270C-MISC	Miscellaneous Semi-V
2	WATER	BNA-8270C-TCL	TCL Semi-Volatile Or
8	WATER	CR-SW846	Chromium
8	WATER	HG-SW846	Mercury
8	WATER	MET-PREP-ICAP	Metals ICAP Prep
10	WATER	MET-PREP-ICAP-D	Metals ICAP Prep (Di
2	WATER	MET-SW846-TAL	TAL Metals
8	WATER	PB-SW846	Lead
10	WATER	TSS-160.2	Total Suspended Soli

ROUX CHAIN OF CUSTODY

№ 04807 Y

ROUX ASSOCIATES, INC.
Environmental Consulting & Management
1377 MOTOR PARKWAY
ISLANDIA, NEW YORK 11788
(516) 232-2600 FAX (516) 232-9898

ANALYSES

PROJECT NAME: ISRT

PROJECT NUMBER: 060026M

PROJECT LOCATION: Woburn, MA 7000-2098A

PROJECT MANAGER: Larry McTiernan

SAMPLER(S): Chris Hilore

SAMPLE DESIGNATION / LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	TSS	Dissolved ~~Arsenic~~ Arsenic	Total - Arsenic Chromium Lead, Mercury	TAL METALS	PAH, Dicyclopentadiene, 4-methylphenol, Bis-2-ethylhexylphthalate, cyclohexanone	TCL SVOCS + cyclohexanone	TOTAL BOTTLES	NOTES
SW-07	9-15-00	1600	01	1	1	1		2		5	
SW-01	9-18-00	1100	02	1	1	1		2		5	
SW-10	9-18-00	1105	03	1	1	1		2		5	
SW-02	9-18-00	1130	04	1	1	1		2		5	
SW-03	9-18-00	1155	05	1	1	1		2		5	
SW-05	9-18-00	1310	06	1	1	1		2		5	
SW-04A	9-18-00	1540	07	1	1	~~X~~ CM	1	~~2~~ CM	2	5	
SW-04B	9-18-00	1545	08	1	1	~~X~~ CM	1	~~2~~ CM	2	5	
SW-06	9-18-00	1615	09	1	1	1		2		5	
SW-08	9-18-00	1640	10	1	1	1		2		5	

"PASSED RAD SCREEN"

6°

RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N	RECEIVED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N
[signature]	ROUX	9/18/00	1810		[signature]	STL	9/18/00	1810	
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N	RECEIVED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N
					[signature]	STL-CT	9/21/00	9:30	
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N	RECEIVED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N

DELIVERY METHOD

ANALYTICAL LABORATORY

COMMENTS: Level _ Deliverables for Tier II Data Validation.

CHAINOF CDR 12AUG98

ROUX CHAIN OF CUSTODY

№ 04798 Y

ROUX ASSOCIATES, INC.
Environmental Consulting & Management
1377 MOTOR PARKWAY
ISLANDIA, NEW YORK 11788
(516) 232-2600 FAX (516) 232-9898

PROJECT NAME: ISRT
PROJECT NUMBER: 06626M
PROJECT LOCATION: Woburn, MA 7000-2098A
PROJECT MANAGER: Larry McTiernan
SAMPLER(S): Chris Milone

ANALYSES

SAMPLE DESIGNATION / LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	TSS	Dissolved Arsenic ~~Metals~~	Total-Arsenic Chromium, Lead, Mercury	TAL Metals	PAH, Diethylphtalate, 4-Methylphenol, Bis-2-Ethylhexylpthlate, cyclohexanone	TCL SVOCS + cyclohexanone	TOTAL BOTTLES	NOTES
SW-09	9-18-00	1655	11	3	3		3		6	15	
Field Blank	9-18-00	1715	12		1		1		2	4	

"PASSED RAD SCREEN"

6

RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N	RECEIVED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N
[signature]	ROUX	9/18/00	1810		[signature]	STL	9/18/00	1810	
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N	RECEIVED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N
					[signature] 9/20/00	9.30	STL-CT		
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N	RECEIVED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N

DELIVERY METHOD

ANALYTICAL LABORATORY

COMMENTS
Level — Deliverables for Tier II Data Validation

CHAINOF CDR 12AUG98

FedEx

FedEx Tracking Number 818837632174

Form ID No 0200

1 From

Date 9/19/00 [redacted]

Sender's Name Sample Receiving Phone 173 667-1400

Company JTC Billerica

Address 149 Kangaway Road

City N. Billerica State MA ZIP 01862

Dept. Floor Suite Room

2 Your Internal Billing Reference

3 To

Recipient's Name Sample Receiving Phone [illegible]

Company JTC Connecticut

Address [illegible]

We cannot deliver to PO boxes or PO ZIP codes

Dept. Floor Suite Room

To HOLD at FedEx location print FedEx address here

City [illegible] State CT ZIP [illegible]

8188 3763 2174

4a Express Package Service

Packages up to 150 lbs. Delivery commitment may be later in some areas

- X FedEx Priority Overnight — Next business morning
- FedEx Standard Overnight — Next business afternoon
- FedEx First Overnight — Earliest next business morning delivery to select locations
- FedEx 2Day* — Second business day
- FedEx Express Saver* — Third business day

* FedEx Letter Rate not available. Minimum charge. One-pound rate.

4b Express Freight Service

Packages over 150 lbs. Delivery commitment may be later in some areas

- FedEx 1Day Freight* — Next business day
- FedEx 2Day Freight — Second business day
- FedEx 3Day Freight — Third business day

* Call for Confirmation

5 Packaging

* Declared value limit $500

- FedEx Letter*
- FedEx Pak*
- X Other Pkg — Includes FedEx Box, FedEx Tube and customer pkg

6 Special Handling

- Saturday Delivery — Available for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- Sunday Delivery — Available for FedEx Priority Overnight to select ZIP codes
- HOLD Weekday at FedEx Location — Not available with FedEx First Overnight
- HOLD Saturday at FedEx Location — Available for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods? One box must be checked

- X No
- Yes — As per attached Shipper's Declaration
- Yes — Shipper's Declaration not required
- Dry Ice — Dry Ice 9 UN 1845
- Cargo Aircraft Only

Dangerous goods cannot be shipped in FedEx packaging

7 Payment *Bill to:*

Enter FedEx Acct. No. or Credit Card No. below

Sender — Acct. No. in Section 1 will be billed

X Recipient

Third Party

Credit Card

Obtain Recip. Acct. No.

Cash/Check

[redacted]

Total Packages	Total Weight	Total Declared Value†	Total Charges
1	42 lbs	$ .00	

†Our liability is limited to $100 unless you declare a higher value. See back for details.

Credit Card Auth.

8 Release Signature Sign to authorize delivery without obtaining signature

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

Questions? Call 1·800·Go·FedEx (800 463 3339)

Visit our Web site at www.fedex.com

GBFE 11/99

360

FedEx

FedEx Tracking Number 818837632200

Form I.D. No 0200

1 From

Date 9/19/00 [redacted]

Sender's Name Sample Alaing Phone 972 667-1900

Company JTL Billerica

Address 149 Rangeway Road

Dept./Floor/Suite/Room

City N Billerica State MA ZIP 01862

2 Your Internal Billing Reference

3 To

Recipient's Name Sample Recipient Phone 203-181-3140

Company JTL Connecticut

Address 172 Long Hill Cross Road

Use Latest delivery to P.O. boxes or P.O. ZIP codes

Dept./Floor/Suite/Room

To HOLD at FedEx location print FedEx address here

City Shelton State CT ZIP 06484

818837632200

4a Express Package Service

Packages up to 150 lbs. Delivery commitment may be later in some areas

- [X] FedEx Priority Overnight — Next business morning
- [ ] FedEx Standard Overnight — Next business afternoon
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations
- [ ] FedEx 2Day* — Second business day
- [ ] FedEx Express Saver* — Third business day

*FedEx Letter Rate not available. Minimum charge: One pound rate

4b Express Freight Service

Packages over 150 lbs. Delivery commitment may be later in some areas

- [ ] FedEx 1Day Freight* — Next business day
- [ ] FedEx 2Day Freight — Second business day
- [ ] FedEx 3Day Freight — Third business day

*Call for Confirmation

5 Packaging

*Declared value limit $500

- [ ] FedEx Letter*
- [ ] FedEx Pak*
- [X] Other Pkg — Includes FedEx Box, FedEx Tube and customer pkg

6 Special Handling

- Saturday Delivery — Available for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- Sunday Delivery — Available for FedEx Priority Overnight to select ZIP codes
- HOLD Weekday at FedEx Location — Not available over FedEx First Overnight
- HOLD Saturday at FedEx Location — Available for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods? One box must be checked

- [X] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Yes — Shipper's Declaration not required
- [ ] Dry Ice — Dry Ice 9, UN 1845

Dangerous Goods cannot be shipped in FedEx packaging

- [ ] Cargo Aircraft Only

7 Payment *Bill to:*

Enter FedEx Acct. No. or Credit Card No. below

- [ ] Sender — Acct. No. in Section 1 will be billed
- [X] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

[redacted]

Total Packages	Total Weight	Total Declared Value†	Total Charges
1	15	$ .00	

†Our liability is limited to $100 unless you declare a higher value. See back for details

Credit Card Auth.

8 Release Signature Sign to authorize delivery without obtaining signature

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

Questions? Call 1·800·Go·FedEx (800 463 3339)

Visit our Web site at www.fedex.com

360

FedEx

FedEx Tracking Number 818837632185

Form I.D. No. 0200

1 From

Date 9/19/00

Sender's Name Sample Receiving Phone 170 067-1400

Company STC Billerica

Address 141 Kangeway Road Dept. Floor Suite Room

City N. Billerica State MA ZIP 01862

2 Your Internal Billing Reference

3 To

Recipient's Name Sample Receiving Phone 203 487 2140

Company STC Connecticut

Address 122 Long Hill Cross Road Dept. Floor Suite Room

We cannot deliver to P.O. boxes or P.O. ZIP codes.

To HOLD at FedEx location, print FedEx address here.

City Shelton State CT ZIP 02484

8188 3763 2185

4a Express Package Service — *Packages up to 150 lbs.* Delivery commitment may be later in some areas.

- X FedEx Priority Overnight — Next business morning
- FedEx Standard Overnight — Next business afternoon
- FedEx First Overnight — Earliest next business morning delivery to select locations
- FedEx 2Day* — Second business day
- FedEx Express Saver* — Third business day

* FedEx Letter Rate not available. Minimum charge: One pound rate.

4b Express Freight Service — *Packages over 150 lbs.* Delivery commitment may be later in some areas.

- FedEx 1Day Freight* — Next business day
- FedEx 2Day Freight — Second business day
- FedEx 3Day Freight* — Third business day

* Call for Confirmation

5 Packaging — * Declared value limit $500

- FedEx Letter*
- FedEx Pak*
- X Other Pkg — Includes FedEx Box, FedEx Tube and customer pkg.

6 Special Handling

- Saturday Delivery — Available for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- Sunday Delivery — Available for FedEx Priority Overnight to select ZIP codes
- HOLD Weekday at FedEx Location — Not available with FedEx First Overnight
- HOLD Saturday at FedEx Location — Available for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods? One box must be checked

- No
- Yes — As per attached Shipper's Declaration
- Yes — Shipper's Declaration not required
- Dry Ice — Dry Ice, 9, UN 1845

Cargo Aircraft Only

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below. Obtain Rev. Acct. No.

- Sender — Acct. No. in Section 1 will be billed
- X Recipient
- Third Party
- Credit Card
- Cash/Check

Total Packages	Total Weight	Total Declared Value†	Total Charges
1	59 lbs	$ 00	Credit Card Auth.

†Our liability is limited to $100 unless you declare a higher value. See back for details.

8 Release Signature Sign to authorize delivery without obtaining signature.

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

Questions? Call 1·800·Go·FedEx (800-463-3339)

Visit our Web site at www.fedex.com

360

FedEx

FedEx Tracking Number 818837632211

Form ID No. 0200

1 From

Date 9/11/00 [redacted]

Sender's Name Sample Receiving Phone 978 667-1400

Company STL Billerica

Address 149 Rangeway Road Dept. Floor Suite Room

City N. Billerica State MA ZIP 01862

2 Your Internal Billing Reference

3 To

Recipient's Name Sample Receiving Phone 203 739-8140

Company STL Connecticut

Address 128 Long Hill Cross Road Dept. Floor Suite Room

We cannot deliver to PO boxes or PO ZIP codes

To HOLD at FedEx location print FedEx address here

City Shelton State CT ZIP 06484

8188 3763 2211

4a Express Package Service — *Packages up to 150 lbs.* Delivery commitment may be later in some areas*

- [X] FedEx Priority Overnight — Next business morning
- [ ] FedEx Standard Overnight — Next business afternoon
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations
- [ ] FedEx 2Day* — Second business day
- [ ] FedEx Express Saver* — Third business day

* FedEx Letter Rate not available. Minimum charge. One pound rate

4b Express Freight Service — *Packages over 150 lbs.* Delivery commitment may be later in some areas

- [ ] FedEx 1Day Freight* — Next business day
- [ ] FedEx 2Day Freight — Second business day
- [ ] FedEx 3Day Freight — Third business day

* Call for Confirmation

5 Packaging — Declared value limit $500

- [ ] FedEx Letter*
- [ ] FedEx Pak*
- [X] Other Pkg — Includes FedEx Box, FedEx Tube and customer pkg

6 Special Handling

- [ ] Saturday Delivery — Available for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- [ ] Sunday Delivery — Available for FedEx Priority Overnight to select ZIP codes
- [ ] HOLD Weekday at FedEx Location — Not available with FedEx First Overnight
- [ ] HOLD Saturday at FedEx Location — Available for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods? One box must be checked

- [X] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Yes — Shipper's Declaration not required
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ___ kg

Dangerous Goods cannot be shipped in FedEx packaging

Cargo Aircraft Only

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below

- [ ] Sender — Acct. No. in Section 1 will be billed
- [X] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

Obtain Recip. Acct. No.

[redacted]

Total Packages	Total Weight	Total Declared Value†	Total Charges
1	60	$ .00	Credit Card Auth

†Our liability is limited to $100 unless you declare a higher value. See back for details

8 Release Signature Sign to authorize delivery without obtaining signature

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

Questions? Call 1-800-Go-FedEx (800 463 3339)

Visit our Web site at www.fedex.com

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360

Severn T (· Connecticut
Internal Chain-of-Custody

Client: ROUX

STL Job #: 7000-2098A

Custody Seal: present / absent
Tamper Evident / Non Tamper Evident
intact / not intact

Airbill# FE

Field C-O-C: present / absent

Date Received: 9-20-00

Sample #s: 01-12

Locations: 90

Laboratory Sample #	Relinquished by	Accepted by	Date	Time	Reason	Relinquished by	Accepted by	Date	Time
1-11	ML	SW	9/26	18-	TSS	SW	ML	9/26	2340
01-10(A	ML	SBW	09/27/00	10:10	BNA	used			
1-10	ML	GB	9/27	1710	HS	GB	ML	9/29	1630

STL Form# SMF00504.CT

STL

GC-GC/MS Extract Chain of Custody

Fraction: (BNA) Pesticide-PCB / Herbicide / O/P Pesticide / DRO / Other (Circle one)

CLIENT: ROUX

JOB NO: 2098A

SAMPLE IN (Extractions)					SAMPLE IN (Extractions)				
Sample(s)	Date	Time	Sign.	Location	Sample(s)	Date	Time	Sign.	Location
1-10	9/25/00	2300	[illegible]	29					

SAMPLE OUT					SAMPLE IN			
Sample(s)	Date	Time	Code	Sign.	Date	Time	Location	Sign.
1-10	09/27	1930	AN	EM	09/27/00	1920	09	EM
	—							

Codes: SC = Screening AN = Analysis

Verified By: [illegible] Date: 10-3-02

Lab Form: SMF01201.CT

Committed To *Your* Success

Severn Trent Laboratories
128 Longhill Cross
Shelton, CT 06484
Tel (203) 929-8140
Fax (203)

CHAIN OF CUSTODY
ATOMIC SPECTROSCOPY DEPARTMENT

Job Number 7000-2098A Sample Numbers 1-10 (T & F)

WATER - SOIL - SLUDGE - EPTOX/TCLP

I confirm that I have performed the preparation below following SOP guidelines and authorize the release of this preparation:

Sample Prep			
	Darlyn Colon	10-2-00	ICP/FLME
			FURN
			MERCURY
	Chemist	Date(s)	

I confirm that I have performed the analysis below following SOP guidelines and authorize the release of all associated data:

Analysis	[illegible]	10/11/00	ICP
			FLAME
			FURN
			MERCURY
	Chemist	Date(s)	

I have reviewed and authorize the release of this job:

Complete [illegible] Supervisor 10/11/00 Date

Batch Assignment

Committed To *Your* Success

Severn Trent Laboratories
128 Long Hill Cross
Shelton, CT 06484
Tel (203) 929-8140
Fax (203)

CHAIN OF CUSTODY
ATOMIC SPECTROSCOPY DEPARTMENT

Job Number 002098A Sample Numbers 01 — 10

(WATER) - SOIL - SLUDGE - EPTOX/TCLP

I confirm that I have performed the preparation below following SOP guidelines and authorize the release of this preparation:

Sample Prep			
			ICP/FLME
			FURN
	Gerald Bao (Chemist)	09-29-00 (Date(s))	MERCURY

I confirm that I have performed the analysis below following SOP guidelines and authorize the release of all associated data:

Analysis			ICP
			FLAME
			FURN
	Gerald Bao (Chemist)	09-29-00 (Date(s))	MERCURY

I have reviewed and authorize the release of this job:

Complete [signature] (Supervisor) 10/3/00 (Date)

Batch Assignment _____

IEA / CT
LABORATORY CHRONICLE

SAMPLE PREPARATION AND ANALYSIS SUMMARY
INORGANIC ANALYSIS

JOB #: 7000-2098A

SAMPLE ID	MATRIX	LIST REQUESTED	DATE RECEIVED	DATE DIGESTED	DATE ANALYZED
SW-07	WATER	AS-SW846	09/20/00	10/2/00	10/4/00
SW-07	WATER	AS-SW846-D	09/20/00		
SW-07	WATER	CR-SW846	09/20/00		
SW-07	WATER	HG-SW846	09/20/00	9/25/00	9/25/00
SW-07	WATER	PB-SW846	09/20/00	10/2/00	10/4/00
SW-01	WATER	AS-SW846	09/20/00		
SW-01	WATER	AS-SW846-D	09/20/00		
SW-01	WATER	CR-SW846	09/20/00		
SW-01	WATER	HG-SW846	09/20/00	9/25/00	9/25/00
SW-01	WATER	PB-SW846	09/20/00	10/2/00	10/4/00
SW-10	WATER	AS-SW846	09/20/00		
SW-10	WATER	AS-SW846-D	09/20/00		
SW-10	WATER	CR-SW846	09/20/00		
SW-10	WATER	HG-SW846	09/20/00	9/25/00	9/25/00
SW-10	WATER	PB-SW846	09/20/00	10/2/00	10/4/00
SW-02	WATER	AS-SW846	09/20/00		
SW-02	WATER	AS-SW846-D	09/20/00		
SW-02	WATER	CR-SW846	09/20/00		
SW-02	WATER	HG-SW846	09/20/00	9/25/00	9/25/00
SW-02	WATER	PB-SW846	09/20/00	10/2/00	10/4/00
SW-03	WATER	AS-SW846	09/20/00		
SW-03	WATER	AS-SW846-D	09/20/00		

Section Supervisor (signature) [signature]

Review & Approval (printed name) [illegible]

(Date) 10/5/00

QC Supervisor (signature) _____

Review & Approval (printed name) _____

(Date) __/__/__

IEA / CT
LABORATORY CHRONICLE

SAMPLE PREPARATION AND ANALYSIS SUMMARY
INORGANIC ANALYSIS

JOB #: 7000-2098A

SAMPLE ID	MATRIX	LIST REQUESTED	DATE RECEIVED	DATE DIGESTED	DATE ANALYZED
SW-03	WATER	CR-SW846	09/20/00	10/2/00	10/4/00
SW-03	WATER	HG-SW846	09/20/00	9/25/00	9/25/00
SW-03	WATER	PB-SW846	09/20/00	10/2/00	10/4/00
SW-05	WATER	AS-SW846	09/20/00		
SW-05	WATER	AS-SW846-D	09/20/00		
SW-05	WATER	CR-SW846	09/20/00		
SW-05	WATER	HG-SW846	09/20/00	9/21/00	9/25/00
SW-05	WATER	PB-SW846	09/20/00	10/2/00	10/4/00
SW-04A	WATER	AS-SW846-D	09/20/00		
SW-04A	WATER	MET-SW846-TAL	09/20/00		
SW-04B	WATER	AS-SW846-D	09/20/00		
SW-04B	WATER	MET-SW846-TAL	09/20/00		
SW-06	WATER	AS-SW846	09/20/00		
SW-06	WATER	AS-SW846-D	09/20/00		
SW-06	WATER	CR-SW846	09/20/00		
SW-06	WATER	HG-SW846	09/20/00	9/25/00	9/25/00
SW-06	WATER	PB-SW846	09/20/00	10/2/00	10/4/00
SW-08	WATER	AS-SW846	09/20/00		
SW-08	WATER	AS-SW846-D	09/20/00		
SW-08	WATER	CR-SW846	09/20/00		
SW-08	WATER	HG-SW846	09/20/00	9/29/00	9/26/00
SW-08	WATER	PB-SW846	09/20/00	10/2/00	10/4/00

Section Supervisor (signature) [signature]

Review & Approval (printed name) D. W. K.

(Date) 10/9/00

QC Supervisor (signature) _____

Review & Approval (printed name) _____

(Date) ___/___/___

2C
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2098A SAS No.: _____ SDG No.: A2098

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	S7 (2CP) #	S8 (DCB) #	TOT OUT
01	SBLKGQ	76	85	63	37	39	80			0
02	SBLKGQFMS	84	73	90	39	48	81			0
03	SW-07	68	81	96	31	32	80			0
04	SW-01	66	76	84	28	30	76			0
05	SW-10	65	74	72	27	28	74			0
06	SW-02	65	64	60	28	29	74			0
07	SW-03	70	80	68	35	36	82			0
08	SW-05	63	72	67	33	33	69			0
09	SW-04A	70	75	72	40	39	84			0
10	SW-04B	68	74	71	39	37	81			0
11	SW-06	65	73	66	31	30	68			0
12	SW-08	67	82	92	32	34	80			0
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QC LIMITS

S1 (NBZ) = Nitrobenzene-d5 (35-114)
S2 (FBP) = 2-Fluorobiphenyl (43-116)
S3 (TPH) = Terphenyl-d14 (33-141)
S4 (PHL) = Phenol-d5 (10-110)
S5 (2FP) = 2-Fluorophenol (21-110)
S6 (TBP) = 2,4,6-Tribromophenol (10-123)
S7 (2CP) = 2-Chlorophenol-d4 (-) (advisory)
S8 (DCB) = 1,2-Dichlorobenzene-d4 (-) (advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FORM II SV-1

3C
WATER SEMIVOLATILE SPIKE/SPIKE DUPLICATE RECOVERY SUMMARY

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2098A SAS No.: _____ SDG No.: A2098

Matrix Spike - EPA Sample No.: SBLKGQ

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	SPIKE CONCENTRATION (ug/L)	SPIKE % REC #	QC. LIMITS REC.
Phenol	40	0	17	42	24-57
bis(2-Chloroethyl)ether	40	0	37	92	49-133
2-Chlorophenol	40	0	39	98	60-112
1,3-Dichlorobenzene	40	0	33	82	18-143
1,4-Dichlorobenzene	40	0	34	85	21-138
Benzyl alcohol	40	0	33	82	39-117
1,2-Dichlorobenzene	40	0	39	98	21-143
2-Methylphenol	40	0	33	82	49-91
bis(2-Chloroisopropyl)ether	40	0	42	105	54-130
4-Methylphenol	40	0	33	82	48-95
N-Nitroso-di-n-propylamine	40	0	42	105	46-129
Hexachloroethane	40	0	32	80	8-144
Nitrobenzene	40	0	36	90	46-141
Isophorone	40	0	35	88	52-140
2-Nitrophenol	40	0	35	88	69-123
2,4-Dimethylphenol	40	0	30	75	62-121
Benzoic acid	120	0	0	0	0-25
bis(2-Chloroethoxy)methane	40	0	37	92	53-142
2,4-Dichlorophenol	40	0	38	95	66-122
1,2,4-Trichlorobenzene	40	0	32	80	30-142
Naphthalene	40	0	34	85	43-144
4-Chloroaniline	40	0	33	82	48-150
Hexachlorobutadiene	40	0	32	80	5-169
4-Chloro-3-methylphenol	40	0	38	95	63-119
2-Methylnaphthalene	40	0	34	85	37-137
Hexachlorocyclopentadiene	40	0	15	38	1-139
2,4,6-Trichlorophenol	40	0	31	78	70-121
2,4,5-Trichlorophenol	40	0	32	80	71-124
2-Chloronaphthalene	40	0	41	102	52-163
2-Nitroaniline	40	0	36	90	60-139

Column to be used to flag recovery with an asterisk

* Values outside of QC limits.

Spike Recovery: 0 out of 65 outside limits

COMMENTS: _____

3C

WATER SEMIVOLATILE SPIKE/SPIKE DUPLICATE RECOVERY SUMMARY

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2098A SAS No.: _____ SDG No.: A2098

Matrix Spike - EPA Sample No.: SBLKGQ

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	SPIKE CONCENTRATION (ug/L)	SPIKE % REC #	QC. LIMITS REC.
Dimethylphthalate	40	0	34	85	64-137
Acenaphthylene	40	0	29	72	52-132
2,6-Dinitrotoluene	40	0	37	92	60-142
3-Nitroaniline	40	0	34	85	65-162
Acenaphthene	40	0	31	78	56-144
2,4-Dinitrophenol	40	0	42	105	70-139
4-Nitrophenol	40	0	22	55	21-65
Dibenzofuran	40	0	33	82	57-136
2,4-Dinitrotoluene	40	0	35	88	57-131
Diethylphthalate	40	0	32	80	62-132
4-Chlorophenyl-phenylether	40	0	29	72	55-136
Fluorene	40	0	34	85	59-131
4-Nitroaniline	40	0	39	98	67-155
4,6-Dinitro-2-methylphenol	40	0	50	125	77-164
N-Nitrosodiphenylamine (1)	40	0	40	100	67-149
4-Bromophenyl-phenylether	40	0	40	100	57-150
Hexachlorobenzene	40	0	39	98	53-153
Pentachlorophenol	40	0	35	88	63-125
Phenanthrene	40	0	40	100	83-124
Anthracene	40	0	42	105	66-138
Di-n-butylphthalate	40	0	40	100	65-146
Fluoranthene	40	0	43	108	63-145
Pyrene	40	0	43	108	66-152
Butylbenzylphthalate	40	.4	45	112	64-158
3,3'-Dichlorobenzidine	40	0	34	85	69-159
Benzo(a)anthracene	40	0	39	98	62-151
Chrysene	40	0	42	105	72-141
bis(2-Ethylhexyl)phthalate	40	2	43	102	63-148
Di-n-octylphthalate	40	0	46	115	65-154
Benzo(b)fluoranthene	40	0	39	98	42-172

Column to be used to flag recovery with an asterisk

* Values outside of QC limits.

Spike Recovery: 0 out of 65 outside limits

COMMENTS: _____

FORM III SV-1

3C

WATER SEMIVOLATILE SPIKE/SPIKE DUPLICATE RECOVERY SUMMARY

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2098A SAS No.: _____ SDG No.: A2098

Matrix Spike - EPA Sample No.: SBLKGQ

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	SPIKE CONCENTRATION (ug/L)	SPIKE % REC #	QC. LIMITS REC.
Benzo(k)fluoranthene	40	0	45	112	55-150
Benzo(a)pyrene	40	0	38	95	68-147
Indeno(1,2,3-cd)pyrene	40	0	34	85	52-157
Dibenzo(a,h)anthracene	40	0	35	88	25-159
Benzo(g,h,i)perylene	40	0	33	82	56-166
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Column to be used to flag recovery with an asterisk

* Values outside of QC limits.

Spike Recovery: 0 out of 65 outside limits

COMMENTS: _____

FORM III SV-1

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLKGQ

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2098A SAS No.: _____ SDG No.: A2098

Lab File ID: >Q9499 Lab Sample ID: SBLKGQ

Instrument ID: HP5971Q Date Extracted:09/22/00

Matrix: (soil/water) WATER Date Analyzed: 09/27/00

Level:(low/med) LOW Time Analyzed:1850

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SBLKGQFMS	SBLKGQFMS	>Q9500	09/27/00
02	SW-07	002098A-01	>Q9501	09/27/00
03	SW-01	002098A-02	>Q9502	09/27/00
04	SW-10	002098A-03	>Q9503	09/27/00
05	SW-02	002098A-04	>Q9504	09/27/00
06	SW-03	002098A-05	>Q9505	09/27/00
07	SW-05	002098A-06	>Q9506	09/27/00
08	SW-04A	002098A-07	>Q9507	09/28/00
09	SW-04B	002098A-08	>Q9508	09/28/00
10	SW-06	002098A-09	>Q9509	09/28/00
11	SW-08	002098A-10	>Q9510	09/28/00
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COMMENTS: _____

FORM IV SV

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2098A SAS No.: _____ SDG No.: A2098

Lab File ID: Q9429 DFTPP Injection Date:09/22/00

Instrument ID: HP5971Q DFTPP Injection Time:1108

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	50.6
68	Less than 2.0% of mass 69	0.7 (1.1)1
69	Mass 69 relative abundance	63.5
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	52.9
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	6.9
275	10.0 - 30.0% of mass 198	18.7
365	Greater than 1.0% of mass 198	2.17
441	Present, but less than mass 443	9.4
442	40.0 - 100.0% of mass 198	61.2
443	17.0 - 23.0% of mass 442	12.1 (19.8)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	SSTD020L4	SSTD020L4	>Q9430	09/22/00	1148
02	SSTD050L5	SSTD050L5	>Q9431	09/22/00	1229
03	SSTD080L6	SSTD080L6	>Q9432	09/22/00	1310
04	SSTD120L7	SSTD120L7	>Q9433	09/22/00	1351
05	SSTD160L8	SSTD160L8	>Q9434	09/22/00	1431
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FORM V SV

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2098A SAS No.: _____ SDG No.: A2098

Lab File ID: Q9498 DFTPP Injection Date:09/27/00

Instrument ID: HP5971Q DFTPP Injection Time:1804

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	56.9
68	Less than 2.0% of mass 69	0.4 (0.6)1
69	Mass 69 relative abundance	73.7
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	57.0
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	6.7
275	10.0 - 30.0% of mass 198	18.0
365	Greater than 1.0% of mass 198	2.16
441	Present, but less than mass 443	8.0
442	40.0 - 100.0% of mass 198	53.2
443	17.0 - 23.0% of mass 442	10.0 (18.8)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	SSTD050M9	SSTD050M9	>Q9498	09/27/00	1804
02	SBLKGQ	SBLKGQ	>Q9499	09/27/00	1850
03	SBLKGQFMS	SBLKGQFMS	>Q9500	09/27/00	1931
04	SW-07	002098A-01	>Q9501	09/27/00	2012
05	SW-01	002098A-02	>Q9502	09/27/00	2053
06	SW-10	002098A-03	>Q9503	09/27/00	2135
07	SW-02	002098A-04	>Q9504	09/27/00	2216
08	SW-03	002098A-05	>Q9505	09/27/00	2256
09	SW-05	002098A-06	>Q9506	09/27/00	2337
10	SW-04A	002098A-07	>Q9507	09/28/00	0018
11	SW-04B	002098A-08	>Q9508	09/28/00	0059
12	SW-06	002098A-09	>Q9509	09/28/00	0140
13	SW-08	002098A-10	>Q9510	09/28/00	0221
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FORM V SV

6B
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

ab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2098A SAS No.: _____ SDG No.: A2098

Instrument ID: HP5971Q Calibration Date(s):09/22/00 _____

Calibration Times: 1148 1431

LAB FILE ID: RRF20 = >Q9430 RRF50 = >Q9431
RRF80 = >Q9432 RRF120= >Q9433 RRF160= >Q9434

COMPOUND		RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD	
Phenol	*	2.132	1.944	1.560	1.622	1.888	1.829	12.9	*
bis(2-Chloroethyl)ether	*	1.457	1.343	1.142	1.132	1.134	1.242	12.1	*
2-Chlorophenol	*	1.528	1.428	1.235	1.268	1.285	1.349	9.2	*
1,3-Dichlorobenzene	*	1.722	1.648	1.479	1.417	1.386	1.530	9.6	*
1,4-Dichlorobenzene	*	1.417	1.389	1.282	1.271	1.264	1.325	5.5	*
Benzyl alcohol	*	1.250	1.261	1.005	1.072	1.074	1.132	10.2	*
1,2-Dichlorobenzene	*	1.421	1.263	1.116	1.066	1.047	1.183	13.3	*
2-Methylphenol	*	1.634	1.529	1.215	1.282	1.326	1.397	12.6	*
2,2'-oxybis(1-Chloropropane)	*	2.987	2.770	2.297	2.273	2.229	2.511	13.7	*
4-Methylphenol	*	1.563	1.515	1.195	1.290	1.319	1.376	11.4	*
N-Nitroso-di-n-propylamine	*	1.302	1.197	0.914	0.962	0.971	1.069	15.9	*
Hexachloroethane	*	0.678	0.643	0.588	0.552	0.533	0.599	10.2	*
'itrobenzene	*	0.471	0.442	0.393	0.369	0.366	0.408	11.4	*
sophorone	*	1.048	0.993	0.840	0.841	0.839	0.912	11.0	*
2-Nitrophenol	*	0.270	0.265	0.243	0.234	0.234	0.249	6.9	*
2,4-Dimethylphenol	*	0.419	0.424	0.366	0.361	0.363	0.387	8.2	*
Benzoic acid	*	0.281	0.324	0.274	0.302	0.314	0.299	7.1	*
bis(2-Chloroethoxy)methane	*	0.602	0.560	0.500	0.482	0.478	0.524	10.4	*
2,4-Dichlorophenol	*	0.328	0.318	0.284	0.276	0.279	0.297	8.1	*
1,2,4-Trichlorobenzene	*	0.347	0.323	0.301	0.280	0.276	0.305	9.8	*
Naphthalene	*	1.015	0.984	0.891	0.846	0.830	0.913	9.0	*
4-Chloroaniline	*	0.538	0.539	0.453	0.458	0.454	0.488	9.4	*
Hexachlorobutadiene	*	0.182	0.181	0.173	0.156	0.156	0.170	7.6	*
4-Chloro-3-methylphenol	*	0.458	0.443	0.364	0.368	0.363	0.399	11.8	*
2-Methylnaphthalene	*	0.744	0.620	0.534	0.505	0.488	0.578	18.3	*
Hexachlorocyclopentadiene	*	0.132	0.217	0.256	0.247	0.252	0.221	23.5	*
2,4,6-Trichlorophenol	*	0.470	0.439	0.398	0.386	0.370	0.413	9.9	*
2,4,5-Trichlorophenol	*	0.482	0.435	0.386	0.382	0.366	0.410	11.6	*
2-Chloronaphthalene	*	1.119	0.999	0.910	0.860	0.808	0.939	13.1	*
2-Nitroaniline	*	0.568	0.537	0.464	0.483	0.459	0.502	9.6	*
Dimethylphthalate	*	1.686	1.546	1.337	1.336	1.261	1.433	12.3	*
Acenaphthylene	*	2.047	1.820	1.610	1.500	1.414	1.678	15.3	*
2,6-Dinitrotoluene	*	0.319	0.295	0.262	0.271	0.268	0.283	8.4	*
3-Nitroaniline	*	0.446	0.415	0.365	0.393	0.381	0.400	7.9	*
Acenaphthene	*	1.011	0.951	0.888	0.859	0.802	0.902	9.0	*
2,4-Dinitrophenol	*	0.172	0.226	0.197	0.237	0.242	0.215	13.8	*
4-Nitrophenol	*	0.218	0.195	0.161	0.186	0.186	0.189	10.8	*

* Compounds with required minimum RRF and maximum %RSD values.

6C
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

ab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2098A SAS No.: _____ SDG No.: A2098

Instrument ID: HP5971Q Calibration Date(s):09/22/00 _____

Calibration Times: 1148 1431

LAB FILE ID: RRF20 = >Q9430 RRF50 = >Q9431
RRF80 = >Q9432 RRF120= >Q9433 RRF160= >Q9434

COMPOUND		RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD	
Dibenzofuran	*	1.792	1.598	1.436	1.386	1.302	1.503	12.9	*
2,4-Dinitrotoluene	*	0.475	0.452	0.390	0.419	0.416	0.430	7.7	*
Diethylphthalate	*	1.699	1.556	1.356	1.343	1.256	1.442	12.5	*
4-Chlorophenyl-phenyl Ether	*	0.637	0.557	0.489	0.477	0.440	0.520	15.0	*
Fluorene	*	1.333	1.150	0.983	0.950	0.880	1.059	17.2	*
4-Nitroaniline	*	0.499	0.473	0.379	0.415	0.404	0.434	11.5	*
4,6-Dinitro-2-methylphenol	*	0.149	0.160	0.140	0.145	0.143	0.147	5.3	*
N-Nitrosodiphenylamine	*	0.532	0.491	0.444	0.398	0.382	0.449	14.0	*
4-Bromophenyl-phenylether	*	0.222	0.214	0.204	0.182	0.176	0.200	10.0	*
Hexachlorobenzene	*	0.255	0.246	0.224	0.211	0.205	0.228	9.5	*
Pentachlorophenol	*	0.119	0.134	0.126	0.131	0.133	0.129	4.8	*
Phenanthrene	*	0.916	0.881	0.813	0.785	0.758	0.831	8.0	*
nthracene	*	0.972	0.900	0.810	0.750	0.706	0.828	13.1	*
arbazole	*	1.134	1.014	0.858	0.839	0.786	0.926	15.5	*
Di-n-butylphthalate	*	1.682	1.428	1.282	1.173	1.080	1.329	17.8	*
Fluoranthene	*	1.322	1.135	1.012	0.985	0.919	1.075	14.8	*
Pyrene	*	1.682	1.700	1.600	1.398	1.458	1.568	8.6	*
Butylbenzylphthalate	*	0.944	0.908	0.886	0.795	0.804	0.867	7.5	*
3,3'-Dichlorobenzidine	*	0.578	0.521	0.507	0.489	0.459	0.511	8.6	*
Benzo(a)anthracene	*	1.359	1.273	1.222	1.164	1.156	1.235	6.8	*
Chrysene	*	0.908	0.877	0.850	0.769	0.779	0.837	7.3	*
bis(2-Ethylhexyl)phthalate	*	0.841	0.813	0.798	0.722	0.758	0.786	6.0	*
Di-n-octylphthalate	*	2.623	2.579	2.402	2.193	2.337	2.427	7.3	*
Benzo(b)fluoranthene	*	1.539	1.723	1.509	1.702	1.826	1.660	8.0	*
Benzo(k)fluoranthene	*	1.154	1.028	0.997	0.826	0.765	0.954	16.5	*
Benzo(a)pyrene	*	1.301	1.306	1.228	1.234	1.264	1.267	2.9	*
Indeno(1,2,3-cd)pyrene	*	1.286	1.197	1.386	1.231	1.318	1.284	5.8	*
Dibenz(a,h)anthracene	*	1.049	0.976	1.090	1.004	1.079	1.040	4.7	*
Benzo(g,h,i)perylene	*	1.146	1.078	1.284	1.079	1.204	1.158	7.6	*
Cyclohexanone		1.390	1.311	0.980	0.892	0.805	1.076	24.2	
Nitrobenzene-D5	*	0.506	0.494	0.450	0.431	0.434	0.463	7.5	*
2-Fluorobiphenyl	*	1.247	1.126	1.046	0.956	0.891	1.053	13.3	*
Terphenyl-D14	*	1.225	1.279	1.218	1.117	1.153	1.198	5.3	*
Phenol-D5	*	2.314	2.185	1.820	1.901	1.931	2.030	10.3	*
2-Fluorophenol	*	1.889	1.977	1.863	1.851	1.889	1.894	2.6	*
2,4,6-Tribromophenol	*	0.212	0.218	0.194	0.210	0.207	0.208	4.3	*

(1) Cannot be separated from Diphenylamine
* Compounds with required minimum RRF and maximum %RSD values.

7B
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2098A SAS No.: _____ SDG No.: A2098

Instrument ID: HP5971Q Calibration Date: 09/27/00 Time: 1804

Lab File ID: >Q9498 Init. Calib. Date(s): 09/22/00 _____

Init. Calib. Times: 1148 1431

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Phenol	1.829	1.942		6.2	20.0
bis(2-Chloroethyl)ether	1.242	1.311		5.6	
2-Chlorophenol	1.349	1.334		-1.1	
1,3-Dichlorobenzene	1.530	1.422		-7.1	
1,4-Dichlorobenzene	1.325	1.272		-4.0	20.0
Benzyl alcohol	1.132	1.140		0.7	
1,2-Dichlorobenzene	1.183	1.175		-0.7	
2-Methylphenol	1.397	1.438		2.9	
2,2'-oxybis(1-Chloropropane)	2.511	3.086		22.9	
4-Methylphenol	1.376	1.463		6.3	
N-Nitroso-di-n-propylamine	1.069	1.342	0.050	25.5	
Hexachloroethane	0.599	0.559		-6.7	
Nitrobenzene	0.408	0.431		5.6	
Isophorone	0.912	0.953		4.5	
2-Nitrophenol	0.249	0.232		-6.8	20.0
2,4-Dimethylphenol	0.387	0.401		3.6	
Benzoic acid	0.299	0.302		1.0	
bis(2-Chloroethoxy)methane	0.524	0.539		2.9	
2,4-Dichlorophenol	0.297	0.276		-7.1	20.0
1,2,4-Trichlorobenzene	0.305	0.273		-10.5	
Naphthalene	0.913	0.885		-3.1	
4-Chloroaniline	0.488	0.510		4.5	
Hexachlorobutadiene	0.170	0.152		-10.6	20.0
4-Chloro-3-methylphenol	0.399	0.420		5.3	20.0
2-Methylnaphthalene	0.578	0.580		0.3	
Hexachlorocyclopentadiene	0.221	0.158	0.050	-28.5	
2,4,6-Trichlorophenol	0.413	0.372		-9.9	20.0
2,4,5-Trichlorophenol	0.410	0.380		-7.3	
2-Chloronaphthalene	0.939	0.870		-7.4	
2-Nitroaniline	0.502	0.516		2.8	
Dimethylphthalate	1.433	1.328		-7.3	
Acenaphthylene	1.678	1.545		-7.9	
2,6-Dinitrotoluene	0.283	0.278		-1.8	
3-Nitroaniline	0.400	0.359		-10.2	
Acenaphthene	0.902	0.808		-10.4	20.0
2,4-Dinitrophenol	0.215	0.213	0.050	-0.9	
4-Nitrophenol	0.189	0.212	0.050	12.2	

7C
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2098A SAS No.: _____ SDG No.: A2098

Instrument ID: HP5971Q Calibration Date: 09/27/00 Time: 1804

Lab File ID: >Q9498 Init. Calib. Date(s): 09/22/00 _____

Init. Calib. Times: 1148 1431

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Dibenzofuran	1.503	1.392		-7.4	
2,4-Dinitrotoluene	0.430	0.392		-8.8	
Diethylphthalate	1.442	1.408		-2.4	
4-Chlorophenyl-Phenyl Ether	0.520	0.440		-15.4	
Fluorene	1.059	1.027		-3.0	
4-Nitroaniline	0.434	0.439		1.2	
4,6-Dinitro-2-methylphenol	0.147	0.144		-2.0	
N-Nitrosodiphenylamine	0.449	0.423		-5.8	20.0
4-Bromophenyl-phenylether	0.200	0.176		-12.0	
Hexachlorobenzene	0.228	0.207		-9.2	
Pentachlorophenol	0.129	0.114		-11.6	20.0
Phenanthrene	0.831	0.779		-6.3	
Anthracene	0.828	0.800		-3.4	
Carbazole	0.926	0.941		1.6	
Di-n-butylphthalate	1.329	1.306		-1.7	
Fluoranthene	1.075	1.022		-4.9	20.0
Pyrene	1.568	1.630		4.0	
Butylbenzylphthalate	0.867	0.897		3.5	
3,3'-Dichlorobenzidine	0.511	0.414		-19.0	
Benzo(a)anthracene	1.235	1.189		-3.7	
Chrysene	0.837	0.835		-0.2	
bis(2-Ethylhexyl)phthalate	0.786	0.867		10.3	
Di-n-octylphthalate	2.427	2.712		11.7	20.0
Benzo(b)fluoranthene	1.660	1.411		-15.0	
Benzo(k)fluoranthene	0.954	1.080		13.2	
Benzo(a)pyrene	1.267	1.096		-13.5	20.0
Indeno(1,2,3-cd)pyrene	1.284	0.868		-32.4	
Dibenz(a,h)anthracene	1.040	0.734		-29.4	
Benzo(g,h,i)perylene	1.158	0.652		-43.7	
Cyclohexanone	1.076	1.343		24.8	
Nitrobenzene-D5	0.463	0.473		2.2	
2-Fluorobiphenyl	1.053	0.942		-10.5	
Terphenyl-D14	1.198	1.194		-0.3	
Phenol-D5	2.030	2.116		4.2	
2-Fluorophenol	1.894	1.647		-13.0	
2,4,6-Tribromophenol	0.208	0.192		-7.7	

(1) Cannot be separated from Diphenylamine

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2098A SAS No.: _____ SDG No.: A2098

Lab File ID: (Standard): >Q9498 Date Analyzed:09/27/00

Instrument ID: HP5971Q Time Analyzed:1804

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	141770	8.32	589618	11.28	363142	15.24
	UPPER LIMIT	283540	8.82	1179236	11.78	726284	15.74
	LOWER LIMIT	70885	7.82	294809	10.78	181571	14.74
	EPA SAMPLE NO.						
01	SBLKGQ	164331	8.32	747310	11.26	413387	15.24
02	SBLKGQFMS	162719	8.32	646942	11.27	401144	15.24
03	SW-07	201835	8.31	843287	11.27	435281	15.24
04	SW-01	224812	8.32	935871	11.27	488956	15.24
05	SW-10	233650	8.32	960252	11.26	507489	15.24
06	SW-02	197720	8.31	851120	11.27	446717	15.24
07	SW-03	185374	8.31	807873	11.27	450454	15.24
08	SW-05	205952	8.31	877638	11.26	473526	15.24
09	SW-04A	203344	8.32	858591	11.26	459717	15.24
10	SW-04B	202445	8.32	864390	11.26	469237	15.24
11	SW-06	210442	8.32	890467	11.26	489177	15.24
12	SW-08	210725	8.31	888739	11.27	461902	15.24
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-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 VIII SV-1

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2098A SAS No.: _____ SDG No.: A2098

Lab File ID: (Standard): >Q9498 Date Analyzed:09/27/00

Instrument ID: HP5971Q Time Analyzed:1804

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	663943	18.29	374268	23.68	210834	26.36
	UPPER LIMIT	1327886	18.79	748536	24.18	421668	26.86
	LOWER LIMIT	331972	17.79	187134	23.18	105417	25.86
	EPA SAMPLE NO.						
01	SBLKGQ	725140	18.29	564263	23.67	315407	26.36
02	SBLKGQFMS	601449	18.30	373265	23.68	205503	26.36
03	SW-07	689253	18.29	279672	23.67	118735	26.36
04	SW-01	783468	18.29	411732	23.67	187699	26.36
05	SW-10	832552	18.29	499743	23.68	251404	26.36
06	SW-02	736578	18.29	547660	23.67	289720	26.36
07	SW-03	763943	18.29	534632	23.67	264265	26.36
08	SW-05	776729	18.29	444987	23.67	228266	26.36
09	SW-04A	759597	18.28	491191	23.67	246749	26.35
10	SW-04B	772046	18.29	506277	23.67	250206	26.35
11	SW-06	831061	18.29	516540	23.67	262611	26.35
12	SW-08	722522	18.28	309337	23.67	157189	26.36
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

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

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

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

FORM VIII SV-2

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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-07

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2098A SAS No.: _____ SDG No.: A2098

Matrix: (soil/water) WATER Lab Sample ID: 002098A-01

Sample wt/vol: 940 (g/mL) ML Lab File ID: >Q9501

Level: (low/med) LOW Date Received: 09/20/00

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 09/22/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/27/00

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/L	Q
108-94-1	Cyclohexanone	11	U
106-44-5	4-Methylphenol	11	U
91-20-3	Naphthalene	11	U
91-57-6	2-Methylnaphthalene	11	U
208-96-8	Acenaphthylene	11	U
83-32-9	Acenaphthene	11	U
86-73-7	Fluorene	11	U
84-66-2	Diethylphthalate	11	U
85-01-8	Phenanthrene	2	J
120-12-7	Anthracene	2	J
206-44-0	Fluoranthene	4	J
129-00-0	Pyrene	5	J
56-55-3	Benzo(a)anthracene	.8	J
218-01-9	Chrysene	3	J
117-81-7	bis(2-Ethylhexyl)phthalate	5	JB
205-99-2	Benzo(b)fluoranthene	2	J
207-08-9	Benzo(k)fluoranthene	2	J
50-32-8	Benzo(a)pyrene	1	J
193-39-5	Indeno(1,2,3-cd)pyrene	2	J
53-70-3	Dibenzo(a,h)anthracene	11	U
191-24-2	Benzo(g,h,i)perylene	2	J

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-01

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2098A SAS No.: _____ SDG No.: A2098

Matrix: (soil/water) WATER Lab Sample ID: 002098A-02

Sample wt/vol: 880 (g/mL) ML Lab File ID: >Q9502

Level: (low/med) LOW Date Received: 09/20/00

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 09/22/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/27/00

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/L	Q
108-94-1	Cyclohexanone	11	U
106-44-5	4-Methylphenol	11	U
91-20-3	Naphthalene	11	U
91-57-6	2-Methylnaphthalene	11	U
208-96-8	Acenaphthylene	11	U
83-32-9	Acenaphthene	11	U
86-73-7	Fluorene	11	U
84-66-2	Diethylphthalate	11	U
85-01-8	Phenanthrene	11	U
120-12-7	Anthracene	11	U
206-44-0	Fluoranthene	.3	J
129-00-0	Pyrene	.3	J
56-55-3	Benzo(a)anthracene	11	U
218-01-9	Chrysene	11	U
117-81-7	bis(2-Ethylhexyl)phthalate	3	JB
205-99-2	Benzo(b)fluoranthene	11	U
207-08-9	Benzo(k)fluoranthene	11	U
50-32-8	Benzo(a)pyrene	11	U
193-39-5	Indeno(1,2,3-cd)pyrene	11	U
53-70-3	Dibenzo(a,h)anthracene	11	U
191-24-2	Benzo(g,h,i)perylene	11	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-10

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2098A SAS No.: _____ SDG No.: A2098

Matrix: (soil/water) WATER Lab Sample ID: 002098A-03

Sample wt/vol: 860 (g/mL) ML Lab File ID: >Q9503

Level: (low/med) LOW Date Received: 09/20/00

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 09/22/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/27/00

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/L	Q
108-94-1	Cyclohexanone	12	U
106-44-5	4-Methylphenol	12	U
91-20-3	Naphthalene	12	U
91-57-6	2-Methylnaphthalene	12	U
208-96-8	Acenaphthylene	12	U
83-32-9	Acenaphthene	12	U
86-73-7	Fluorene	12	U
84-66-2	Diethylphthalate	12	U
85-01-8	Phenanthrene	12	U
120-12-7	Anthracene	12	U
206-44-0	Fluoranthene	12	U
129-00-0	Pyrene	12	U
56-55-3	Benzo(a)anthracene	12	U
218-01-9	Chrysene	12	U
117-81-7	bis(2-Ethylhexyl)phthalate	2	JB
205-99-2	Benzo(b)fluoranthene	12	U
207-08-9	Benzo(k)fluoranthene	12	U
50-32-8	Benzo(a)pyrene	12	U
193-39-5	Indeno(1,2,3-cd)pyrene	12	U
53-70-3	Dibenzo(a,h)anthracene	12	U
191-24-2	Benzo(g,h,i)perylene	12	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-02

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2098A SAS No.: _____ SDG No.: A2098

Matrix: (soil/water) WATER Lab Sample ID: 002098A-04

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >Q9504

Level: (low/med) LOW Date Received: 09/20/00

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 09/22/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/27/00

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/L	Q
108-94-1	Cyclohexanone	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
84-66-2	Diethylphthalate	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	2	JB
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

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EPA SAMPLE NO.

SW-03

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2098A SAS No.: _____ SDG No.: A2098

Matrix: (soil/water) WATER Lab Sample ID: 002098A-05

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >Q9505

Level: (low/med) LOW Date Received: 09/20/00

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 09/22/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/27/00

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/L	Q
108-94-1	Cyclohexanone	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
84-66-2	Diethylphthalate	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	2	JB
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-05

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2098A SAS No.: _____ SDG No.: A2098

Matrix: (soil/water) WATER Lab Sample ID: 002098A-06

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >Q9506

Level: (low/med) LOW Date Received: 09/20/00

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 09/22/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/27/00

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/L	Q
108-94-1	Cyclohexanone	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
84-66-2	Diethylphthalate	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	2	JB
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-04A

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2098A SAS No.: _____ SDG No.: A2098

Matrix: (soil/water)WATER Lab Sample ID: 002098A-07

Sample wt/vol: 1000 (g/mL)ML Lab File ID: >Q9507

Level: (low/med) LOW Date Received: 09/20/00

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/22/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/28/00

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/L	Q
108-94-1	Cyclohexanone	29	
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic acid	50	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U

60 REV

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-04A

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2098A SAS No.: _____ SDG No.: A2098

Matrix: (soil/water) WATER Lab Sample ID: 002098A-07

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >Q9507

Level: (low/med) LOW Date Received: 09/20/00

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 09/22/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/28/00

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/L	Q
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	.2	J
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	2	JB
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

61 REV

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-04B

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2098A SAS No.: _____ SDG No.: A2098

Matrix: (soil/water) WATER Lab Sample ID: 002098A-08

Sample wt/vol: 940 (g/mL) ML Lab File ID: >Q9508

Level: (low/med) LOW Date Received: 09/20/00

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 09/22/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/28/00

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/L	Q
108-94-1	Cyclohexanone	24	
108-95-2	Phenol	11	U
111-44-4	bis(2-Chloroethyl)ether	11	U
95-57-8	2-Chlorophenol	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
100-51-6	Benzyl alcohol	11	U
95-50-1	1,2-Dichlorobenzene	11	U
95-48-7	2-Methylphenol	11	U
108-60-1	bis(2-Chloroisopropyl)ether	11	U
106-44-5	4-Methylphenol	11	U
621-64-7	N-Nitroso-di-n-propylamine	11	U
67-72-1	Hexachloroethane	11	U
98-95-3	Nitrobenzene	11	U
78-59-1	Isophorone	11	U
88-75-5	2-Nitrophenol	11	U
105-67-9	2,4-Dimethylphenol	11	U
65-85-0	Benzoic acid	53	U
111-91-1	bis(2-Chloroethoxy)methane	11	U
120-83-2	2,4-Dichlorophenol	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U
91-20-3	Naphthalene	11	U
106-47-8	4-Chloroaniline	11	U
87-68-3	Hexachlorobutadiene	11	U
59-50-7	4-Chloro-3-methylphenol	11	U
91-57-6	2-Methylnaphthalene	11	U
77-47-4	Hexachlorocyclopentadiene	11	U
88-06-2	2,4,6-Trichlorophenol	11	U
95-95-4	2,4,5-Trichlorophenol	53	U
91-58-7	2-Chloronaphthalene	11	U
88-74-4	2-Nitroaniline	53	U
131-11-3	Dimethylphthalate	11	U
208-96-8	Acenaphthylene	11	U

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1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-04B

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2098A SAS No.: _____ SDG No.: A2098

Matrix: (soil/water) WATER Lab Sample ID: 002098A-08

Sample wt/vol: 940 (g/mL) ML Lab File ID: >Q9508

Level: (low/med) LOW Date Received: 09/20/00

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 09/22/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/28/00

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/L	Q
606-20-2	2,6-Dinitrotoluene	11	U
99-09-2	3-Nitroaniline	53	U
83-32-9	Acenaphthene	11	U
51-28-5	2,4-Dinitrophenol	53	U
100-02-7	4-Nitrophenol	53	U
132-64-9	Dibenzofuran	11	U
121-14-2	2,4-Dinitrotoluene	11	U
84-66-2	Diethylphthalate	11	U
7005-72-3	4-Chlorophenyl-phenylether	11	U
86-73-7	Fluorene	11	U
100-01-6	4-Nitroaniline	53	U
534-52-1	4,6-Dinitro-2-methylphenol	53	U
86-30-6	N-Nitrosodiphenylamine (1)	11	U
101-55-3	4-Bromophenyl-phenylether	11	U
118-74-1	Hexachlorobenzene	11	U
87-86-5	Pentachlorophenol	53	U
85-01-8	Phenanthrene	11	U
120-12-7	Anthracene	11	U
84-74-2	Di-n-butylphthalate	11	U
206-44-0	Fluoranthene	11	U
129-00-0	Pyrene	11	U
85-68-7	Butylbenzylphthalate	11	U
91-94-1	3,3'-Dichlorobenzidine	21	U
56-55-3	Benzo(a)anthracene	11	U
218-01-9	Chrysene	11	U
117-81-7	bis(2-Ethylhexyl)phthalate	2	JB
117-84-0	Di-n-octylphthalate	11	U
205-99-2	Benzo(b)fluoranthene	11	U
207-08-9	Benzo(k)fluoranthene	11	U
50-32-8	Benzo(a)pyrene	11	U
193-39-5	Indeno(1,2,3-cd)pyrene	11	U
53-70-3	Dibenzo(a,h)anthracene	11	U
191-24-2	Benzo(g,h,i)perylene	11	U

(1) - Cannot be separated from Diphenylamine

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-06

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2098A SAS No.: _____ SDG No.: A2098

Matrix: (soil/water) WATER Lab Sample ID: 002098A-09

Sample wt/vol: 910 (g/mL) ML Lab File ID: >Q9509

Level: (low/med) LOW Date Received: 09/20/00

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 09/22/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/28/00

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/L	Q
108-94-1	Cyclohexanone	11	U
106-44-5	4-Methylphenol	11	U
91-20-3	Naphthalene	11	U
91-57-6	2-Methylnaphthalene	11	U
208-96-8	Acenaphthylene	11	U
83-32-9	Acenaphthene	11	U
86-73-7	Fluorene	11	U
84-66-2	Diethylphthalate	11	U
85-01-8	Phenanthrene	1	J
120-12-7	Anthracene	11	U
206-44-0	Fluoranthene	3	J
129-00-0	Pyrene	3	J
56-55-3	Benzo(a)anthracene	.7	J
218-01-9	Chrysene	2	J
117-81-7	bis(2-Ethylhexyl)phthalate	2	JB
205-99-2	Benzo(b)fluoranthene	2	J
207-08-9	Benzo(k)fluoranthene	2	J
50-32-8	Benzo(a)pyrene	1	J
193-39-5	Indeno(1,2,3-cd)pyrene	.9	J
53-70-3	Dibenzo(a,h)anthracene	11	U
191-24-2	Benzo(g,h,i)perylene	.9	J

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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-08

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2098A SAS No.: _____ SDG No.: A2098

Matrix: (soil/water) WATER Lab Sample ID: 002098A-10

Sample wt/vol: 960 (g/mL) ML Lab File ID: >Q9510

Level: (low/med) LOW Date Received: 09/20/00

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 09/22/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/28/00

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/L	Q
108-94-1	Cyclohexanone	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
84-66-2	Diethylphthalate	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	.3	J
129-00-0	Pyrene	.4	J
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	6	JB
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKGQ

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2098A SAS No.: _____ SDG No.: A2098

Matrix: (soil/water) WATER Lab Sample ID: SBLKGQ

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >Q9499

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

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 09/22/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/27/00

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/L	Q
108-94-1	Cyclohexanone	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic acid	50	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U

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1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKGQ

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2098A SAS No.: _____ SDG No.: A2098

Matrix: (soil/water) WATER Lab Sample ID: SBLKGQ

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >Q9499

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

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 09/22/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/27/00

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/L	Q
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	.4	J
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	2	J
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKGQFMS

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2098A SAS No.: _____ SDG No.: A2098

Matrix: (soil/water) WATER Lab Sample ID: SBLKGQFMS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >Q9500

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

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 09/22/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/27/00

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/L	Q
108-94-1	Cyclohexanone	10	U
108-95-2	Phenol	17	
111-44-4	bis(2-Chloroethyl)ether	37	
95-57-8	2-Chlorophenol	39	
541-73-1	1,3-Dichlorobenzene	33	
106-46-7	1,4-Dichlorobenzene	34	
100-51-6	Benzyl alcohol	33	
95-50-1	1,2-Dichlorobenzene	39	
95-48-7	2-Methylphenol	33	
108-60-1	bis(2-Chloroisopropyl)ether	42	
106-44-5	4-Methylphenol	33	
621-64-7	N-Nitroso-di-n-propylamine	42	
67-72-1	Hexachloroethane	32	
98-95-3	Nitrobenzene	36	
78-59-1	Isophorone	35	
88-75-5	2-Nitrophenol	35	
105-67-9	2,4-Dimethylphenol	30	
65-85-0	Benzoic acid	50	U
111-91-1	bis(2-Chloroethoxy)methane	37	
120-83-2	2,4-Dichlorophenol	38	
120-82-1	1,2,4-Trichlorobenzene	32	
91-20-3	Naphthalene	34	
106-47-8	4-Chloroaniline	33	
87-68-3	Hexachlorobutadiene	32	
59-50-7	4-Chloro-3-methylphenol	38	
91-57-6	2-Methylnaphthalene	34	
77-47-4	Hexachlorocyclopentadiene	15	
88-06-2	2,4,6-Trichlorophenol	31	
95-95-4	2,4,5-Trichlorophenol	32	J
91-58-7	2-Chloronaphthalene	41	
88-74-4	2-Nitroaniline	36	J
131-11-3	Dimethylphthalate	34	
208-96-8	Acenaphthylene	29	

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1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKGQFMS

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2098A SAS No.: _____ SDG No.: A2098

Matrix: (soil/water) WATER Lab Sample ID: SBLKGQFMS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >Q9500

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

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 09/22/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/27/00

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/L	Q
606-20-2	2,6-Dinitrotoluene	37	
99-09-2	3-Nitroaniline	34	J
83-32-9	Acenaphthene	31	
51-28-5	2,4-Dinitrophenol	42	J
100-02-7	4-Nitrophenol	22	J
132-64-9	Dibenzofuran	33	
121-14-2	2,4-Dinitrotoluene	35	
84-66-2	Diethylphthalate	32	
7005-72-3	4-Chlorophenyl-phenylether	29	
86-73-7	Fluorene	34	
100-01-6	4-Nitroaniline	39	J
534-52-1	4,6-Dinitro-2-methylphenol	50	
86-30-6	N-Nitrosodiphenylamine (1)	40	
101-55-3	4-Bromophenyl-phenylether	40	
118-74-1	Hexachlorobenzene	39	
87-86-5	Pentachlorophenol	35	J
85-01-8	Phenanthrene	40	
120-12-7	Anthracene	42	
84-74-2	Di-n-butylphthalate	40	
206-44-0	Fluoranthene	43	
129-00-0	Pyrene	43	
85-68-7	Butylbenzylphthalate	45	B
91-94-1	3,3'-Dichlorobenzidine	34	
56-55-3	Benzo(a)anthracene	39	
218-01-9	Chrysene	42	
117-81-7	bis(2-Ethylhexyl)phthalate	43	B
117-84-0	Di-n-octylphthalate	46	
205-99-2	Benzo(b)fluoranthene	39	
207-08-9	Benzo(k)fluoranthene	45	
50-32-8	Benzo(a)pyrene	38	
193-39-5	Indeno(1,2,3-cd)pyrene	34	
53-70-3	Dibenzo(a,h)anthracene	35	
191-24-2	Benzo(g,h,i)perylene	33	

(1) - Cannot be separated from Diphenylamine

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2098A SAS No.: _____ SDG No.: A2098

SOW No.: ILM04.0

Field Sample ID	Lab Sample ID.
SW-07	F002098A-01
SW-01	F002098A-02
SW-10	F002098A-03
SW-02	F002098A-04
SW-03	F002098A-05
SW-05	F002098A-06
SW-04A	F002098A-07
SW-04B	F002098A-08
SW-06	F002098A-09
SW-08	F002098A-10
SW-07D	T002098A-01D
SW-07S	T002098A-01S
SW-07	T002098A-01
SW-01	T002098A-02
SW-10	T002098A-03
SW-02	T002098A-04
SW-03	T002098A-05
SW-05	T002098A-06
SW-04A	T002098A-07
SW-04B	T002098A-08

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES
If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: [illegible] Name: [illegible]

Date: 10/9/00 Title: [illegible]

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COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2098A SAS No.: _____ SDG No.: A2098

SOW No.: ILM04.0

Field Sample ID	Lab Sample ID.
SW-06	T002098A-09
SW-08D	T002098A-10D
SW-08S	T002098A-10S
SW-08	T002098A-10

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES
If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: [signature] Name: Daniel W. Helfrich

Date: 10/7/00 Title: Group Leader

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-07

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2098A SAS No.: _____ SDG No.: A2098

Matrix (soil/water): WATER Lab Sample ID: F002098A-01

Level (low/med): LOW Date Received: 09/20/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	2.5	U		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Filtered Metals

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-01

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2098A SAS No.: _____ SDG No.: A2098

Matrix (soil/water): WATER Lab Sample ID: F002098A-02

Level (low/med): LOW Date Received: 09/20/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	2.5	U		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Filtered Metals

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-10

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2098A SAS No.: _____ SDG No.: A2098

Matrix (soil/water): WATER Lab Sample ID: F002098A-03

Level (low/med): LOW Date Received: 09/20/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	2.5	U		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Filtered Metals

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1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-02

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2098A SAS No.: _____ SDG No.: A2098

Matrix (soil/water): WATER Lab Sample ID: F002098A-04

Level (low/med): LOW Date Received: 09/20/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	2.5	U		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Filtered Metals

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-03

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2098A SAS No.: _____ SDG No.: A2098

Matrix (soil/water): WATER Lab Sample ID: F002098A-05

Level (low/med): LOW Date Received: 09/20/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	3.7	B		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Filtered Metals

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-05

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2098A SAS No.: _____ SDG No.: A2098

Matrix (soil/water): WATER Lab Sample ID: F002098A-06

Level (low/med): LOW Date Received: 09/20/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	2.5	U		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Filtered Metals

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-04A

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2098A SAS No.: _____ SDG No.: A2098

Matrix (soil/water): WATER Lab Sample ID: F002098A-07

Level (low/med): LOW Date Received: 09/20/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	3.4	B		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Filtered Metals

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-04B

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2098A SAS No.: _____ SDG No.: A2098

Matrix (soil/water): WATER Lab Sample ID: F002098A-08

Level (low/med): LOW Date Received: 09/20/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	2.5	U		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Filtered Metals

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-06

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2098A SAS No.: _____ SDG No.: A2098

Matrix (soil/water): WATER Lab Sample ID: F002098A-09

Level (low/med): LOW Date Received: 09/20/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	2.5	U		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Filtered Metals

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-08

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2098A SAS No.: _____ SDG No.: A2098

Matrix (soil/water): WATER Lab Sample ID: F002098A-10

Level (low/med): LOW Date Received: 09/20/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	2.5	U		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Filtered Metals

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1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-07

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2098A SAS No.: _____ SDG No.: A2098

Matrix (soil/water): WATER Lab Sample ID: T002098A-01

Level (low/med): LOW Date Received: 09/20/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	2.5	U		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium	4.0	B		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	12.1			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Total Metals

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1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-01

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2098A SAS No.: _____ SDG No.: A2098

Matrix (soil/water): WATER Lab Sample ID: T002098A-02

Level (low/med): LOW Date Received: 09/20/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	4.4	B		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium	3.1	B		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2.0	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Total Metals

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1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-10

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2098A SAS No.: _____ SDG No.: A2098

Matrix (soil/water): WATER Lab Sample ID: T002098A-03

Level (low/med): LOW Date Received: 09/20/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	2.5	U		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium	3.0	B		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2.2	B		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Total Metals

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1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-02

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2098A SAS No.: _____ SDG No.: A2098

Matrix (soil/water): WATER Lab Sample ID: T002098A-04

Level (low/med): LOW Date Received: 09/20/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	2.5	U		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium	1.0	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2.0	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Total Metals

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-03

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2098A SAS No.: _____ SDG No.: A2098

Matrix (soil/water): WATER Lab Sample ID: T002098A-05

Level (low/med): LOW Date Received: 09/20/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	10.2			P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium	1.2	B		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2.0	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Total Metals

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-05

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2098A SAS No.: _____ SDG No.: A2098

Matrix (soil/water): WATER Lab Sample ID: T002098A-06

Level (low/med): LOW Date Received: 09/20/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	2.5	U		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium	1.0	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	3.2			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Total Metals

087 Rev

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-04A

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2098A SAS No.: _____ SDG No.: A2098

Matrix (soil/water): WATER Lab Sample ID: T002098A-07

Level (low/med): LOW Date Received: 09/20/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	112.	B		P
7440-36-0	Antimony	5.0	U		P
7440-38-2	Arsenic	55.0			P
7440-39-3	Barium	29.2	B		P
7440-41-7	Beryllium	0.50	U		P
7440-43-9	Cadmium	1.2	B		P
7440-70-2	Calcium	54600			P
7440-47-3	Chromium	3.8	B		P
7440-48-4	Cobalt	2.3	B		P
7440-50-8	Copper	8.5	B		P
7439-89-6	Iron	5660			P
7439-92-1	Lead	2.0	U		P
7439-95-4	Magnesium	7710			P
7439-96-5	Manganese	570.			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	2.9	B		P
7440-09-7	Potassium	8750			P
7782-49-2	Selenium	5.0	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	43700			P
7440-28-0	Thallium	6.0	U		P
7440-62-2	Vanadium	1.2	B		P
7440-66-6	Zinc	178.			P
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Total Metals

U.S. EPA - CLP

088 Rev

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-04B

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2098A SAS No.: _____ SDG No.: A2098

Matrix (soil/water): WATER Lab Sample ID: T002098A-08

Level (low/med): LOW Date Received: 09/20/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	120.	B		P
7440-36-0	Antimony	5.0	U		P
7440-38-2	Arsenic	45.2			P
7440-39-3	Barium	26.1	B		P
7440-41-7	Beryllium	0.50	U		P
7440-43-9	Cadmium	2.4	B		P
7440-70-2	Calcium	42200			P
7440-47-3	Chromium	3.8	B		P
7440-48-4	Cobalt	1.6	B		P
7440-50-8	Copper	9.5	B		P
7439-89-6	Iron	5010			P
7439-92-1	Lead	2.7	B		P
7439-95-4	Magnesium	6030			P
7439-96-5	Manganese	413.			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	3.3	B		P
7440-09-7	Potassium	7160			P
7782-49-2	Selenium	5.0	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	36500			P
7440-28-0	Thallium	6.0	U		P
7440-62-2	Vanadium	1.1	B		P
7440-66-6	Zinc	136.			P
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Total Metals

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-06

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2098A SAS No.: _____ SDG No.: A2098

Matrix (soil/water): WATER Lab Sample ID: T002098A-09

Level (low/med): LOW Date Received: 09/20/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	2.5	U		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium	1.0	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2.0	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Total Metals

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-08

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2098A SAS No.: _____ SDG No.: A2098

Matrix (soil/water): WATER Lab Sample ID: T002098A-10

Level (low/med): LOW Date Received: 09/20/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	2.5	U		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium	5.2	B		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	5.8			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Total Metals

9UA

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2098

Initial Calibration Source: INORG. VENT.

Continuing Calibration Source: INORG. VENT.

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum	11000.0	10894.64	99.0	5500.0	5493.63	99.9	5518.93	100.3	P
Antimony	1000.0	991.22	99.1	500.0	490.63	98.1	493.86	98.8	P
Arsenic	1000.0	961.85	96.2	500.0	493.99	98.8	497.08	99.4	P
Barium	1000.0	997.41	99.7	500.0	502.98	100.6	512.56	102.5	P
Beryllium	1000.0	1005.29	100.5	500.0	513.53	102.7	518.79	103.8	P
Cadmium	1000.0	985.82	98.6	500.0	504.24	100.8	509.93	102.0	P
Calcium	27000.0	27015.43	100.0	19800.0	19977.63	100.9	20004.66	101.0	P
Chromium	1000.0	1000.04	100.0	500.0	507.30	101.5	512.60	102.5	P
Cobalt	1000.0	985.09	98.5	500.0	503.22	100.6	506.58	101.3	P
Copper	1000.0	1001.36	100.1	500.0	503.43	100.7	510.35	102.1	P
Iron	11000.0	11055.21	100.5	5500.0	5594.43	101.7	5640.19	102.5	P
Lead	1000.0	976.56	97.6	500.0	500.72	100.1	506.26	101.2	P
Magnesium	27000.0	26137.54	96.8	19800.0	19374.38	97.8	19623.48	99.1	P
Manganese	1000.0	986.39	98.6	500.0	502.30	100.5	505.72	101.1	P
Mercury	5.0	5.25	105.0	5.0	5.30	106.0	5.18	103.6	CV
Nickel	1000.0	954.58	95.4	500.0	488.13	97.6	492.89	98.6	P
Potassium	20000.0	20374.58	101.9	10000.0	9734.78	97.3	9825.33	98.2	P
Selenium	1000.0	964.91	96.5	500.0	498.69	99.7	505.56	101.1	P
Silver	100.0	99.70	99.7	50.0	50.65	101.3	51.59	103.2	P
Sodium	27000.0	25439.16	94.2	19800.0	19934.77	100.7	20233.59	102.2	P
Thallium	1000.0	1015.47	101.5	500.0	530.64	106.1	536.94	107.4	P
Vanadium	1000.0	1019.40	101.9	500.0	513.40	102.7	521.48	104.3	P
Zinc	1000.0	997.13	99.7	500.0	512.93	102.6	516.71	103.3	P
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110 ; Cyanide 85-115;

90B

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2098

Initial Calibration Source: INORG. VENT.

Continuing Calibration Source: INORG. VENT.

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum				5500.0	5433.37	98.8	5444.58	99.0	P
Antimony				500.0	491.59	98.3	493.87	98.8	P
Arsenic				500.0	485.91	97.2	492.91	98.6	P
Barium				500.0	505.14	101.0	505.13	101.0	P
Beryllium				500.0	505.88	101.2	509.99	102.0	P
Cadmium				500.0	497.75	99.6	502.44	100.5	P
Calcium				19800.0	19532.55	98.6	19695.93	99.5	P
Chromium				500.0	501.29	100.2	504.34	100.9	P
Cobalt				500.0	495.45	99.1	499.79	100.0	P
Copper				500.0	501.98	100.4	499.94	100.0	P
Iron				5500.0	5529.04	100.5	5577.11	101.4	P
Lead				500.0	496.96	99.4	499.02	99.8	P
Magnesium				19800.0	19282.89	97.4	19295.12	97.4	P
Manganese				500.0	494.36	98.9	496.56	99.3	P
Mercury				5.0	5.18	103.6	5.45	109.0	CV
Nickel				500.0	481.34	96.3	483.85	96.8	P
Potassium				10000.0	9818.59	98.2	9887.26	98.9	P
Selenium				500.0	499.85	100.0	500.47	100.1	P
Silver				50.0	51.23	102.5	51.35	102.7	P
Sodium				19800.0	19955.68	100.8	19860.70	100.3	P
Thallium				500.0	522.08	104.4	533.99	106.8	P
Vanadium				500.0	513.33	102.7	515.09	103.0	P
Zinc				500.0	502.59	100.5	509.25	101.8	P
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110 ; Cyanide 85-115;

90C

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2098

Initial Calibration Source: INORG. VENT.

Continuing Calibration Source: INORG. VENT.

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum				5500.0	5547.19	100.8			P
Antimony				500.0	494.56	98.9			P
Arsenic				500.0	490.85	98.2			P
Barium				500.0	509.41	101.9			P
Beryllium				500.0	512.50	102.5			P
Cadmium				500.0	504.74	100.9			P
Calcium				19800.0	19877.11	100.4			P
Chromium				500.0	507.97	101.6			P
Cobalt				500.0	504.13	100.8			P
Copper				500.0	506.54	101.3			P
Iron				5500.0	5631.05	102.4			P
Lead				500.0	504.53	100.9			P
Magnesium				19800.0	19449.25	98.2			P
Manganese				500.0	500.78	100.2			P
Mercury				5.0	5.12	102.4			CV
Nickel				500.0	484.85	97.0			P
Potassium				10000.0	9865.76	98.6			P
Selenium				500.0	508.47	101.7			P
Silver				50.0	51.73	103.5			P
Sodium				19800.0	20175.98	101.9			P
Thallium				500.0	536.28	107.2			P
Vanadium				500.0	518.80	103.8			P
Zinc				500.0	511.97	102.4			P
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110 ; Cyanide 85-115;

90D

U.S. EPA - CLP

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2098

AA CRDL Standard Source: INORG. VENT.

ICP CRDL Standard Source: INORG. VENT.

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R(1)	True	Initial Found	%R(1)	Final Found	%R(1)
Aluminum								
Antimony				120.0	120.00	100.0	122.65	102.2
Arsenic				20.0 ~~5.0~~	18.35	~~367.1~~	19.44	~~388.9~~
Barium						91.2		97.2
Beryllium				10.0	10.07	100.7	10.14	101.4
Cadmium				10.0	10.48	104.8	10.47	104.7
Calcium								
Chromium				20.0	20.13	100.7	20.46	102.3
Cobalt				100.0	100.77	100.8	101.38	101.4
Copper				50.0	50.32	100.6	50.85	101.7
Iron								
Lead				6.0 ~~4.0~~	6.56	~~164.1~~	6.07	~~151.9~~
Magnesium						109.1		101.2
Manganese				30.0	30.34	101.1	30.46	101.6
Mercury								
Nickel				80.0	80.68	100.8	80.07	100.1
Potassium								
Selenium				10.0	9.87	98.7	9.43	94.3
Silver				20.0	20.46	102.3	20.69	103.5
Sodium								
Thallium				20.0	20.18	100.9	24.02	120.1
Vanadium				100.0	100.76	100.8	102.01	102.0
Zinc				40.0	40.07	100.2	40.81	102.0
Cyanide								

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U.S. EPA - CLP

3
BLANKS

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2098

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	10.0	U	10.4	B	10.0	U	10.0	U	10.000	U	P
Antimony	5.0	U	5.0	U	5.0	U	5.0	U	5.000	U	P
Arsenic	2.5	U	2.5	U	2.5	U	2.5	U	2.500	U	P
Barium	0.5	U	0.5	U	0.5	U	0.5	U	0.500	U	P
Beryllium	0.5	U	0.5	U	0.5	U	0.5	U	0.500	U	P
Cadmium	0.5	U	0.5	U	0.5	U	0.5	U	0.500	U	P
Calcium	10.0	U	10.0	U	10.0	U	13.8	B	10.000	U	P
Chromium	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Cobalt	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Copper	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Iron	10.0	U	10.0	U	10.0	U	10.0	U	10.000	U	P
Lead	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	P
Magnesium	10.0	U	10.0	U	10.0	U	10.0	U	10.000	U	P
Manganese	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Mercury	-0.1	B	-0.1	B	-0.1	B	-0.1	B	0.100	U	CV
Nickel	1.5	U	1.5	U	1.5	U	1.5	U	1.500	U	P
Potassium	200.0	U	200.0	U	200.0	U	200.0	U	200.000	U	P
Selenium	5.0	U	5.0	U	5.0	U	5.0	U	5.000	U	P
Silver	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Sodium	20.0	U	20.0	U	20.0	U	20.0	U	20.000	U	P
Thallium	6.0	U	6.0	U	6.0	U	6.0	U	6.000	U	P
Vanadium	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Zinc	5.0	U	5.0	U	5.0	U	5.0	U	5.000	U	P
Cyanide											NR

U.S. EPA - CLP

3
BLANKS

91H

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2098

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum			10.0	U	10.0	U					P
Antimony			5.0	U	5.0	U					P
Arsenic			2.5	U	-2.6	B					P
Barium			0.5	U	0.5	U					P
Beryllium			0.5	U	0.5	U					P
Cadmium			0.5	U	0.5	U					P
Calcium			10.0	U	16.0	B					P
Chromium			1.0	U	1.0	U					P
Cobalt			1.0	U	1.0	U					P
Copper			1.0	U	1.0	U					P
Iron			10.0	U	10.0	U					P
Lead			2.0	U	2.0	U					P
Magnesium			10.0	U	11.6	B					P
Manganese			1.0	U	1.0	U					P
Mercury			-0.1	B	-0.1	B					CV
Nickel			1.5	U	1.5	U					P
Potassium			200.0	U	200.0	U					P
Selenium			5.0	U	5.0	U					P
Silver			1.0	U	1.0	U					P
Sodium			20.0	U	20.0	U					P
Thallium			6.0	U	6.0	U					P
Vanadium			1.0	U	1.0	U					P
Zinc			5.0	U	5.0	U					P
Cyanide											NR

91B

U.S. EPA - CLP

4
ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2098

ID Number: JA61 ICS Source: EPA-LV87

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	%R	Final Found Sol. A	Final Found Sol. AB	%R
Aluminum	500000	500000	528586	528926.5	105.7	535274	536133.2	107.2
Antimony		600	3	612.0	102.0	2	618.4	103.0
Arsenic		100	1	95.3	95.3	-2	102.0	102.0
Barium		500	2	536.2	107.2	2	544.0	108.8
Beryllium		500	0	510.4	102.0	0	508.9	101.7
Cadmium		1000	4	915.9	91.5	5	914.9	91.4
Calcium	500000	500000	467404	469221.8	93.8	466853	466980.0	93.3
Chromium		500	1	484.8	96.9	1	487.3	97.4
Cobalt		500	-5	454.4	90.8	-5	455.0	91.0
Copper		500	-3	563.4	112.6	-3	567.8	113.5
Iron	200000	200000	185410	186047.2	93.0	186554	186621.4	93.3
Lead		50	-6	40.4	80.9	-6	40.2	80.4
Magnesium	500000	500000	492719	492567.5	98.5	495124	495076.3	99.0
Manganese		500	-3	475.4	95.0	-3	474.5	94.9
Mercury								
Nickel		1000	-1	876.0	87.6	0	869.8	86.9
Potassium			99	106.7		119	123.9	
Selenium		50	-10	35.2	70.5	-7	36.8	73.7
Silver		200	0	224.9	112.4	0	230.9	115.4
Sodium			70	73.4		80	76.6	
Thallium		100	4	109.2	109.2	7	106.5	106.5
Vanadium		500	0	502.7	100.5	0	509.0	101.8
Zinc		1000	2	934.6	93.4	2	930.0	93.0
Cyanide								

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

SW-07S

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2098A SAS No.: _____ SDG No.: A2098

Matrix: WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony									NR
Arsenic	75-125	38.3999		2.5000	U	40.00	96.0		P
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium	75-125	187.7677		3.9937	B	200.00	91.9		P
Cobalt									NR
Copper									NR
Iron									NR
Lead	75-125	30.7223		12.0773		20.00	93.2		P
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

Comments:
Total Metals

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

SW-08S

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2098A SAS No.: _____ SDG No.: A2098

Matrix: WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury	75-125	1.0400		0.1000	U	1.00	104.0		CV
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

Comments:

U.S. EPA - CLP

6
DUPLICATES

EPA SAMPLE NO.

SW-07D

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2098A SAS No.: _____ SDG No.: A2098

Matrix: WATER Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								NR
Antimony								NR
Arsenic		2.5000	U	2.5000	U			P
Barium								NR
Beryllium								NR
Cadmium								NR
Calcium								NR
Chromium		3.9937	B	3.7629	B	6.0		P
Cobalt								NR
Copper								NR
Iron								NR
Lead	.0	12.0773		12.1478		0.6		P
Magnesium								NR
Manganese								NR
Mercury								NR
Nickel								NR
Potassium								NR
Selenium								NR
Silver								NR
Sodium								NR
Thallium								NR
Vanadium								NR
Zinc								NR
Cyanide								NR

Total Metals

U.S. EPA - CLP

6
DUPLICATES

EPA SAMPLE NO.

SW-08D

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2098A SAS No.: _____ SDG No.: A2098

Matrix: WATER Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								NR
Antimony								NR
Arsenic								NR
Barium								NR
Beryllium								NR
Cadmium								NR
Calcium								NR
Chromium								NR
Cobalt								NR
Copper								NR
Iron								NR
Lead								NR
Magnesium								NR
Manganese								NR
Mercury		0.1000	U	0.1000	U			CV
Nickel								NR
Potassium								NR
Selenium								NR
Silver								NR
Sodium								NR
Thallium								NR
Vanadium								NR
Zinc								NR
Cyanide								NR

Total Metals

96 Rev

U.S. EPA - CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2098

Solid LCS Source: _____

Aqueous LCS Source: INORG. VENT.

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum	3000.0	2662.26	88.7						
Antimony	1000.0	925.47	92.5						
Arsenic	1000.0	925.22	92.5						
Barium	300.0	275.33	91.8						
Beryllium	100.0	97.47	97.5						
Cadmium	300.0	275.28	91.8						
Calcium	15000.0	13656.15	91.0						
Chromium	300.0	272.37	90.8						
Cobalt	300.0	275.35	91.8						
Copper	300.0	273.45	91.2						
Iron	12500.0	11247.56	90.0						
Lead	1000.0	916.97	91.7						
Magnesium	7500.0	6813.46	90.8						
Manganese	200.0	180.42	90.2						
Mercury	5.0	5.30	106.0						
Nickel	300.0	271.59	90.5						
Potassium	20000.0	19798.86	99.0						
Selenium	500.0	506.44	101.3						
Silver	300.0	280.43	93.5						
Sodium	2500.0	2327.98	93.1						
Thallium	1000.0	961.41	96.1						
Vanadium	300.0	274.77	91.6						
Zinc	300.0	286.93	95.6						
Cyanide									

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9

ICP SERIAL DILUTIONS

EPA SAMPLE NO.

SW-07L

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2098A SAS No.: _____ SDG No.: A2098

Matrix(soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum			572.83	B	2.5		P
Antimony			25.00	U			P
Arsenic	2.50	U	12.50	U			P
Barium			28.82	B	5.2		P
Beryllium			2.50	U			P
Cadmium			2.50	U			P
Calcium			5222.68	B	1.1		P
Chromium	3.99	B	5.00	U	100.0		P
Cobalt			5.00	U	100.0		P
Copper			18.69	B	4.2		P
Iron			1987.23		0.4		P
Lead	12.08		10.95	B	9.3		P
Magnesium			808.54	B	0.8		P
Manganese			136.13		6.7		P
Mercury							NR
Nickel			7.50	U	100.0		P
Potassium			1000.00	U	100.0		P
Selenium			25.00	U			P
Silver			5.00	U			P
Sodium			3707.86	B	5.2		P
Thallium			30.00	U			P
Vanadium			5.00	U	100.0		P
Zinc			220.24		15.1		P
Cyanide							NR

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96B

10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2098

ICP ID Number: JA61 Date: 04/17/01

Flame AA ID Number: _____

Furnace AA ID Number: _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	208.20		200.0	18.5	P
Antimony	206.83		60.0	4.5	P
Arsenic	193.60		10.0	4.1	P
Barium	493.40		200.0	.5	P
Beryllium	234.86		5.0	.5	P
Cadmium	228.80		5.0	.8	P
Calcium	317.93		5000.0	17.6	P
Chromium	267.70		10.0	1.0	P
Cobalt	228.61		50.0	1.4	P
Copper	324.75		25.0	1.8	P
Iron	271.44		100.0	15.2	P
Lead	220.35		3.0	2.6	P
Magnesium	279.07		5000.0	11.0	P
Manganese	257.61		15.0	1.5	P
Mercury			.2		
Nickel	231.60		40.0	1.5	P
Potassium	766.49		5000.0	40.9	P
Selenium	196.02		5.0	4.6	P
Silver	328.06		10.0	1.0	P
Sodium	589.59		5000.0	23.1	P
Thallium	189.90		10.0	9.2	P
Vanadium	292.40		50.0	.9	P
Zinc	213.85		20.0	4.4	P

Comments:

U.S. EPA - CLP

96C

10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2098

ICP ID Number: _____ Date: 04/17/01

Flame AA ID Number: HG4

Furnace AA ID Number: _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200.0		
Antimony			60.0		
Arsenic			10.0		
Barium			200.0		
Beryllium			5.0		
Cadmium			5.0		
Calcium			5000.0		
Chromium			10.0		
Cobalt			50.0		
Copper			25.0		
Iron			100.0		
Lead			3.0		
Magnesium			5000.0		
Manganese			15.0		
Mercury	253.70		.2	.1	CV
Nickel			40.0		
Potassium			5000.0		
Selenium			5.0		
Silver			10.0		
Sodium			5000.0		
Thallium			10.0		
Vanadium			50.0		
Zinc			20.0		

Comments:

U.S. EPA - CLP

96D

11A
ICP Interelement correction Factors (Annually)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2098

ICP ID Number: JA61 Date: 06/05/00

Analyte	Wave-length (nm)	Interelement Correction Factors for : Al	Ca	Fe	Mg	Ag
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic						
Barium	493.40	0.0000000	2.3516000	0.0000000	0.0000000	0.0000000
Beryllium	234.86	0.0000000	-2.1540000	0.0000000	0.0000000	0.0000000
Cadmium	228.80	-.0014590	1.1105000	0.0000000	0.0000000	0.0000000
Calcium	317.93	.0086205	0.0000000	0.0000000	.0081618	0.0000000
Chromium	267.70	.0018652		-.0011680	-3.0940000	0.0000000
Cobalt	228.61	0.0000000		.0060000	-13.4160000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	-.4786330
Iron	271.44	.0033661	0.0000000	0.0000000	-.0291150	0.0000000
Lead	220.35	0.0000000	1.9097000	0.0000000	0.0000000	0.0000000
Magnesium	279.07	.0071408	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	-.1392250	.5557496
Mercury						
Nickel	231.60	-.0027450	3.1950000	0.0000000	0.0000000	-.1560630
Potassium	766.49	-.0079430	0.0000000	0.0000000	0.0000000	0.0000000
Selenium						
Silver	328.06	0.0000000		0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000		0.0000000	0.0000000	0.0000000
Thallium						
Vanadium	292.40	0.0000000	0.0000000	-.0040180	0.0000000	.4159166
Zinc	213.85	.0009443	8.7485000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP

96E

11B
ICP Interelement correction Factors (Annually)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2098

ICP ID Number: JA61 Date: 06/05/00

Analyte	Wave-length (nm)	Interelement Correction Factors for : As	B	Ba	Be	Cd
Aluminum	308.21	3.9599940	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	.2221185	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic						
Barium	493.40	0.0000000	0.0000000	0.0000000	.0020452	0.0000000
Beryllium	234.86	2.2054610	0.0000000	3.3925410	0.0000000	.2991092
Cadmium	228.80	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	5.8517630	0.0000000
Chromium	267.70	-6.3830600	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.61	-.4015400	0.0000000	0.0000000	.0524210	.2877358
Copper	324.75	0.0000000	-14.5688000	0.0000000	0.0000000	0.0000000
Iron	271.44	-2.8353600	0.0000000	1.2696520	.0123381	-1.7637400
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.07	-1.9608300	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	.7548212	0.0000000	0.0000000	0.0000000	.0286714
Mercury						
Nickel	231.60	-.3004870	0.0000000	0.0000000	-.0254260	1.6268810
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium						
Silver	328.06	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium						
Vanadium	292.40	-1.4987800	0.0000000	0.0000000	.0845908	.0375521
Zinc	213.85	-1.3146900	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

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11B
ICP Interelement correction Factors (Annually) 94 F

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2098

ICP ID Number: JA61 Date: 06/05/00

Analyte	Wave-length (nm)	Interelement Correction Factors for : Co	Cr	Cu	K	Mn
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0000000	.8822868
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic						
Barium	493.40	.4458370	0.0000000	0.0000000	0.0000000	-.1513210
Beryllium	234.86	0.0000000	-.1224680	0.0000000	0.0000000	0.0000000
Cadmium	228.80	-2.0803500	-1.0195500	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0000000	.9515125	0.0000000	0.0000000	0.0000000
Chromium	267.70	1.2502400	0.0000000	0.0000000	0.0000000	-.0417720
Cobalt	228.61	0.0000000	.0772782	0.0000000	0.0000000	-.0267550
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	-5.5184100	0.0000000	2.1567660	0.0000000	-3.4565100
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.07	0.0000000	1.3531870	0.0000000	.6270879	.1854641
Manganese	257.61	0.0000000	-.5727500	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	-.0428020	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium						
Silver	328.06	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium						
Vanadium	292.40	0.0000000	.4646357	-.7459740	0.0000000	-.4539330
Zinc	213.85	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP

11B

ICP Interelement correction Factors (Annually)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2098

ICP ID Number: JA61 Date: 06/05/00

Analyte	Wave-length (nm)	Interelement Correction Factors for : Mo	Na	Ni	Pb	Sb
Aluminum	308.21	0.0000000	0.0000000	0.0000000	7.4656990	.4182633
Antimony	206.83	0.0000000	.0959060	5.1763370	1.2997970	0.0000000
Arsenic						
Barium	493.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.86	0.0000000	0.0000000	-.0145800	0.0000000	-1.6234400
Cadmium	228.80	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0000000	.0105777	0.0000000	0.0000000	-1.3041900
Chromium	267.70	1.5194300	0.0000000	.4416338	-.1202820	7.7030790
Cobalt	228.61	-.0124570	0.0000000	2.2201410	.6915992	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	-3.6280800	0.0000000
Iron	271.44	-1.3566400	0.0000000	.5093932	.5134977	1.1269720
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.07	0.0000000	0.0000000	0.0000000	-.5954890	2.3300000
Manganese	257.61	0.0000000	0.0000000	0.0000000	4.4615890	0.0000000
Mercury						
Nickel	231.60	5.5485240	0.0000000	0.0000000	-.2555120	2.1088370
Potassium	766.49	0.0000000	.1218416	0.0000000	0.0000000	0.0000000
Selenium						
Silver	328.06	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium						
Vanadium	292.40	.9487286	0.0000000	0.0000000	-1.4936400	-.4668710
Zinc	213.85	0.0000000	0.0000000	0.0000000	0.0000000	-.6141440

Comments:

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11B
ICP Interelement correction Factors (Annually) 96 H

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2098

ICP ID Number: JA61 Date: 06/05/00

Analyte	Wave-length (nm)	Interelement Correction Factors for : Se	Sn	Ti	Tl	V
Aluminum	308.21	6.2168040	.3024854	0.0000000	0.0000000	0.0000000
Antimony	206.83	3.0897440	-.6053750	0.0000000	0.0000000	0.0000000
Arsenic						
Barium	493.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.86	0.0000000	.6761988	0.0000000	0.0000000	0.0000000
Cadmium	228.80	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.93	1.7640180	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.70	0.0000000	.2208577	.9567213	4.5557730	1.2170310
Cobalt	228.61	2.5668270	.4390100	-.0063100	-6.0023600	0.0000000
Copper	324.75	.0519865	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	-1.8581700	.0754601	0.0000000	0.0000000	0.0000000
Lead	220.35	.9428241	1.1606640	0.0000000	0.0000000	0.0000000
Magnesium	279.07	-.0000450	-.0000240	.0131000	0.0000000	-.0050000
Manganese	257.61	2.4119190	-.3639270	0.0000000	-1.1010300	.9414657
Mercury						
Nickel	231.60	0.0000000	-.7297880	0.0000000	0.0000000	0.0000000
Potassium	766.49	5.3734670	0.0000000	0.0000000	0.0000000	0.0000000
Selenium						
Silver	328.06	.5868963	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	3.1253820	0.0000000	0.0000000	0.0000000	0.0000000
Thallium						
Vanadium	292.40	-.0953390	-.3701520	0.0000000	2.6711040	0.0000000
Zinc	213.85	.1325478	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP

11B
ICP Interelement correction Factors (Annually) 96 I

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2098

ICP ID Number: JA61 Date: 06/05/00

Analyte	Wave-length (nm)	Interelement Correction Factors for : Zn	Zr			
Aluminum	308.21	0.0000000	0.0000000			
Antimony	206.83	-1.0792400	0.0000000			
Arsenic						
Barium	493.40	-.1870990	0.0000000			
Beryllium	234.86	0.0000000	0.0000000			
Cadmium	228.80	0.0000000	0.0000000			
Calcium	317.93	-.4802940	.8045480			
Chromium	267.70	0.0000000	-.0096980			
Cobalt	228.61	-1.6896500	1.0255960			
Copper	324.75	-1.9375200	0.0000000			
Iron	271.44	3.6036430	0.0000000			
Lead	220.35	0.0000000	0.0000000			
Magnesium	279.07	0.0000000	0.0000000			
Manganese	257.61	-.3086080	0.0000000			
Mercury						
Nickel	231.60	-4.4617100	0.0000000			
Potassium	766.49	0.0000000	0.0000000			
Selenium						
Silver	328.06	-1.8535700	0.0000000			
Sodium	589.59	-1.2720500	0.0000000			
Thallium						
Vanadium	292.40	-.1061740	0.0000000			
Zinc	213.85	0.0000000	0.0000000			

Comments:

U.S. EPA - CLP

12
ICP Linear Ranges (Quarterly)

96J

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2098

ICP ID Number: JA61 Date: 04/17/01

Analyte	Integ. Time (sec.)	Concentration (ug/L)	M
Aluminum	6.00	500000.0	P
Antimony	6.00	10000.0	P
Arsenic	6.00	10000.0	P
Barium	6.00	10000.0	P
Beryllium	6.00	10000.0	P
Cadmium	6.00	10000.0	P
Calcium	6.00	200000.0	P
Chromium	6.00	200000.0	P
Cobalt	6.00	10000.0	P
Copper	6.00	100000.0	P
Iron	6.00	500000.0	P
Lead	6.00	500000.0	P
Magnesium	6.00	500000.0	P
Manganese	6.00	10000.0	P
Mercury			NR
Nickel	6.00	10000.0	P
Potassium	6.00	100000.0	P
Selenium	6.00	10000.0	P
Silver	6.00	10000.0	P
Sodium	6.00	500000.0	P
Thallium	6.00	100000.0	P
Vanadium	6.00	10000.0	P
Zinc	6.00	10000.0	P

Comments:

U.S. EPA - CLP

13
PREPARATION LOG

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2098A SAS No.: _____ SDG No.: A2098

Method: P

EPA Sample No.	Preparation Date	Weight ~~(gram)~~ mL	Volume (mL)
F002098A-01	10/02/00	100.00	100
F002098A-02	10/02/00	100.00	100
F002098A-03	10/02/00	100.00	100
F002098A-04	10/02/00	100.00	100
F002098A-05	10/02/00	100.00	100
F002098A-06	10/02/00	100.00	100
F002098A-07	10/02/00	100.00	100
F002098A-08	10/02/00	100.00	100
F002098A-09	10/02/00	100.00	100
F002098A-10	10/02/00	100.00	100
LCSW1	10/02/00	100.00	100
PBW1	10/02/00	100.00	100
T002098A-01	10/02/00	100.00	100
T002098A-01D	10/02/00	100.00	100
T002098A-01S	10/02/00	100.00	100
T002098A-01SD	10/02/00	100.00	100
T002098A-02	10/02/00	100.00	100
T002098A-03	10/02/00	100.00	100
T002098A-04	10/02/00	100.00	100
T002098A-05	10/02/00	100.00	100
T002098A-06	10/02/00	100.00	100
T002098A-07	10/02/00	100.00	100
T002098A-08	10/02/00	100.00	100
T002098A-09	10/02/00	100.00	100
T002098A-10	10/02/00	100.00	100

96 L

U.S. EPA - CLP

13
PREPARATION LOG

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2098A SAS No.: _____ SDG No.: A2098

Method: CV

EPA Sample No.	Preparation Date	Weight (~~gram~~ mL) DV 5/26/0	Volume (mL)
002098A-01	09/29/00	25.00	25
002098A-02	09/29/00	25.00	25
002098A-03	09/29/00	25.00	25
002098A-04	09/29/00	25.00	25
002098A-05	09/29/00	25.00	25
002098A-06	09/29/00	25.00	25
002098A-07	09/29/00	25.00	25
002098A-08	09/29/00	25.00	25
002098A-09	09/29/00	25.00	25
002098A-10	09/29/00	25.00	25
002098A-10D	09/29/00	25.00	25
002098A-10S	09/29/00	25.00	25
LCSW1	09/29/00	25.00	25
LCSW2	09/29/00	Z	25
LCSW3	09/29/00		25
PBW1	09/29/00	25.00	25
PBW2	09/29/00	Z	25
PBW3	09/29/00		25

U.S. EPA - CLP

96 M

14
ANALYSIS RUN LOG

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2098

Instrument ID Number: JA61 Method: P

Start Date: 10/04/00 End Date: 10/04/00

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S1	1.00	1221		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	1.00	1226																									
ZZZZZZ	1.00	1234																									
S4	1.00	1239		X		X	X	X	X		X	X	X		X		X		X		X	X		X	X	X	
S9	1.00	1242		X						X				X		X							X				
S6	1.00	1246		X						X				X		X							X				
S5	1.00	1249			X															X							
S3	1.00	1252								X				X		X							X				
S7	1.00	1255																			X						
	1.00	1258																			X						
CCV1	1.00	1259		X		X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	X	X	X	
ICV1	1.00	1304			X															X							
ICB1	1.00	1309		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	1.00	1314																									
CRI1	1.00	1319			X	X		X	X		X	X	X		X		X		X		X	X		X	X	X	
ZZZZZZ	1.00	1328																									
ICSAI	1.00	1344		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICSABI	1.00	1349		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV1	1.00	1354		X		X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	X	X	X	
CCV1	1.00	1359			X															X							
CCB1	1.00	1403		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
PBW1	1.00	1408		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
LCSW1	1.00	1413		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
T002098A-01	1.00	1418				X					X				X												
F002098A-01	1.00	1423				X																					
T002098A-01D	1.00	1427		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
T002098A-01S	1.00	1432		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
T002098A-01S	1.00	1437																									
T002098A-01A	1.00	1442																									
T002098A-01L	5.00	1448		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
T002098A-02	1.00	1459				X					X				X												
CCV2	1.00	1504		X		X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	X	X	X	
CCV2	1.00	1509			X															X							

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14
ANALYSIS RUN LOG

96 N

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2098

Instrument ID Number: JA61 Method: P

Start Date: 10/04/00 End Date: 10/04/00

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CCB2	1.00	1514		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
F002098A-02	1.00	1519				X																					
T002098A-03	1.00	1524				X					X				X												
F002098A-03	1.00	1528				X																					
T002098A-04	1.00	1533				X					X				X												
F002098A-04	1.00	1538				X																					
T002098A-05	1.00	1543				X					X				X												
F002098A-05	1.00	1548				X																					
T002098A-06	1.00	1552				X					X				X												
02098A-06	1.00	1557				X																					
02098A-07	1.00	1602		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV3	1.00	1607		X		X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	X	X	X	
CCV3	1.00	1612			X															X							
CCB3	1.00	1616		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
F002098A-07	1.00	1621				X																					
T002098A-08	1.00	1626		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
F002098A-08	1.00	1631				X																					
T002098A-09	1.00	1636				X					X				X												
F002098A-09	1.00	1640				X																					
T002098A-10	1.00	1645				X					X				X												
F002098A-10	1.00	1650				X																					
ZZZZZZ	1.00	1655																									
ZZZZZZ	1.00	1700																									
ZZZZZZ	5.00	1704																									
CCV4	1.00	1709		X		X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	X	X	X	
CCV4	1.00	1714			X															X							
CCB4	1.00	1719		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	1.00	1724																									
ZZZZZZ	1.00	1729																									
ZZZZZZ	0.00100	1733																									
ZZZZZZ	5.00	1738																									
ZZZZZZ	1.00	1743																									
ZZZZZZ	5.00	1748																									

U.S. EPA - CLP

96 0

14
ANALYSIS RUN LOG

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2098

Instrument ID Number: JA61 Method: P

Start Date: 10/04/00 End Date: 10/04/00

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	1753																									
CRI2	1.00	1757			X	X		X	X		X	X	X		X		X		X		X	X		X	X	X	
ICSAF	1.00	1802		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICSABF	1.00	1807		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV5	1.00	1812		X		X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	X	X	X	
CCV5	1.00	1817			X															X							
CCB5	1.00	1822		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	

U.S. EPA - CLP

14

ANALYSIS RUN LOG

96 P

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2098

Instrument ID Number: HG4 Method: CV

Start Date: 09/29/00 End Date: 09/29/00

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1358																X									
S0	1.00	1359																X									
S1	1.00	1401																X									
S2	1.00	1403																X									
S5	1.00	1405																X									
S1	1.00	1407																X									
ICV1	1.00	1409																X									
ICB1	1.00	1412																X									
CCV1	1.00	1413																X									
B1	1.00	1415																X									
W1	1.00	1417																X									
LCSW1	1.00	1418																X									
ZZZZZZ	1.00	1420																									
ZZZZZZ	1.00	1422																									
ZZZZZZ	10.0	1424																									
ZZZZZZ	10.0	1425																									
ZZZZZZ	1.00	1427																									
ZZZZZZ	1.00	1429																									
ZZZZZZ	10.0	1431																									
ZZZZZZ	10.0	1432																									
CCV2	1.00	1434																X									
CCB2	1.00	1436																X									
ZZZZZZ	10.0	1438																									
ZZZZZZ	10.0	1439																									
ZZZZZZ	10.0	1441																									
ZZZZZZ	1.00	1442																									
ZZZZZZ	1.00	1444																									
ZZZZZZ	1.00	1446																									
ZZZZZZ	1.00	1447																									
ZZZZZZ	1.00	1449																									
ZZZZZZ	1.00	1451																									
ZZZZZZ	1.00	1452																									
CCV3	1.00	1454																X									

U.S. EPA - CLP

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ANALYSIS RUN LOG

44 a

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2098

Instrument ID Number: HG4 Method: CV

Start Date: 09/29/00 End Date: 09/29/00

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CCB3	1.00	1456																X									
ZZZZZZ	1.00	1457																									
ZZZZZZ	1.00	1459																									
ZZZZZZ	1.00	1501																									
ZZZZZZ	1.00	1503																									
T002098A-01	1.00	1504																X									
T002098A-02	1.00	1506																X									
T002098A-03	1.00	1522																X									
ZZZZZZ	1.00	1524																									
ZZZZ	1.00	1526																									
02098A-04	1.00	1528																X									
CCV4	1.00	1530																X									
CCB4	1.00	1532																X									
CCB4	1.00	1532																X									
T002098A-05	1.00	1533																X									
T002098A-06	1.00	1535																X									
T002098A-07	1.00	1537																X									
T002098A-08	1.00	1538																X									
T002098A-09	1.00	1540																X									
T002098A-10	1.00	1542																X									
T002098A-10D	1.00	1543																X									
T002098A-10S	1.00	1545																X									
ZZZZZZ	1.00	1547																									
ZZZZZZ	1.00	1548																									
CCV5	1.00	1551																X									
CCB5	1.00	1553																X									

COVER PAGE - WET CHEM ANALYSES DATA PACKAGE

Lab Name: STL Contract:

Lab Code: STL Case No.: 2098A SAS No.: SDG No.: A2098

SOW No.:

Sample No.	Lab Sample ID
SW-07	002098A-01
SW-01	002098A-02
SW-10	002098A-03
SW-02	002098A-04
SW-03	002098A-05
SW-05	002098A-06
SW-04A	002098A-07
SW-04B	002098A-08
SW-06	002098A-09
SW-08	002098A-10

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Name: Daniel W. Helfrich

Date: 10/5/00 Title: Group Leader

WET CHEM ANALYSIS

3
BLANKS

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2098A SAS No.: _____ SDG No.: A2098

Analyte	Initial Calib. Blank	C	Continuing Calibration Blank 1	C	2	C	3	C	Prepa-ration Blank	C	units	M
TSS									5.0	U	mg/L	G

FORM III - IN ILM03.0

5
DUPLICATES

SAMPLE NO.

LECHATE 9/00

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2098A SAS No.: _____ SDG No.: A2098

% Solids for Sample: 0 % Solids for Duplicate: 0

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Units	M
TSS	20	235		233		.8		mg/L	G

FORM V - WC

LABORATORY CONTROL SAMPLE

Lab Name: STL Contract:

Lab Code: STL Case No.: 2098A SAS No.: SDG No.: A2098

Analyte	True	LCS Found	%R	units	LCS Source
TSS	374.5	342	91.3	mg/L	

FORM VI - WC

HOLD TIME REPORT

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2098A SAS No.: _____ SDG No.: A2098

Analyte : TSS

Client Sample ID	Date Received	Date Prepped	Date Analyzed
SW-07	09/20/00	09/21/00	09/21/00 00:00
SW-01	09/20/00	09/21/00	09/21/00 00:00
SW-10	09/20/00	09/21/00	09/21/00 00:00
SW-02	09/20/00	09/21/00	09/21/00 00:00
SW-03	09/20/00	09/21/00	09/21/00 00:00
SW-05	09/20/00	09/21/00	09/21/00 00:00
SW-04A	09/20/00	09/21/00	09/21/00 00:00
SW-04B	09/20/00	09/21/00	09/21/00 00:00
SW-06	09/20/00	09/21/00	09/21/00 00:00
SW-08	09/20/00	09/21/00	09/21/00 00:00
LECHATE 9/00	09/20/00	09/21/00	09/21/00 00:00
002054A-01D		09/21/00	09/21/00 00:00

SEVERN TRENT SERVICES

STL Connecticut
128 Long Hill Cross Road
Shelton, CT 06484

Tel: 203 929 8140
Fax: 203 929 8142
www.stl-inc.com

October 24, 2000

Mr. Larry Mctiernan
ROUX ASSOCIATES-MA
25 Corporate Drive
Suite 230
Burlington, MA 01803

Dear Mr. Mctiernan :

Please find enclosed the analytical results of 6 sample(s) received at our laboratory on September 20, 2000. This report contains sections addressing the following information at a minimum:

- sample summary
- analytical methodology
- state certifications
- definition of data qualifiers and terminology
- analytical results
- chain-of-custody

STL Report #7000-2293A	Purchase Order #06626M32
Project ID: INDUSTRIALPLEX	

Copies of this analytical report and supporting data are maintained in our files for a minimum of five years unless special arrangements have been made. Unless specifically indicated, all analytical testing was performed at this laboratory location and no portion of the testing was subcontracted.

We appreciate your selection of our services and welcome any questions or suggestions you may have relative to this report. Please contact your customer service representative at (203) 929-8140 for any additional information. Thank you for utilizing our services; we hope you will consider us for your future analytical needs.

I have reviewed and approved the enclosed data for final release.

Very truly yours,

Jeffrey C. Curran
Laboratory Manager

JCC

7000-2293A
ROUX ASSOCIATES

Case Narrative

Sample Receipt – All samples were received in good condition and at proper temperature. The samples were received on 9/20/00, and logged in under STL-CT Job 7000-2098A. Sample SW-09 and the field blank, were inadvertently not logged in or reported. These samples were relogged under Job 7000-2293A. The SVOA and TSS analyses were performed outside of the seven day analytical holding time.

Classical Chemistry - Listed below are the wet chemistry analyte methods and references for the samples analyzed in this SDG. No analytical problems were encountered.

Analyte	Method	Reference
TSS	160.2	1

References:

1. Methods of Chemical Analysis of Water and Wastes, EPA 600, 1983.

Metals – ICAP metals were determined using a JA61E trace ICAP; mercury was determined by cold vapor technique using a Leeman Labs mercury analyzer; following guidance provided in SW846 according to methods: ICAP – 3010A/6010B; mercury-7470A.

No problems occurred during analysis. All appropriate protocols were employed. All data appears to be consistent.

Semi-Volatile Organics - Semi-volatile organic samples were extracted and analyzed by capillary GC/MS using guidance provided in Methods 3510C/8270C. The instrumentation used was a Hewlett-Packard Gas Chromatograph interfaced with a Mass Selective Detector.

As per client request, the samples were extracted out of hold and analyzed.

The spike recovery for the compound, pentachlorophenol, was below recovery limits for SBLKO2FMS.

TABLE SV-1.0
7000-2293A
ROUX ASSOCIATES-MA
TCL SEMI-VOLATILE ORGANICS

All values are ug/L.

Client Sample I.D.	Method Blank	SW-09	SW-09 MS	Quant. Limits with no Dilution
Lab Sample I.D.	SBLK02	002293A-01	002293A-01MS	
Method Blank I.D.	SBLK02	SBLK02	SBLK02	
Quant. Factor	1.00	1.11	1.05	
Cyclohexanone	U	U	U	10
Phenol	U	U	41X	10
bis(2-Chloroethyl)ether	U	U	U	10
2-Chlorophenol	U	U	77X	10
1,3-Dichlorobenzene	U	U	U	10
1,4-Dichlorobenzene	U	U	41X	10
Benzyl alcohol	U	U	U	10
1,2-Dichlorobenzene	U	U	U	10
2-Methylphenol	U	U	U	10
bis(2-Chloroisopropyl)ether	U	U	U	10
4-Methylphenol	U	U	U	10
N-Nitroso-di-n-propylamine	U	U	41X	10
Hexachloroethane	U	U	U	10
Nitrobenzene	U	U	U	10
Isophorone	U	U	U	10
2-Nitrophenol	U	U	U	10
2,4-Dimethylphenol	U	U	U	10
Benzoic acid	U	U	U	50
bis(2-Chloroethoxy)methane	U	U	U	10
2,4-Dichlorophenol	U	U	U	10
1,2,4-Trichlorobenzene	U	U	44X	10
Naphthalene	U	U	U	10
4-Chloroaniline	U	U	U	10
Hexachlorobutadiene	U	U	U	10
4-Chloro-3-methylphenol	U	U	86EX	10
2-Methylnaphthalene	U	U	U	10
Hexachlorocyclopentadiene	U	U	U	10
2,4,6-Trichlorophenol	U	U	U	10
2,4,5-Trichlorophenol	U	U	U	50
2-Chloronaphthalene	U	U	U	10
2-Nitroaniline	U	U	U	50
Dimethylphthalate	U	U	U	10
Acenaphthylene	U	U	U	10
2,6-Dinitrotoluene	U	U	U	10
3-Nitroaniline	U	U	U	50
Date Received		09/20/00	09/20/00	
Date Extracted	10/12/00	10/12/00	10/12/00	
Date Analyzed	10/13/00	10/17/00	10/17/00	

See Appendix for qualifier definitions
Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE SV-1.0
7000-2293A
ROUX ASSOCIATES-MA
TCL SEMI-VOLATILE ORGANICS

All values are ug/L.

Client Sample I.D.	Method Blank	SW-09	SW-09 MS	Quant. Limits with no Dilution
Lab Sample I.D.	SBLK02	002293A-01	002293A-01MS	
Method Blank I.D.	SBLK02	SBLK02	SBLK02	
Quant. Factor	1.00	1.11	1.05	
Acenaphthene	U	U	39X	10
2,4-Dinitrophenol	U	U	U	50
4-Nitrophenol	U	U	51JX	50
Dibenzofuran	U	U	U	10
2,4-Dinitrotoluene	U	U	47X	10
Diethylphthalate	U	U	U	10
4-Chlorophenyl-phenylether	U	U	U	10
Fluorene	U	U	U	10
4-Nitroaniline	U	U	U	50
4,6-Dinitro-2-methylphenol	U	U	U	50
N-Nitrosodiphenylamine (1)	U	U	U	10
4-Bromophenyl-phenylether	U	U	U	10
Hexachlorobenzene	U	U	U	10
Pentachlorophenol	U	U	83X	50
Phenanthrene	U	U	U	10
Anthracene	U	U	U	10
Di-n-butylphthalate	U	U	U	10
Fluoranthene	U	U	U	10
Pyrene	U	U	45X	10
Butylbenzylphthalate	U	U	U	10
3,3'-Dichlorobenzidine	U	U	U	20
Benzo(a)anthracene	U	U	U	10
Chrysene	U	U	U	10
bis(2-Ethylhexyl)phthalate	U	U	U	10
Di-n-octylphthalate	U	U	U	10
Benzo(b)fluoranthene	U	U	U	10
Benzo(k)fluoranthene	U	U	U	10
Benzo(a)pyrene	U	U	U	10
Indeno(1,2,3-cd)pyrene	U	U	U	10
Dibenzo(a,h)anthracene	U	U	U	10
Benzo(g,h,i)perylene	U	U	U	10
Date Received		09/20/00	09/20/00	
Date Extracted	10/12/00	10/12/00	10/12/00	
Date Analyzed	10/13/00	10/17/00	10/17/00	

See Appendix for qualifier definitions
Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE SV-1.1
7000-2293A
ROUX ASSOCIATES-MA
TCL SEMI-VOLATILE ORGANICS

Aqueous

All values are ug/L.

Client Sample I.D.	SW-09 MSD	FB		Quant. Limits with no Dilution
Lab Sample I.D.	002293A-01 MSD	002293A-02		
Method Blank I.D.	SBLKO2	SBLKO2		
Quant. Factor	1.00	1.11		
Cyclohexanone	U	U		10
Phenol	40X	U		10
bis(2-Chloroethyl)ether	U	U		10
2-Chlorophenol	78X	U		10
1,3-Dichlorobenzene	U	U		10
1,4-Dichlorobenzene	42X	U		10
Benzyl alcohol	U	U		10
1,2-Dichlorobenzene	U	U		10
2-Methylphenol	U	U		10
bis(2-Chloroisopropyl)ether	U	U		10
4-Methylphenol	U	U		10
N-Nitroso-di-n-propylamine	42X	U		10
Hexachloroethane	U	U		10
Nitrobenzene	U	U		10
Isophorone	U	1J		10
2-Nitrophenol	U	U		10
2,4-Dimethylphenol	U	U		10
Benzoic acid	U	U		50
bis(2-Chloroethoxy)methane	U	U		10
2,4-Dichlorophenol	U	U		10
1,2,4-Trichlorobenzene	45X	U		10
Naphthalene	U	U		10
4-Chloroaniline	U	U		10
Hexachlorobutadiene	U	U		10
4-Chloro-3-methylphenol	87EX	U		10
2-Methylnaphthalene	U	U		10
Hexachlorocyclopentadiene	U	U		10
2,4,6-Trichlorophenol	U	U		10
2,4,5-Trichlorophenol	U	U		50
2-Chloronaphthalene	U	U		10
2-Nitroaniline	U	U		50
Dimethylphthalate	U	U		10
Acenaphthylene	U	U		10
2,6-Dinitrotoluene	U	U		10
3-Nitroaniline	U	U		50
Date Received	09/20/00	09/20/00		
Date Extracted	10/12/00	10/12/00		
Date Analyzed	10/17/00	10/17/00		

See Appendix for qualifier definitions
Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE SV-1.1
7000-2293A
ROUX ASSOCIATES-MA
TCL SEMI-VOLATILE ORGANICS

All values are ug/L.

Client Sample I.D.	SW-09 MSD	FB		Quant. Limits with no Dilution
Lab Sample I.D.	002293A-01 MSD	002293A-02		
Method Blank I.D.	SBLKO2	SBLKO2		
Quant. Factor	1.00	1.11		
Acenaphthene	40X	U		10
2,4-Dinitrophenol	U	U		50
4-Nitrophenol	49JX	U		50
Dibenzofuran	U	U		10
2,4-Dinitrotoluene	48X	U		10
Diethylphthalate	U	U		10
4-Chlorophenyl-phenylether	U	U		10
Fluorene	U	U		10
4-Nitroaniline	U	U		50
4,6-Dinitro-2-methylphenol	U	U		50
N-Nitrosodiphenylamine (1)	U	U		10
4-Bromophenyl-phenylether	U	U		10
Hexachlorobenzene	U	U		10
Pentachlorophenol	87EX	U		50
Phenanthrene	U	U		10
Anthracene	U	U		10
Di-n-butylphthalate	U	U		10
Fluoranthene	U	U		10
Pyrene	43X	U		10
Butylbenzylphthalate	U	U		10
3,3'-Dichlorobenzidine	U	U		20
Benzo(a)anthracene	U	U		10
Chrysene	U	U		10
bis(2-Ethylhexyl)phthalate	U	U		10
Di-n-octylphthalate	U	U		10
Benzo(b)fluoranthene	U	U		10
Benzo(k)fluoranthene	U	U		10
Benzo(a)pyrene	U	U		10
Indeno(1,2,3-cd)pyrene	U	U		10
Dibenzo(a,h)anthracene	U	U		10
Benzo(g,h,i)perylene	U	U		10
Date Received	09/20/00	09/20/00		
Date Extracted	10/12/00	10/12/00		
Date Analyzed	10/17/00	10/17/00		

See Appendix for qualifier definitions
Note: Compound detection limit = quantitation limit x quantitation factor
Quant. Factor = a numerical value which takes into account any variation in sample weight/volume, % moisture and sample dilution.

TABLE AS-1.0
7000-2293A
ROUX ASSOCIATES-MA
TAL METALS (Dissolved)

Aqueous

All values are ug/L.

Client Sample I.D.	SW-09	SW-09 D	SW-09 S	FB
Lab Sample I.D.	002293A-01	002293A-01D	002293A-01S	002293A-02
Aluminum	NR	NR	NR	NR
Antimony	NR	NR	NR	NR
Arsenic	2.8B	2.7B	43.7	2.5U
Barium	NR	NR	NR	NR
Beryllium	NR	NR	NR	NR
Cadmium	NR	NR	NR	NR
Calcium	NR	NR	NR	NR
Chromium	NR	NR	NR	NR
Cobalt	NR	NR	NR	NR
Copper	NR	NR	NR	NR
Iron	NR	NR	NR	NR
Lead	NR	NR	NR	NR
Magnesium	NR	NR	NR	NR
Manganese	NR	NR	NR	NR
Mercury	NR	NR	NR	NR
Nickel	NR	NR	NR	NR
Potassium	NR	NR	NR	NR
Selenium	NR	NR	NR	NR
Silver	NR	NR	NR	NR
Sodium	NR	NR	NR	NR
Thallium	NR	NR	NR	NR
Vanadium	NR	NR	NR	NR
Zinc	NR	NR	NR	NR

See Appendix for qualifier definitions

TABLE AS-1.1
7000-2293A
ROUX ASSOCIATES-MA
TAL METALS (Total)

Aqueous

All values are ug/L.

Client Sample I.D.	SW-09	SW-09 D	SW-09 S	FB
Lab Sample I.D.	002293A-01	002293A-01D	002293A-01S	002293A-02
Aluminum	42.2B	32.9B	1940	10.0U
Antimony	5.0U	5.0U	510.	5.0U
Arsenic	21.5	19.7	61.0	2.5U
Barium	27.4B	27.6B	1970	3.4B
Beryllium	0.50U	0.50U	50.4	0.50U
Cadmium	0.50U	0.50U	5.1	0.50U
Calcium	38100	38300	NR	12500
Chromium	2.1B	2.0B	194.	1.0U
Cobalt	1.0B	1.0B	473.	1.0U
Copper	6.8B	7.2B	241.	2.6B
Iron	1730	1730	2650	41.1B
Lead	2.0U	2.0U	19.7	2.0U
Magnesium	5430	5470	NR	1840B
Manganese	324.	325.	783.	4.2B
Mercury	0.10U	0.10U	0.87	0.10U
Nickel	2.4B	2.7B	472.	1.5U
Potassium	6880	6940	NR	626.B
Selenium	5.0U	5.0U	12.4	5.0U
Silver	1.0U	1.0U	49.2	1.0U
Sodium	33500	33600	NR	4860B
Thallium	6.0U	6.0U	50.7	6.0U
Vanadium	1.0U	1.0U	495.	1.0U
Zinc	149.	158.	636.	9.0B

See Appendix for qualifier definitions

1

WET CHEM ANALYSIS DATA SHEET

SAMPLE NO.

SW-09

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2293A SAS No.: _____ SDG No.: A2293

Matrix (soil/water): WATER Lab Sample ID: 002293A-01

% Solids: 0 Date Received: 09/20/00

CAS No.	Analyte	Concentration	C	Units	Q	M
	TSS	7.0		mg/L		G

Comments:

FORM I - WC

STL
Committed To Your Success

ORGANICS APPENDIX

U - Indicates that the compound was analyzed for but not detected.

J - Indicates that the compound was analyzed for and determined to be present in the sample. The mass spectrum of the compound meets the identification criteria of the method. The concentration listed is an estimated value, which is less than the specified minimum detection limit but is greater than zero.

B - This flag is used when the analyte is found in the blanks as well as the sample. It indicates possible sample contamination and warns the data user to use caution when applying the results of this analyte.

N - Indicates that the compound was analyzed for but not requested as an analyte. Value will not be listed on tabular result sheet.

S - Estimated due to surrogate outliers.

X - Matrix spike compound.

(1) - Cannot be separated.

(2) - Decomposes to azobenzene. Measured and calibrated as azobenzene.

A - This flag indicates that a TIC is a suspected aldol condensation product.

E - Indicates that it exceeds calibration curve range.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor.

C - Confirmed by GC/MS.

T - Compound present in TCLP blank.

P - This flag is used for a pesticide/aroclor target analyte when there is a greater than 25 percent difference for detected concentrations between the two GC columns (see Form X).

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INORGANICS APPENDIX

C - Concentration qualifiers

U - Indicates analyte was not detected at method reporting limit.

B - Indicates analyte result between IDL and contract required detection limit (CRDL)

Q - QC qualifiers

E - Reported value is estimated because of the presence of interference

M - Duplicate injection precision not met

N - Spiked sample recovery not within control limits

S - The reported value was determined by the method of standard additions (MSA)

W - Post-digest spike recovery furnace analysis was out of 85-115 percent control limit, while sample absorbance was less than 50 percent of spike absorbance

* - Duplicate analysis not within control limit

+ - Correlation coefficient for MSA is less than 0.995

M - Method codes

P - ICP

A - Flame AA

F - Furnace AA

CV - Cold vapor AA (manual)

C - Cyanide

NR - Not Required

NC - Not Calculated as per protocols

STATE CERTIFICATIONS

In some instances it may be necessary for environmental data to be reported to a regulatory authority with reference to a certified laboratory. For your convenience, the laboratory identification numbers for the STL-Connecticut laboratory are provided in the following table. Many states certify laboratories for specific parameters or tests within a category (i.e. method 325.2 for wastewater). The information in the following table indicates the lab is certified in a general category of testing such as drinking water or wastewater analysis. The laboratory should be contacted directly if parameter-specific certification information is required.

STL-Connecticut
Certification Summary (as of April 2000)

State	Responsible Agency	Certification Areas	Lab Number
Connecticut	Department of Health Services	Drinking Water, Wastewater	PH-0497
Maine	Department of Health and Environmental Services	Drinking Water, Wastewater/Solid, Hazardous Waste	CT023
Massachusetts	Department of Environmental Protection	Potable/Non-Potable Water	CT023
New Hampshire	Department of Environmental Services	Drinking Water, Wastewater	2528
New Jersey	Department of Environmental Protection	Drinking Water, Wastewater	46410
New York	Department of Health	CLP, Drinking Water, Wastewater, Solid/ Hazardous Waste	10602
North Carolina	Division of Environmental Management	Wastewater	388
Rhode Island	Department of Health	Chemistry...Non-Potable Water and Wastewater	A43
Washington	Department of Ecology	Wastewater/Hazardous Waste	C231
Wisconsin	Department of Natural Resources	Wastewater	998355710

7000-2293A
ROUX ASSOCIATES-MA
SAMPLE SUMMARY

CLIENT ID	LAB ID	MATRIX	DATE COLLECTED	DATE RECEIVED
SW-09	002293A-01	WATER	09/18/00	09/20/00
SW-09	002293A-01D	WATER	09/18/00	09/20/00
SW-09	002293A-01MS	WATER	09/18/00	09/20/00
SW-09	002293A-01MSD	WATER	09/18/00	09/20/00
SW-09	002293A-01S	WATER	09/18/00	09/20/00
FB	002293A-02	WATER	09/18/00	09/20/00

STL CT ANALYTICAL SUMMARY

Client ID: FB, SW-09
Job Number: 7000-2293A

Date: 10/25/100

Qty	Matrix	Analysis	Description
1	None	DISK	Diskette Prep.
4	WATER	AS-SW846-D	Arsenic (Dissolved)
4	WATER	BNA-8270C-TCL	TCL Semi-Volatile Or
4	WATER	MET-PREP-ICAP-D	Metals ICAP Prep (Di
4	WATER	MET-SW846-TAL	TAL Metals
2	WATER	TSS-160.2	Total Suspended Soli

ROUX CHAIN OF CUSTODY

№ 04798 Y

ROUX ASSOCIATES, INC.
Environmental Consulting & Management
1377 MOTOR PARKWAY
ISLANDIA, NEW YORK 11788
(516) 232-2600 FAX (516) 232-9898

PROJECT NAME: ISRT
PROJECT NUMBER: 06626M
PROJECT LOCATION: Woburn, MA 7000-~~2098A~~ 2293A
PROJECT MANAGER: Larry McTiernan
SAMPLER(S): Chris Milone

ANALYSES

SAMPLE DESIGNATION / LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	TSS	Dissolved Arsenic ~~Metals~~	Total-Arsenic Chromium, Lead, Mercury	TAL Metals	PAH, Diethylphtalate, 4-Methylphenol, Bis-2-Ethylhexylpthlate, cyclohexanone	TCL SVOCs + cyclohexanone	TOTAL BOTTLES	NOTES
SW-09	9-18-00	1655	01	3	3		3		6	15	
Field Blank	9-18-00	1715	02		1		1		2	4	

"PASSED RAD SCREEN"

6°

RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N	RECEIVED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N
[signature]	ROUX	9/18/00	1810		[signature]	STL	9/18/00	1810	
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N	RECEIVED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N
					[signature] 9/20/00	9:30	STL-CT		
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N	RECEIVED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N

DELIVERY METHOD

ANALYTICAL LABORATORY

COMMENTS
Level — Deliverables for Tier II Data Validation

CHAINOF CDR 12AUG98

FedEx

FedEx Tracking Number 818837632174

Form I.D. No. 0200

1 From

Date 9/19/00 [redacted]

Sender's Name Sample Receiving Phone 978 667-1400

Company STL Billerica

Address 149 Rangeway Road

Dept./Floor/Suite/Room

City N. Billerica State MA ZIP 01862

2 Your Internal Billing Reference

3 To

Recipient's Name Sample Receiving Phone 203 929 8140

Company STL Connecticut

Address 127 Long Hill Cross Road

We cannot deliver to P.O. boxes or P.O. ZIP codes

Dept./Floor/Suite/Room

To "HOLD" at FedEx location, print FedEx address here

City Shelton State CT ZIP 06484

818837632174

4a Express Package Service

Packages up to 150 lbs. Delivery commitment may be later in some areas

- [X] FedEx Priority Overnight — Next business morning
- [ ] FedEx Standard Overnight — Next business afternoon
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations
- [ ] FedEx 2Day* — Second business day
- [ ] FedEx Express Saver* — Third business day

* FedEx Letter Rate not available. Minimum charge: One pound rate

4b Express Freight Service

Packages over 150 lbs. Delivery commitment may be later in some areas

- [ ] FedEx 1Day Freight* — Next business day
- [ ] FedEx 2Day Freight — Second business day
- [ ] FedEx 3Day Freight — Third business day

* Call for Confirmation

5 Packaging

- [ ] FedEx Letter*
- [ ] FedEx Pak*
- [X] Other Pkg. — Includes FedEx Box, FedEx Tube, and customer pkg.

* Declared value limit $500

6 Special Handling

- [ ] Saturday Delivery — Available for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- [ ] Sunday Delivery — Available for FedEx Priority Overnight to select ZIP codes
- [ ] HOLD Weekday at FedEx Location — Not available with FedEx First Overnight
- [ ] HOLD Saturday at FedEx Location — Available for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods? One box must be checked

- [X] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Yes — Shipper's Declaration not required
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ kg

Dangerous Goods cannot be shipped in FedEx packaging

- [ ] Cargo Aircraft Only

7 Payment Bill to: Enter FedEx Acct. No. or Credit Card No. below

- [ ] Sender — Acct. No. in Section 1 will be billed
- [X] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Obtain Recip. Acct. No.
- [ ] Cash/Check

[redacted]

Total Packages	Total Weight	Total Declared Value†	Total Charges
1	42 lbs	$ .00	

†Our liability is limited to $100 unless you declare a higher value. See back for details.

Credit Card Auth.

8 Release Signature Sign to authorize delivery without obtaining signature

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

Questions? Call 1·800·Go·FedEx (1800-463-3339)

Visit our Web site at www.fedex.com

Rev. Date 11/98 • Part #154815 • ©1994-98 FedEx • PRINTED IN U.S.A. GBFE 11/98

360

FedEx Tracking Number 818837632200

Form I.D. No. 0200

1 From

Date 9/19/00 [redacted]

Sender's Name Sample Receiving Phone 978 667-1400

Company STL Billerica

Address 149 Rangeway Road

Dept./Floor/Suite/Room

City N Billerica State MA ZIP 01862

2 Your Internal Billing Reference

3 To

Recipient's Name Sample Receiving Phone 203 429-8140

Company STL Connecticut

Address 128 Long Hill Cross Road

We cannot deliver to PO boxes or PO ZIP codes

Dept./Floor/Suite/Room

To "HOLD" at FedEx location, enter FedEx address here

City Shelton State CT ZIP 06484

818837632200

4a Express Package Service

Packages up to 150 lbs. Delivery commitment may be later in some areas

- [x] FedEx Priority Overnight — Next business morning
- [ ] FedEx Standard Overnight — Next business afternoon
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations
- [ ] FedEx 2Day* — Second business day
- [ ] FedEx Express Saver* — Third business day

* FedEx Letter Rate not available. Minimum charge: One pound rate

4b Express Freight Service

Packages over 150 lbs. Delivery commitment may be later in some areas

- [ ] FedEx 1Day Freight* — Next business day
- [ ] FedEx 2Day Freight — Second business day
- [ ] FedEx 3Day Freight — Third business day

* Call for Confirmation

5 Packaging

- [ ] FedEx Letter*
- [ ] FedEx Pak*
- [x] Other Pkg — Includes FedEx Box, FedEx Tube and customer pkg

* Declared value limit $500

6 Special Handling

- [ ] Saturday Delivery — Available for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- [ ] Sunday Delivery — Available for FedEx Priority Overnight to select ZIP codes
- [ ] HOLD Weekday at FedEx Location — Not available with FedEx First Overnight
- [ ] HOLD Saturday at FedEx Location — Available for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods? (One box must be checked)

- [x] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Yes — Shipper's Declaration not required
- [ ] Dry Ice — Dry Ice, UN 1845 ____ kg

Dangerous Goods cannot be shipped in FedEx packaging

- [ ] Cargo Aircraft Only

7 Payment Bill to: Enter FedEx Acct. No. or Credit Card No. below

- [ ] Sender — Acct. No. in Section 1 will be billed
- [x] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check
- [ ] Obtain Recipt. Acct. No.

[redacted]

Total Packages	Total Weight	Total Declared Value†	Total Charges
1	65	$ .00	

†Our liability is limited to $100 unless you declare a higher value. See back for details

Credit Card Auth

8 Release Signature Sign to authorize delivery without obtaining signature.

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

Questions? Call 1·800·Go·FedEx® (800-463-3339)

Visit our Web site at www.fedex.com

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960

FedEx FedEx Tracking Number 818837632185 Form I.D. No. 0200

1 From
Date 9/19/00 [redacted]
Sender's Name Sample Receiving Phone 978 667-1400
Company STL Billerica
Address 149 Rangeway Road Dept./Floor/Suite/Room
City N. Billerica State MA ZIP 01862

2 Your Internal Billing Reference

3 To
Recipient's Name Sample Receiving Phone 203 929 8140
Company STL Connecticut
Address 122 Long Hill Cross Road Dept./Floor/Suite/Room
We cannot deliver to P.O. boxes or P.O. ZIP codes
To "HOLD" at FedEx location, print FedEx address here
City Shelton State CT ZIP 06484

8188 3763 2185

4a Express Package Service — *Packages up to 150 lbs.* Delivery commitment may be later in some areas.
- [X] FedEx Priority Overnight — Next business morning
- [ ] FedEx Standard Overnight — Next business afternoon
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations
- [ ] FedEx 2Day* — Second business day
- [ ] FedEx Express Saver* — Third business day

* FedEx Letter Rate not available. Minimum charge: One pound rate.

4b Express Freight Service — *Packages over 150 lbs.* Delivery commitment may be later in some areas.
- [ ] FedEx 1Day Freight* — Next business day
- [ ] FedEx 2Day Freight — Second business day
- [ ] FedEx 3Day Freight* — Third business day

* Call for Confirmation

5 Packaging — * Declared value limit $500
- [ ] FedEx Letter*
- [ ] FedEx Pak*
- [X] Other Pkg. — Includes FedEx Box, FedEx Tube, and customer pkg.

6 Special Handling
- [ ] **Saturday Delivery** — Available for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- [ ] **Sunday Delivery** — Available for FedEx Priority Overnight to select ZIP codes
- [ ] **HOLD Weekday at FedEx Location** — Not available with FedEx First Overnight
- [ ] **HOLD Saturday at FedEx Location** — Available for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods? One box must be checked
- [X] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Yes — Shipper's Declaration not required
- [ ] Dry Ice — Dry Ice, UN 1845 ____ x ____ kg

Dangerous Goods cannot be shipped in FedEx packaging.
- [ ] Cargo Aircraft Only

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below
- [ ] Sender — Acct. No. in Section 1 will be billed
- [X] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check
- [ ] Obtain Recip. Acct. No.

[redacted]

Total Packages	Total Weight	Total Declared Value†	Total Charges
1	59 lbs	$	

Credit Card Auth.

†Our liability is limited to $100 unless you declare a higher value. See back for details.

8 Release Signature Sign to authorize delivery without obtaining signature.

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

Questions? Call 1·800·Go·FedEx (800-463-3339)
Visit our Web site at www.fedex.com

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360

FedEx

FedEx Tracking Number 818837632211

Form I.D. No. 0200

1 From

Date 9/19/00

Sender's Name Sample Receiving Phone 978 667-1400

Company STL Billerica

Address 149 Rangeway Road

Dept./Floor/Suite/Room

City N. Billerica State MA ZIP 01862

2 Your Internal Billing Reference

3 To

Recipient's Name Sample Receiving Phone 203 929-8140

Company STL Connecticut

Address 128 Long Hill Cross Road

We cannot deliver to PO boxes or PO ZIP codes

Dept./Floor/Suite/Room

To "HOLD" at FedEx location, print FedEx address here

City Shelton State CT ZIP 06484

818837632211

4a Express Package Service

Packages up to 150 lbs.

Delivery commitment may be later in some areas

- [X] FedEx Priority Overnight — Next business morning
- [ ] FedEx Standard Overnight — Next business afternoon
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations
- [ ] FedEx 2Day* — Second business day
- [ ] FedEx Express Saver* — Third business day

* FedEx Letter Rate not available. Minimum charge: One-pound rate

4b Express Freight Service

Packages over 150 lbs.

Delivery commitment may be later in some areas

- [ ] FedEx 1Day Freight* — Next business day
- [ ] FedEx 2Day Freight — Second business day
- [ ] FedEx 3Day Freight — Third business day

* Call for Confirmation:

5 Packaging

- [ ] FedEx Letter*
- [ ] FedEx Pak*
- [X] Other Pkg. — Includes FedEx Box, FedEx Tube, and customer pkg.

* Declared value limit $500

6 Special Handling

- [ ] Saturday Delivery — Available for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- [ ] Sunday Delivery — Available for FedEx Priority Overnight to select ZIP codes
- [ ] HOLD Weekday at FedEx Location — Not available with FedEx First Overnight
- [ ] HOLD Saturday at FedEx Location — Available for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods?

One box must be checked

- [X] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Yes — Shipper's Declaration not required
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous Goods cannot be shipped in FedEx packaging

- [ ] Cargo Aircraft Only

7 Payment Bill to: Enter FedEx Acct. No. or Credit Card No. below

- [ ] Sender — Acct. No. in Section 1 will be billed
- [X] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check
- [ ] Obtain Recip. Acct. No.

Total Packages	Total Weight	Total Declared Value†	Total Charges
1	60	$ .00	Credit Card Auth.

†Our liability is limited to $100 unless you declare a higher value. See back for details

8 Release Signature Sign to authorize delivery without obtaining signature

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

Questions? Call 1·800·Go·FedEx® (800-463-3339)

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360

Severn Tr · Connecticut
Internal Chain-of-Custody

Client: Roux

STL Job #: 7000-2293A

Custody Seal: present / absent
Tamper Evident /Non Tamper Evident
intact / not intact

Airbill# _____

Field C-O-C: present / absent

Relogged from 7000-2098A -11 + -12

Date Received: 9/20/00

Sample #s: 01-02

Locations: 90

Laboratory Sample #	Relinquished by	Accepted by	Date	Time	Reason	Relinquished by	Accepted by	Date	Time
1A,B,C 2A	[illegible]	[illegible]	10/12/00	9.50	BNA	[illegible]			→
1	ML	[illegible]	10/11	[illegible]	TSS	[illegible]	ML	10/11	16[illegible]
1 - 2	ML	GB	10/16	1050	H8	GB	ML	10/16	1430

STL Form# SMF00504.CT

Severn T · Connecticut
Internal Chain-of-Custody

Client: ROUX

STL Job #: 7000-~~2098A~~ 2293A

Custody Seal: present / absent
Tamper Evident / Non Tamper Evident
intact / not intact

Airbill# FE

Field C-O-C: present / absent

Date Received: 9-20-00

Sample #s: ~~01-12~~ 01-02

Locations: 90

Laboratory Sample #	Relinquished by	Accepted by	Date	Time	Reason	Relinquished by	Accepted by	Date	Time
1-11	ML	SJ	9/26	18-	TSS	SJ	ML	9/26	23[illegible]
01-10(A	ML	SBW	09/27/00	10:10	BNA	used			
1-10	ML	GB	9/27	1710	HS	GB	ML	9/29	1630

STL Form# SMF00504.CT

STL GC-GC/MS Extract Chain of Custody

Fraction: (BNA) Pesticide-PCB / Herbicide / O/P Pesticide / DRO / Other (Circle one)

CLIENT: Rollx

JOB NO: 2293A

SAMPLE IN (Extractions)					SAMPLE IN (Extractions)				
Sample(s)	Date	Time	Sign.	Location	Sample(s)	Date	Time	Sign.	Location
01,02 UGC	10/17/00	19:00	SBW	29					

SAMPLE OUT					SAMPLE IN			
Sample(s)	Date	Time	Code	Sign.	Date	Time	Location	Sign.
01-02 OIQC	10/17/00	1100	AN	EM	10/17/00	1230	29	EM

Codes: SC = Screening AN = Analysis

Verified By: [illegible] Date: 10/20/00

Lab Form: SMF01201.CT

Severn Trent Laboratories
128 Long Hill Cross
Shelton, CT 06484
Tel (203) 929-8140
Fax (203)

Committed To *Your* Success

CHAIN OF CUSTODY
ATOMIC SPECTROSCOPY DEPARTMENT

Job Number 7000-2293A Sample Numbers 1-2 (T&F)

WATER - SOIL - SLUDGE - EPTOX/TCLP

I confirm that I have performed the preparation below following SOP guidelines and authorize the release of this preparation:

Sample Prep			
	Darlyn Colon	10/17/00	ICP/FLME
			FURN
			MERCURY
	Chemist	Date(s)	

I confirm that I have performed the analysis below following SOP guidelines and authorize the release of all associated data:

Analysis			
	Nestor Petrovitch	10/19/00	ICP
			FLAME
			FURN
			MERCURY
	Chemist	Date(s)	

I have reviewed and authorize the release of this job:

Complete [signature] 10/20/00
Supervisor Date

Batch Assignment _____

Other Laboratory Locations:
- 149 Rangeway Road, North Billerica MA 01862
- 16203 Park Row, Suite 110, Houston TX 77084
- 120 Southcenter Court, Suite 300, Morrisville NC 27560
- 315 Fullerton Avenue, Newburgh NY 12550
- 11 East Olive Road, Pensacola FL 32514
- Westfield Executive Park, 53 Southampton Road, Westfield MA 01085
- 628 Route 10, Whippany NJ 07981

a part of Severn Trent Services Inc

Severn Trent Laboratori
128 Long Hill Cross
Shelton, CT 06484
Tel (203) 929-8140
Fax (203)

Committed To *Your* Success

CHAIN OF CUSTODY
ATOMIC SPECTROSCOPY DEPARTMENT

Job Number 0022934 Sample Numbers 01—02

WATER - SOIL - SLUDGE - EPTOX/TCLP

I confirm that I have performed the preparation below following SOP guidelines and authorize the release of this preparation:

Sample Prep _____ _____

_____ _____ ICP/FLME

_____ _____ FURN

Gerdi Bao 10-16-00 MERCURY

Chemist Date(s)

I confirm that I have performed the analysis below following SOP guidelines and authorize the release of all associated data:

Analysis _____ _____ ICP

_____ _____ FLAME

_____ _____ FURN

Gerdi Bao 10-16-00 MERCURY

Chemist Date(s)

I have reviewed and authorize the release of this job:

Complete _____ 10/20/00

Supervisor Date

Batch Assignment _____

IEA / CT
LABORATORY CHRONICLE

SAMPLE PREPARATION AND ANALYSIS SUMMARY
INORGANIC ANALYSIS

JOB #: 7000-2293A

SAMPLE ID	MATRIX	LIST REQUESTED	DATE RECEIVED	DATE DIGESTED	DATE ANALYZED
SW-09	WATER	AS-SW846-D	09/20/00	10/17/00	10/18/00
SW-09	WATER	MET-SW846-TAL	09/20/00		
FB	WATER	AS-SW846-D	09/20/00		
FB	WATER	MET-SW846-TAL	09/20/00		

Section Supervisor (signature) [illegible]

Review & Approval (printed name) A. Wolfl

(Date) 10/20/00

QC Supervisor (signature) _____

Review & Approval (printed name) _____

(Date) __/__/__

2C
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2293A SAS No.: _____ SDG No.: A2293

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 (PHL)#	S5 (2FP)#	S6 (TBP)#	S7 (2CP)#	S8 (DCB)#	TOT OUT
01	SBLK02	75	68	61	38	46	65			0
02	SBLK02FMS	84	85	78	40	56	75			0
03	SW-09	79	73	76	38	48	73			0
04	SW-09MS	79	74	73	39	53	75			0
05	SW-09MSD	85	78	74	40	55	79			0
06	FB	81	73	70	38	49	61			0
07										
08										
09										
10										
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28										
29										
30										

QC LIMITS

S1 (NBZ) = Nitrobenzene-d5 (35-114)
S2 (FBP) = 2-Fluorobiphenyl (43-116)
S3 (TPH) = Terphenyl-d14 (33-141)
S4 (PHL) = Phenol-d5 (10-110)
S5 (2FP) = 2-Fluorophenol (21-110)
S6 (TBP) = 2,4,6-Tribromophenol (10-123)
S7 (2CP) = 2-Chlorophenol-d4 (-) (advisory)
S8 (DCB) = 1,2-Dichlorobenzene-d4 (-) (advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FORM II SV-1

3C

WATER SEMIVOLATILE SPIKE/SPIKE DUPLICATE RECOVERY SUMMARY

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2293A SAS No.: _____ SDG No.: A2293

Matrix Spike - EPA Sample No.: SBLK02

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	SPIKE CONCENTRATION (ug/L)	SPIKE % REC #	QC. LIMITS REC.
Phenol	40	0	20	50	24-57
bis(2-Chloroethyl)ether	40	0	35	88	49-133
2-Chlorophenol	40	0	37	92	60-112
1,3-Dichlorobenzene	40	0	32	80	18-143
1,4-Dichlorobenzene	40	0	33	82	21-138
Benzyl alcohol	40	0	41	102	39-117
1,2-Dichlorobenzene	40	0	35	88	21-143
2-Methylphenol	40	0	35	88	49-91
bis(2-Chloroisopropyl)ether	40	0	36	90	54-130
4-Methylphenol	40	0	36	90	48-95
N-Nitroso-di-n-propylamine	40	0	36	90	46-129
Hexachloroethane	40	0	32	80	8-144
Nitrobenzene	40	0	36	90	46-141
Isophorone	40	0	39	98	52-140
2-Nitrophenol	40	0	37	92	69-123
2,4-Dimethylphenol	40	0	29	72	62-121
Benzoic acid	120	0	8	7	0-25
bis(2-Chloroethoxy)methane	40	0	37	92	53-142
2,4-Dichlorophenol	40	0	39	98	66-122
1,2,4-Trichlorobenzene	40	0	34	85	30-142
Naphthalene	40	0	34	85	43-144
4-Chloroaniline	40	0	34	85	48-150
Hexachlorobutadiene	40	0	34	85	5-169
4-Chloro-3-methylphenol	40	0	39	98	63-119
2-Methylnaphthalene	40	0	34	85	37-137
Hexachlorocyclopentadiene	40	0	25	62	1-139
2,4,6-Trichlorophenol	40	0	39	98	70-121
2,4,5-Trichlorophenol	40	0	38	95	71-124
2-Chloronaphthalene	40	0	46	115	52-163
2-Nitroaniline	40	0	40	100	60-139

Column to be used to flag recovery with an asterisk

* Values outside of QC limits.

Spike Recovery: 0 1 out of 65 outside limits

COMMENTS: [illegible] 10/20/00

FORM III SV-1

3C
WATER SEMIVOLATILE SPIKE/SPIKE DUPLICATE RECOVERY SUMMARY

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2293A SAS No.: _____ SDG No.: A2293

Matrix Spike - EPA Sample No.: SBLK02

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	SPIKE CONCENTRATION (ug/L)	SPIKE % REC #	QC. LIMITS REC.
Dimethylphthalate	40	0	40	100	64-137
Acenaphthylene	40	0	34	85	52-132
2,6-Dinitrotoluene	40	0	40	100	60-142
3-Nitroaniline	40	0	40	100	65-162
Acenaphthene	40	0	36	90	56-144
2,4-Dinitrophenol	40	0	28	70	70-139
4-Nitrophenol	40	0	24	60	21-65
Dibenzofuran	40	0	39	98	57-136
2,4-Dinitrotoluene	40	0	40	100	57-131
Diethylphthalate	40	0	39	98	62-132
4-Chlorophenyl-phenylether	40	0	34	85	55-136
Fluorene	40	0	36	90	59-131
4-Nitroaniline	40	0	42	105	67-155
4,6-Dinitro-2-methylphenol	40	0	39	98	77-164
N-Nitrosodiphenylamine (1)	40	0	36	90	67-149
4-Bromophenyl-phenylether	40	0	34	85	57-150
Hexachlorobenzene	40	0	37	92	53-153
Pentachlorophenol	40	0	0	0*	63-125
Phenanthrene	40	0	37	92	83-124
Anthracene	40	0	36	90	66-138
Di-n-butylphthalate	40	0	38	95	65-146
Fluoranthene	40	0	36	90	63-145
Pyrene	40	0	41	102	66-152
Butylbenzylphthalate	40	0	41	102	64-158
3,3'-Dichlorobenzidine	40	0	33	82	69-159
Benzo(a)anthracene	40	0	36	90	62-151
Chrysene	40	0	30	75	72-141
bis(2-Ethylhexyl)phthalate	40	0	34	85	63-148
Di-n-octylphthalate	40	0	40	100	65-154
Benzo(b)fluoranthene	40	0	36	90	42-172

Column to be used to flag recovery with an asterisk

* Values outside of QC limits.

Spike Recovery: 01 out of 65 outside limits

COMMENTS: NR 10/20/00

FORM III SV-1

3C

WATER SEMIVOLATILE SPIKE/SPIKE DUPLICATE RECOVERY SUMMARY

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2293A SAS No.: _____ SDG No.: A2293

Matrix Spike - EPA Sample No.: SBLK02

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	SPIKE CONCENTRATION (ug/L)	SPIKE % REC #	QC. LIMITS REC.
Benzo(k)fluoranthene	40	0	34	85	55-150
Benzo(a)pyrene	40	0	36	90	68-147
Indeno(1,2,3-cd)pyrene	40	0	39	98	52-157
Dibenzo(a,h)anthracene	40	0	38	95	25-159
Benzo(g,h,i)perylene	40	0	42	105	56-166
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					-
					-
					-

Column to be used to flag recovery with an asterisk

* Values outside of QC limits.

Spike Recovery: 01 out of 65 outside limits

COMMENTS: AHC 10/20/00

FORM III SV-1

3C
WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2293A SAS No.: _____ SDG No.: A2293

Matrix Spike - EPA Sample No.: SW-09

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
Phenol	100	0	41	41	12-110
2-Chlorophenol	100	0	77	77	27-123
1,4-Dichlorobenzene	53	0	41	77	36- 97
N-Nitroso-di-n-prop.(1)	53	0	41	77	41-116
1,2,4-Trichlorobenzene	53	0	44	83	39- 98
4-Chloro-3-methylphenol	100	0	86	86	23- 97
Acenaphthene	53	0	39	74	46-118
4-Nitrophenol	100	0	51	51	10- 80
2,4-Dinitrotoluene	53	0	47	89	24- 96
Pentachlorophenol	100	0	83	83	9-103
Pyrene	53	0	45	85	26-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	100	40	40	2	42	12-110
2-Chlorophenol	100	78	78	1	40	27-123
1,4-Dichlorobenzene	50	42	84	9	28	36- 97
N-Nitroso-di-n-prop.(1)	50	42	84	9	38	41-116
1,2,4-Trichlorobenzene	50	45	90	8	28	39- 98
4-Chloro-3-methylphenol	100	87	87	1	42	23- 97
Acenaphthene	50	40	80	8	31	46-118
4-Nitrophenol	100	49	49	4	50	10- 80
2,4-Dinitrotoluene	50	48	96	8	38	24- 96
Pentachlorophenol	100	87	87	5	50	9-103
Pyrene	50	43	86	1	31	26-127

(1) N-Nitroso-di-n-propylamine

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

RPD: 0 out of 11 outside limits
Spike Recovery: 0 out of 22 outside limits

COMMENTS: _____

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLKO2

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2293A SAS No.: _____ SDG No.: A2293

Lab File ID: >S1198 Lab Sample ID: SBLKO2

Instrument ID: HP5972S Date Extracted:10/12/00

Matrix: (soil/water) WATER Date Analyzed: 10/13/00

Level:(low/med) LOW Time Analyzed:1424

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SBLKO2FMS	SBLKO2FMS	>S1199	10/13/00
02	SW-09	002293A-01	>S1241	10/17/00
03	SW-09MS	002293A-01MS	>S1242	10/17/00
04	SW-09MSD	002293A-01MSD	>S1243	10/17/00
05	FB	002293A-02	>S1244	10/17/00
06				
07				
08				
09				
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11				
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COMMENTS: _____

FORM IV SV

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2293A SAS No.: _____ SDG No.: A2293

Lab File ID: S1142 DFTPP Injection Date:10/10/00

Instrument ID: HP5972S DFTPP Injection Time:1056

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	44.5
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	58.9
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	44.4
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	6.7
275	10.0 - 30.0% of mass 198	22.6
365	Greater than 1.0% of mass 198	2.67
441	Present, but less than mass 443	12.3
442	40.0 - 100.0% of mass 198	76.7
443	17.0 - 23.0% of mass 442	14.6 (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	SSTD020V7	SSTD020V7	>S1143	10/10/00	1137
02	SSTD050V8	SSTD050V8	>S1144	10/10/00	1219
03	SSTD080V9	SSTD080V9	>S1145	10/10/00	1301
04	SSTD120W1	SSTD120W1	>S1146	10/10/00	1344
05	SSTD160W2	SSTD160W2	>S1147	10/10/00	1425
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FORM V SV

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2293A SAS No.: _____ SDG No.: A2293

Lab File ID: S1192 DFTPP Injection Date:10/13/00

Instrument ID: HP5972S DFTPP Injection Time:1014

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	50.9
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	64.5
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	47.0
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	6.8
275	10.0 - 30.0% of mass 198	21.4
365	Greater than 1.0% of mass 198	1.96
441	Present, but less than mass 443	10.1
442	40.0 - 100.0% of mass 198	63.0
443	17.0 - 23.0% of mass 442	12.3 (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	SSTD050W9	SSTD050W9	>S1192	10/13/00	1014
02	SBLKO2	SBLKO2	>S1198	10/13/00	1424
03	SBLKO2FMS	SBLKO2FMS	>S1199	10/13/00	1505
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FORM V SV

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2293A SAS No.: _____ SDG No.: A2293

Lab File ID: S1228 DFTPP Injection Date:10/17/00

Instrument ID: HP5972S DFTPP Injection Time:1029

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	47.7
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	45.9
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	6.9
275	10.0 - 30.0% of mass 198	22.7
365	Greater than 1.0% of mass 198	2.59
441	Present, but less than mass 443	12.0
442	40.0 - 100.0% of mass 198	73.8
443	17.0 - 23.0% of mass 442	14.5 (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	SSTD050X4	SSTD050X4	>S1228	10/17/00	1029
02	SW-09	002293A-01	>S1241	10/17/00	1924
03	SW-09MS	002293A-01MS	>S1242	10/17/00	2005
04	SW-09MSD	002293A-01MSD	>S1243	10/17/00	2047
05	FB	002293A-02	>S1244	10/17/00	2128
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FORM V SV

6B
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2293A SAS No.: _____ SDG No.: A2293

Instrument ID: HP5972S Calibration Date(s):10/10/00 _____

Calibration Times: 1137 1425

LAB FILE ID: RRF20 = >S1143 RRF50 = >S1144
RRF80 = >S1145 RRF120= >S1146 RRF160= >S1147

COMPOUND		RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD	
Phenol	*	1.899	1.702	1.545	1.393	1.325	1.573	14.8	*
bis(2-Chloroethyl)ether	*	1.226	1.144	1.070	0.998	0.972	1.082	9.7	*
2-Chlorophenol	*	1.459	1.359	1.263	1.168	1.099	1.270	11.4	*
1,3-Dichlorobenzene	*	1.594	1.446	1.348	1.237	1.152	1.355	12.8	*
1,4-Dichlorobenzene	*	1.615	1.470	1.358	1.245	1.146	1.367	13.5	*
Benzyl alcohol	*	0.638	0.640	0.580	0.539	0.498	0.579	10.7	*
1,2-Dichlorobenzene	*	1.502	1.352	1.212	1.072	0.974	1.222	17.3	*
2-Methylphenol	*	1.184	1.057	0.946	0.849	0.813	0.970	15.7	*
2,2'-oxybis(1-Chloropropane)	*	2.558	2.233	2.007	1.794	1.698	2.058	16.9	*
4-Methylphenol	*	1.292	1.117	1.018	0.922	0.863	1.042	16.3	*
N-Nitroso-di-n-propylamine	*	1.064	0.966	0.892	0.841	0.809	0.914	11.2	*
Hexachloroethane	*	0.651	0.605	0.573	0.531	0.501	0.572	10.4	*
Nitrobenzene	*	0.454	0.429	0.392	0.378	0.362	0.403	9.4	*
Isophorone	*	0.783	0.728	0.672	0.660	0.658	0.700	7.8	*
2-Nitrophenol	*	0.241	0.232	0.217	0.211	0.207	0.222	6.5	*
2,4-Dimethylphenol	*	0.354	0.336	0.313	0.305	0.301	0.322	7.0	*
Benzoic acid	*	0.227	0.257	0.250	0.248	0.243	0.245	4.6	*
bis(2-Chloroethoxy)methane	*	0.505	0.474	0.437	0.426	0.411	0.451	8.5	*
2,4-Dichlorophenol	*	0.337	0.316	0.289	0.279	0.263	0.297	10.0	*
1,2,4-Trichlorobenzene	*	0.350	0.322	0.297	0.281	0.266	0.303	11.0	*
Naphthalene	*	1.081	0.963	0.858	0.800	0.751	0.891	14.9	*
4-Chloroaniline	*	0.463	0.425	0.385	0.366	0.351	0.398	11.5	*
Hexachlorobutadiene	*	0.189	0.170	0.155	0.147	0.135	0.159	13.2	*
4-Chloro-3-methylphenol	*	0.315	0.303	0.275	0.269	0.261	0.285	8.1	*
2-Methylnaphthalene	*	0.638	0.514	0.438	0.393	0.370	0.471	23.0	*
Hexachlorocyclopentadiene	*	0.208	0.297	0.318	0.336	0.324	0.297	17.3	*
2,4,6-Trichlorophenol	*	0.436	0.431	0.416	0.412	0.394	0.418	4.0	*
2,4,5-Trichlorophenol	*	0.504	0.474	0.458	0.436	0.405	0.455	8.2	*
2-Chloronaphthalene	*	1.358	1.244	1.128	1.041	0.948	1.144	14.2	*
2-Nitroaniline	*	0.470	0.474	0.455	0.450	0.445	0.459	2.8	*
Dimethylphthalate	*	1.566	1.501	1.417	1.362	1.312	1.432	7.2	*
Acenaphthylene	*	2.089	1.898	1.740	1.650	1.538	1.783	12.1	*
2,6-Dinitrotoluene	*	0.386	0.366	0.347	0.339	0.326	0.353	6.7	*
3-Nitroaniline	*	0.402	0.384	0.363	0.363	0.358	0.374	5.0	*
Acenaphthene	*	1.291	1.175	1.086	1.025	0.959	1.107	11.7	*
2,4-Dinitrophenol	*	0.180	0.230	0.241	0.251	0.254	0.231	13.0	*
4-Nitrophenol	*	0.178	0.181	0.174	0.166	0.167	0.173	3.8	*

* Compounds with required minimum RRF and maximum %RSD values.

6C
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2293A SAS No.: _____ SDG No.: A2293

Instrument ID: HP5972S Calibration Date(s):10/10/00 _____

Calibration Times: 1137 1425

LAB FILE ID: RRF20 = >S1143 RRF50 = >S1144
RRF80 = >S1145 RRF120= >S1146 RRF160= >S1147

COMPOUND		RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD	
Dibenzofuran	*	1.786	1.628	1.466	1.354	1.262	1.499	14.0	*
2,4-Dinitrotoluene	*	0.521	0.508	0.495	0.493	0.478	0.499	3.2	*
Diethylphthalate	*	1.584	1.471	1.410	1.340	1.263	1.414	8.7	*
4-Chlorophenyl-phenyl Ether	*	0.616	0.516	0.455	0.406	0.368	0.472	20.7	*
Fluorene	*	1.293	1.103	0.978	0.883	0.823	1.016	18.4	*
4-Nitroaniline	*	0.420	0.416	0.403	0.391	0.382	0.402	4.0	*
4,6-Dinitro-2-methylphenol	*	0.174	0.183	0.173	0.167	0.153	0.170	6.5	*
N-Nitrosodiphenylamine	*	0.641	0.578	0.520	0.467	0.424	0.526	16.4	*
4-Bromophenyl-phenylether	*	0.247	0.225	0.203	0.190	0.178	0.209	13.2	*
Hexachlorobenzene	*	0.293	0.265	0.236	0.217	0.201	0.242	15.3	*
Pentachlorophenol	*	0.129	0.145	0.140	0.141	0.138	0.139	4.3	*
Phenanthrene	*	1.166	1.022	0.918	0.844	0.789	0.948	15.8	*
Anthracene	*	1.212	1.057	0.925	0.857	0.816	0.973	16.6	*
Carbazole	*	1.098	0.987	0.878	0.820	0.772	0.911	14.5	*
Di-n-butylphthalate	*	1.584	1.400	1.228	1.131	1.059	1.280	16.6	*
Fluoranthene	*	1.096	0.957	0.831	0.750	0.704	0.868	18.4	*
Pyrene	*	1.430	1.363	1.283	1.244	1.204	1.305	7.0	*
Butylbenzylphthalate	*	0.829	0.778	0.742	0.698	0.662	0.742	8.8	*
3,3'-Dichlorobenzidine	*	0.432	0.369	0.332	0.304	0.281	0.344	17.2	*
Benzo(a)anthracene	*	1.144	1.024	0.919	0.848	0.798	0.947	14.7	*
Chrysene	*	1.066	0.943	0.852	0.807	0.771	0.888	13.4	*
bis(2-Ethylhexyl)phthalate	*	1.096	1.004	0.938	0.891	0.857	0.957	9.9	*
Di-n-octylphthalate	*	2.340	2.268	2.016	1.752	1.501	1.975	17.8	*
Benzo(b)fluoranthene	*	1.396	1.253	1.114	1.069	0.898	1.146	16.5	*
Benzo(k)fluoranthene	*	1.155	1.090	0.962	0.789	0.771	0.953	18.2	*
Benzo(a)pyrene	*	1.187	1.088	1.021	0.948	0.878	1.024	11.7	*
Indeno(1,2,3-cd)pyrene	*	1.164	1.231	1.346	1.434	1.420	1.319	9.0	*
Dibenz(a,h)anthracene	*	1.000	1.011	1.055	1.048	0.986	1.020	3.0	*
Benzo(g,h,i)perylene	*	1.006	1.145	1.373	1.535	1.565	1.325	18.4	*
Cyclohexanone		1.034	0.928	0.850	0.775	0.690	0.855	15.6	
Nitrobenzene-D5	*	0.438	0.416	0.392	0.381	0.369	0.399	7.0	*
2-Fluorobiphenyl	*	1.433	1.347	1.246	1.176	1.096	1.260	10.6	*
Terphenyl-D14	*	1.077	0.979	0.912	0.847	0.828	0.929	11.0	*
Phenol-D5	*	1.668	1.506	1.346	1.221	1.157	1.380	15.2	*
2-Fluorophenol	*	1.247	1.224	1.172	1.152	1.119	1.183	4.4	*
2,4,6-Tribromophenol	*	0.248	0.235	0.229	0.218	0.207	0.227	6.9	*

(1) Cannot be separated from Diphenylamine
* Compounds with required minimum RRF and maximum %RSD values.

7B
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2293A SAS No.: _____ SDG No.: A2293

Instrument ID: HP5972S Calibration Date: 10/13/00 Time: 1014

Lab File ID: >S1192 Init. Calib. Date(s): 10/10/00 _____

Init. Calib. Times: 1137 1425

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Phenol	1.573	1.640		4.3	20.0
bis(2-Chloroethyl)ether	1.082	1.095		1.2	
2-Chlorophenol	1.270	1.289		1.5	
1,3-Dichlorobenzene	1.355	1.411		4.1	
1,4-Dichlorobenzene	1.367	1.432		4.8	20.0
Benzyl alcohol	0.579	0.594		2.6	
1,2-Dichlorobenzene	1.222	1.304		6.7	
2-Methylphenol	0.970	0.945		-2.6	
2,2'-oxybis(1-Chloropropane)	2.058	2.118		2.9	
4-Methylphenol	1.042	0.976		-6.3	
N-Nitroso-di-n-propylamine	0.914	0.870	0.050	-4.8	
Hexachloroethane	0.572	0.588		2.8	
Nitrobenzene	0.403	0.410		1.7	
Isophorone	0.700	0.685		-2.1	
2-Nitrophenol	0.222	0.222		0.0	20.0
2,4-Dimethylphenol	0.322	0.257		-20.2	
Benzoic acid	0.245	0.249		1.6	
bis(2-Chloroethoxy)methane	0.451	0.445		-1.3	
2,4-Dichlorophenol	0.297	0.303		2.0	20.0
1,2,4-Trichlorobenzene	0.303	0.314		3.6	
Naphthalene	0.891	0.918		3.0	
4-Chloroaniline	0.398	0.371		-6.8	
Hexachlorobutadiene	0.159	0.167		5.0	20.0
4-Chloro-3-methylphenol	0.285	0.277		-2.8	20.0
2-Methylnaphthalene	0.471	0.474		0.6	
Hexachlorocyclopentadiene	0.297	0.306	0.050	3.0	
2,4,6-Trichlorophenol	0.418	0.411		-1.7	20.0
2,4,5-Trichlorophenol	0.455	0.461		1.3	
2-Chloronaphthalene	1.144	1.146		0.2	
2-Nitroaniline	0.459	0.441		-3.9	
Dimethylphthalate	1.432	1.416		-1.1	
Acenaphthylene	1.783	1.808		1.4	
2,6-Dinitrotoluene	0.353	0.356		0.8	
3-Nitroaniline	0.374	0.347		-7.2	
Acenaphthene	1.107	1.093		-1.3	20.0
2,4-Dinitrophenol	0.231	0.227	0.050	-1.7	
4-Nitrophenol	0.173	0.164	0.050	-5.2	

7C
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2293A SAS No.: _____ SDG No.: A2293

Instrument ID: HP5972S Calibration Date: 10/13/00 Time: 1014

Lab File ID: >S1192 Init. Calib. Date(s): 10/10/00 _____

Init. Calib. Times: 1137 1425

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Dibenzofuran	1.499	1.518		1.3	
2,4-Dinitrotoluene	0.499	0.487		-2.4	
Diethylphthalate	1.414	1.402		-0.8	
4-Chlorophenyl-Phenyl Ether	0.472	0.485		2.8	
Fluorene	1.016	1.020		0.4	
4-Nitroaniline	0.402	0.394		-2.0	
4,6-Dinitro-2-methylphenol	0.170	0.177		4.1	
N-Nitrosodiphenylamine	0.526	0.542		3.0	20.0
4-Bromophenyl-phenylether	0.209	0.215		2.9	
Hexachlorobenzene	0.242	0.251		3.7	
Pentachlorophenol	0.139	0.146		5.0	20.0
Phenanthrene	0.948	0.950		0.2	
Anthracene	0.973	0.965		-0.8	
Carbazole	0.911	0.919		0.9	
Di-n-butylphthalate	1.280	1.323		3.4	
Fluoranthene	0.868	0.881		1.5	20.0
Pyrene	1.305	1.267		-2.9	
Butylbenzylphthalate	0.742	0.707		-4.7	
3,3'-Dichlorobenzidine	0.344	0.335		-2.6	
Benzo(a)anthracene	0.947	0.913		-3.6	
Chrysene	0.888	0.786		-11.5	
bis(2-Ethylhexyl)phthalate	0.957	0.866		-9.5	
Di-n-octylphthalate	1.975	2.115		7.1	20.0
Benzo(b)fluoranthene	1.146	1.163		1.5	
Benzo(k)fluoranthene	0.953	0.987		3.6	
Benzo(a)pyrene	1.024	0.997		-2.6	20.0
Indeno(1,2,3-cd)pyrene	1.319	1.062		-19.5	
Dibenz(a,h)anthracene	1.020	0.885		-13.2	
Benzo(g,h,i)perylene	1.325	0.971		-26.7	
Cyclohexanone	0.855	0.860		0.6	
Nitrobenzene-D5	0.399	0.396		-0.8	
2-Fluorobiphenyl	1.260	1.283		1.8	
Terphenyl-D14	0.929	0.924		-0.5	
Phenol-D5	1.380	1.422		3.0	
2-Fluorophenol	1.183	1.223		3.4	
2,4,6-Tribromophenol	0.227	0.228		0.4	

(1) Cannot be separated from Diphenylamine

7B
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2293A SAS No.: _____ SDG No.: A2293

Instrument ID: HP5972S Calibration Date: 10/17/00 Time: 1029

Lab File ID: >S1228 Init. Calib. Date(s): 10/10/00 _____

Init. Calib. Times: 1137 1425

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Phenol	1.573	1.639		4.2	20.0
bis(2-Chloroethyl)ether	1.082	1.103		1.9	
2-Chlorophenol	1.270	1.316		3.6	
1,3-Dichlorobenzene	1.355	1.437		6.0	
1,4-Dichlorobenzene	1.367	1.443		5.6	20.0
Benzyl alcohol	0.579	0.678		17.1	
1,2-Dichlorobenzene	1.222	1.325		8.4	
2-Methylphenol	0.970	0.979		0.9	
2,2'-oxybis(1-Chloropropane)	2.058	2.146		4.3	
4-Methylphenol	1.042	1.050		0.8	
N-Nitroso-di-n-propylamine	0.914	0.912	0.050	-0.2	
Hexachloroethane	0.572	0.601		5.1	
Nitrobenzene	0.403	0.420		4.2	
Isophorone	0.700	0.710		1.4	
2-Nitrophenol	0.222	0.228		2.7	20.0
2,4-Dimethylphenol	0.322	0.270		-16.1	
Benzoic acid	0.245	0.270		10.2	
bis(2-Chloroethoxy)methane	0.451	0.462		2.4	
2,4-Dichlorophenol	0.297	0.312		5.0	20.0
1,2,4-Trichlorobenzene	0.303	0.319		5.3	
Naphthalene	0.891	0.932		4.6	
4-Chloroaniline	0.398	0.386		-3.0	
Hexachlorobutadiene	0.159	0.173		8.8	20.0
4-Chloro-3-methylphenol	0.285	0.291		2.1	20.0
2-Methylnaphthalene	0.471	0.494		4.9	
Hexachlorocyclopentadiene	0.297	0.316	0.050	6.4	
2,4,6-Trichlorophenol	0.418	0.440		5.3	20.0
2,4,5-Trichlorophenol	0.455	0.476		4.6	
2-Chloronaphthalene	1.144	1.154		0.9	
2-Nitroaniline	0.459	0.466		1.5	
Dimethylphthalate	1.432	1.466		2.4	
Acenaphthylene	1.783	1.921		7.7	
2,6-Dinitrotoluene	0.353	0.379		7.4	
3-Nitroaniline	0.374	0.360		-3.7	
Acenaphthene	1.107	1.150		3.9	20.0
2,4-Dinitrophenol	0.231	0.246	0.050	6.5	
4-Nitrophenol	0.173	0.182	0.050	5.2	

7C
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2293A SAS No.: _____ SDG No.: A2293

Instrument ID: HP5972S Calibration Date: 10/17/00 Time: 1029

Lab File ID: >S1228 Init. Calib. Date(s): 10/10/00 _____

Init. Calib. Times: 1137 1425

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Dibenzofuran	1.499	1.606		7.1	
2,4-Dinitrotoluene	0.499	0.506		1.4	
Diethylphthalate	1.414	1.470		4.0	
4-Chlorophenyl-Phenyl Ether	0.472	0.510		8.0	
Fluorene	1.016	1.073		5.6	
4-Nitroaniline	0.402	0.402		0.0	
4,6-Dinitro-2-methylphenol	0.170	0.184		8.2	
N-Nitrosodiphenylamine	0.526	0.572		8.7	20.0
4-Bromophenyl-phenylether	0.209	0.226		8.1	
Hexachlorobenzene	0.242	0.264		9.1	
Pentachlorophenol	0.139	0.156		12.2	20.0
Phenanthrene	0.948	0.992		4.6	
Anthracene	0.973	1.019		4.7	
Carbazole	0.911	0.939		3.1	
Di-n-butylphthalate	1.280	1.373		7.3	
Fluoranthene	0.868	0.898		3.5	20.0
Pyrene	1.305	1.364		4.5	
Butylbenzylphthalate	0.742	0.772		4.0	
3,3'-Dichlorobenzidine	0.344	0.339		-1.4	
Benzo(a)anthracene	0.947	0.936		-1.2	
Chrysene	0.888	0.911		2.6	
bis(2-Ethylhexyl)phthalate	0.957	1.027		7.3	
Di-n-octylphthalate	1.975	2.286		15.7	20.0
Benzo(b)fluoranthene	1.146	1.209		5.5	
Benzo(k)fluoranthene	0.953	1.076		12.9	
Benzo(a)pyrene	1.024	1.072		4.7	20.0
Indeno(1,2,3-cd)pyrene	1.319	1.248		-5.4	
Dibenz(a,h)anthracene	1.020	1.018		-0.2	
Benzo(g,h,i)perylene	1.325	1.182		-10.8	
Cyclohexanone	0.855	0.893		4.4	
Nitrobenzene-D5	0.399	0.407		2.0	
2-Fluorobiphenyl	1.260	1.335		6.0	
Terphenyl-D14	0.929	0.989		6.5	
Phenol-D5	1.380	1.505		9.1	
2-Fluorophenol	1.183	1.221		3.2	
2,4,6-Tribromophenol	0.227	0.249		9.7	

(1) Cannot be separated from Diphenylamine

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2293A SAS No.: _____ SDG No.: A2293

Lab File ID: (Standard): >S1192 Date Analyzed:10/13/00

Instrument ID: HP5972S Time Analyzed:1014

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	157286	9.04	538728	12.02	242493	15.96
	UPPER LIMIT	314572	9.54	1077456	12.52	484986	16.46
	LOWER LIMIT	78643	8.54	269364	11.52	121246	15.46
	EPA SAMPLE NO.						
01	SBLKO2	150032	9.05	531537	12.02	277317	15.97
02	SBLKO2FMS	153865	9.05	549509	12.03	251885	15.98
03							
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22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-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.

page 1 of 1

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2293A SAS No.: _____ SDG No.: A2293

Lab File ID: (Standard): >S1192 Date Analyzed:10/13/00

Instrument ID: HP5972S Time Analyzed:1014

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	385005	19.04	261537	24.48	191264	27.28
	UPPER LIMIT	770010	19.54	523074	24.98	382528	27.78
	LOWER LIMIT	192502	18.54	130768	23.98	95632	26.78
	EPA SAMPLE NO.						
01	SBLKO2	467683	19.04	349769	24.49	270265	27.29
02	SBLKO2FMS	423317	19.06	244661	24.50	193290	27.30
03							
04							
05							
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22							

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

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

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

FORM VIII SV-2

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2293A SAS No.: _____ SDG No.: A2293

Lab File ID: (Standard): >S1228 Date Analyzed:10/17/00

Instrument ID: HP5972S Time Analyzed:1029

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	148267	8.89	514865	11.86	232191	15.81
	UPPER LIMIT	296534	9.39	1029730	12.36	464382	16.31
	LOWER LIMIT	74134	8.39	257432	11.36	116096	15.31
	EPA SAMPLE NO.						
01	SW-09	125200	8.88	446472	11.85	219778	15.82
02	SW-09MS	130486	8.89	463864	11.86	224785	15.81
03	SW-09MSD	139346	8.88	499208	11.86	243130	15.82
04	FB	140584	8.88	475557	11.86	235381	15.81
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22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-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.

page 1 of 1

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2293A SAS No.: _____ SDG No.: A2293

Lab File ID: (Standard): >S1228 Date Analyzed:10/17/00

Instrument ID: HP5972S Time Analyzed:1029

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT
	12 HOUR STD	368715	18.89	239876	24.32	175829	27.0
	UPPER LIMIT	737430	19.39	479752	24.82	351658	27.5
	LOWER LIMIT	184358	18.39	119938	23.82	87914	26.5
	EPA SAMPLE NO.						
01	SW-09	340698	18.88	220959	24.32	171637	27.1
02	SW-09MS	359479	18.89	231478	24.32	175967	27.09
03	SW-09MSD	393874	18.89	253201	24.32	184676	27.09
04	FB	370667	18.89	257260	24.32	192138	27.09
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20							
21							
22							

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

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

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

FORM VIII SV-2

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-09

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2293A SAS No.: _____ SDG No.: A2293

Matrix: (soil/water) WATER Lab Sample ID: 002293A-01

Sample wt/vol: 900 (g/mL) ML Lab File ID: >S1241

Level: (low/med) LOW Date Received: 09/20/C

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 10/12/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/17/00

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/L	Q
108-94-1	Cyclohexanone	11	U
108-95-2	Phenol	11	U
111-44-4	bis(2-Chloroethyl)ether	11	U
95-57-8	2-Chlorophenol	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
100-51-6	Benzyl alcohol	11	U
95-50-1	1,2-Dichlorobenzene	11	U
95-48-7	2-Methylphenol	11	U
108-60-1	bis(2-Chloroisopropyl)ether	11	U
106-44-5	4-Methylphenol	11	U
621-64-7	N-Nitroso-di-n-propylamine	11	U
67-72-1	Hexachloroethane	11	U
98-95-3	Nitrobenzene	11	U
78-59-1	Isophorone	11	U
88-75-5	2-Nitrophenol	11	U
105-67-9	2,4-Dimethylphenol	11	U
65-85-0	Benzoic acid	56	U
111-91-1	bis(2-Chloroethoxy)methane	11	U
120-83-2	2,4-Dichlorophenol	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U
91-20-3	Naphthalene	11	U
106-47-8	4-Chloroaniline	11	U
87-68-3	Hexachlorobutadiene	11	U
59-50-7	4-Chloro-3-methylphenol	11	U
91-57-6	2-Methylnaphthalene	11	U
77-47-4	Hexachlorocyclopentadiene	11	U
88-06-2	2,4,6-Trichlorophenol	11	U
95-95-4	2,4,5-Trichlorophenol	56	U
91-58-7	2-Chloronaphthalene	11	U
88-74-4	2-Nitroaniline	56	U
131-11-3	Dimethylphthalate	11	U
208-96-8	Acenaphthylene	11	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-09

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2293A SAS No.: _____ SDG No.: A2293

Matrix: (soil/water) WATER Lab Sample ID: 002293A-01

Sample wt/vol: 900 (g/mL) ML Lab File ID: >S1241

Level: (low/med) LOW Date Received: 09/20/00

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 10/12/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/17/00

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/L	Q
606-20-2	2,6-Dinitrotoluene	11	U
99-09-2	3-Nitroaniline	56	U
83-32-9	Acenaphthene	11	U
51-28-5	2,4-Dinitrophenol	56	U
100-02-7	4-Nitrophenol	56	U
132-64-9	Dibenzofuran	11	U
121-14-2	2,4-Dinitrotoluene	11	U
84-66-2	Diethylphthalate	11	U
7005-72-3	4-Chlorophenyl-phenylether	11	U
86-73-7	Fluorene	11	U
100-01-6	4-Nitroaniline	56	U
534-52-1	4,6-Dinitro-2-methylphenol	56	U
86-30-6	N-Nitrosodiphenylamine (1)	11	U
101-55-3	4-Bromophenyl-phenylether	11	U
118-74-1	Hexachlorobenzene	11	U
87-86-5	Pentachlorophenol	56	U
85-01-8	Phenanthrene	11	U
120-12-7	Anthracene	11	U
84-74-2	Di-n-butylphthalate	11	U
206-44-0	Fluoranthene	11	U
129-00-0	Pyrene	11	U
85-68-7	Butylbenzylphthalate	11	U
91-94-1	3,3'-Dichlorobenzidine	22	U
56-55-3	Benzo(a)anthracene	11	U
218-01-9	Chrysene	11	U
117-81-7	bis(2-Ethylhexyl)phthalate	11	U
117-84-0	Di-n-octylphthalate	11	U
205-99-2	Benzo(b)fluoranthene	11	U
207-08-9	Benzo(k)fluoranthene	11	U
50-32-8	Benzo(a)pyrene	11	U
193-39-5	Indeno(1,2,3-cd)pyrene	11	U
53-70-3	Dibenzo(a,h)anthracene	11	U
191-24-2	Benzo(g,h,i)perylene	11	U

(1) - Cannot be separated from Diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2293A SAS No.: _____ SDG No.: A2293

Matrix: (soil/water) WATER Lab Sample ID: 002293A-02

Sample wt/vol: 900 (g/mL) ML Lab File ID: >S1244

Level: (low/med) LOW Date Received: 09/20/00

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 10/12/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/17/00

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/L	Q
108-94-1	Cyclohexanone	11	U
108-95-2	Phenol	11	U
111-44-4	bis(2-Chloroethyl)ether	11	U
95-57-8	2-Chlorophenol	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
100-51-6	Benzyl alcohol	11	U
95-50-1	1,2-Dichlorobenzene	11	U
95-48-7	2-Methylphenol	11	U
108-60-1	bis(2-Chloroisopropyl)ether	11	U
106-44-5	4-Methylphenol	11	U
621-64-7	N-Nitroso-di-n-propylamine	11	U
67-72-1	Hexachloroethane	11	U
98-95-3	Nitrobenzene	11	U
78-59-1	Isophorone	1	J
88-75-5	2-Nitrophenol	11	U
105-67-9	2,4-Dimethylphenol	11	U
65-85-0	Benzoic acid	56	U
111-91-1	bis(2-Chloroethoxy)methane	11	U
120-83-2	2,4-Dichlorophenol	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U
91-20-3	Naphthalene	11	U
106-47-8	4-Chloroaniline	11	U
87-68-3	Hexachlorobutadiene	11	U
59-50-7	4-Chloro-3-methylphenol	11	U
91-57-6	2-Methylnaphthalene	11	U
77-47-4	Hexachlorocyclopentadiene	11	U
88-06-2	2,4,6-Trichlorophenol	11	U
95-95-4	2,4,5-Trichlorophenol	56	U
91-58-7	2-Chloronaphthalene	11	U
88-74-4	2-Nitroaniline	56	U
131-11-3	Dimethylphthalate	11	U
208-96-8	Acenaphthylene	11	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2293A SAS No.: _____ SDG No.: A2293

Matrix: (soil/water) WATER Lab Sample ID: 002293A-02

Sample wt/vol: 900 (g/mL) ML Lab File ID: >S1244

Level: (low/med) LOW Date Received: 09/20/00

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 10/12/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/17/00

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/L	Q
606-20-2	2,6-Dinitrotoluene	11	U
99-09-2	3-Nitroaniline	56	U
83-32-9	Acenaphthene	11	U
51-28-5	2,4-Dinitrophenol	56	U
100-02-7	4-Nitrophenol	56	U
132-64-9	Dibenzofuran	11	U
121-14-2	2,4-Dinitrotoluene	11	U
84-66-2	Diethylphthalate	11	U
7005-72-3	4-Chlorophenyl-phenylether	11	U
86-73-7	Fluorene	11	U
100-01-6	4-Nitroaniline	56	U
534-52-1	4,6-Dinitro-2-methylphenol	56	U
86-30-6	N-Nitrosodiphenylamine (1)	11	U
101-55-3	4-Bromophenyl-phenylether	11	U
118-74-1	Hexachlorobenzene	11	U
87-86-5	Pentachlorophenol	56	U
85-01-8	Phenanthrene	11	U
120-12-7	Anthracene	11	U
84-74-2	Di-n-butylphthalate	11	U
206-44-0	Fluoranthene	11	U
129-00-0	Pyrene	11	U
85-68-7	Butylbenzylphthalate	11	U
91-94-1	3,3'-Dichlorobenzidine	22	U
56-55-3	Benzo(a)anthracene	11	U
218-01-9	Chrysene	11	U
117-81-7	bis(2-Ethylhexyl)phthalate	11	U
117-84-0	Di-n-octylphthalate	11	U
205-99-2	Benzo(b)fluoranthene	11	U
207-08-9	Benzo(k)fluoranthene	11	U
50-32-8	Benzo(a)pyrene	11	U
193-39-5	Indeno(1,2,3-cd)pyrene	11	U
53-70-3	Dibenzo(a,h)anthracene	11	U
191-24-2	Benzo(g,h,i)perylene	11	U

(1) - Cannot be separated from Diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKO2

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2293A SAS No.: _____ SDG No.: A2293

Matrix: (soil/water) WATER Lab Sample ID: SBLKO2

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >S1198

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

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 10/12/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/13/00

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/L	Q
108-94-1	Cyclohexanone	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic acid	50	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKO2

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2293A SAS No.: _____ SDG No.: A2293

Matrix: (soil/water) WATER Lab Sample ID: SBLKO2

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >S1198

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

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 10/12/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/13/00

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/L	Q
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKO2FMS

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2293A SAS No.: _____ SDG No.: A2293

Matrix: (soil/water) WATER Lab Sample ID: SBLKO2FMS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >S1199

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

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 10/12/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/13/00

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/L	Q
108-94-1	Cyclohexanone	10	U
108-95-2	Phenol	20	
111-44-4	bis(2-Chloroethyl)ether	35	
95-57-8	2-Chlorophenol	37	
541-73-1	1,3-Dichlorobenzene	32	
106-46-7	1,4-Dichlorobenzene	33	
100-51-6	Benzyl alcohol	41	
95-50-1	1,2-Dichlorobenzene	35	
95-48-7	2-Methylphenol	35	
108-60-1	bis(2-Chloroisopropyl)ether	36	
106-44-5	4-Methylphenol	36	
621-64-7	N-Nitroso-di-n-propylamine	36	
67-72-1	Hexachloroethane	32	
98-95-3	Nitrobenzene	36	
78-59-1	Isophorone	39	
88-75-5	2-Nitrophenol	37	
105-67-9	2,4-Dimethylphenol	29	
65-85-0	Benzoic acid	8	J
111-91-1	bis(2-Chloroethoxy)methane	37	
120-83-2	2,4-Dichlorophenol	39	
120-82-1	1,2,4-Trichlorobenzene	34	
91-20-3	Naphthalene	34	
106-47-8	4-Chloroaniline	34	
87-68-3	Hexachlorobutadiene	34	
59-50-7	4-Chloro-3-methylphenol	39	
91-57-6	2-Methylnaphthalene	34	
77-47-4	Hexachlorocyclopentadiene	25	
88-06-2	2,4,6-Trichlorophenol	39	
95-95-4	2,4,5-Trichlorophenol	38	J
91-58-7	2-Chloronaphthalene	46	
88-74-4	2-Nitroaniline	40	J
131-11-3	Dimethylphthalate	40	
208-96-8	Acenaphthylene	34	

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKO2FMS

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2293A SAS No.: _____ SDG No.: A2293

Matrix: (soil/water) WATER Lab Sample ID: SBLKO2FMS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >S1199

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

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 10/12/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/13/00

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/L	Q
606-20-2	2,6-Dinitrotoluene	40	
99-09-2	3-Nitroaniline	40	J
83-32-9	Acenaphthene	36	
51-28-5	2,4-Dinitrophenol	28	J
100-02-7	4-Nitrophenol	24	J
132-64-9	Dibenzofuran	39	
121-14-2	2,4-Dinitrotoluene	40	
84-66-2	Diethylphthalate	39	
7005-72-3	4-Chlorophenyl-phenylether	34	
86-73-7	Fluorene	36	
100-01-6	4-Nitroaniline	42	J
534-52-1	4,6-Dinitro-2-methylphenol	39	J
86-30-6	N-Nitrosodiphenylamine (1)	36	
101-55-3	4-Bromophenyl-phenylether	34	
118-74-1	Hexachlorobenzene	37	
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	37	
120-12-7	Anthracene	36	
84-74-2	Di-n-butylphthalate	38	
206-44-0	Fluoranthene	36	
129-00-0	Pyrene	41	
85-68-7	Butylbenzylphthalate	41	
91-94-1	3,3'-Dichlorobenzidine	33	
56-55-3	Benzo(a)anthracene	36	
218-01-9	Chrysene	30	
117-81-7	bis(2-Ethylhexyl)phthalate	34	
117-84-0	Di-n-octylphthalate	40	
205-99-2	Benzo(b)fluoranthene	36	
207-08-9	Benzo(k)fluoranthene	34	
50-32-8	Benzo(a)pyrene	36	
193-39-5	Indeno(1,2,3-cd)pyrene	39	
53-70-3	Dibenzo(a,h)anthracene	38	
191-24-2	Benzo(g,h,i)perylene	42	

(1) - Cannot be separated from Diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-09MS

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2293A SAS No.: _____ SDG No.: A2293

Matrix: (soil/water) WATER Lab Sample ID: 002293A-01MS

Sample wt/vol: 950 (g/mL) ML Lab File ID: >S1242

Level: (low/med) LOW Date Received: 09/20/[illegible]

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 10/12/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/17/00

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/L	Q
108-94-1	Cyclohexanone	10	U
108-95-2	Phenol	41	
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	77	
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	41	
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	41	
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic acid	53	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	44	
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	86	E
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	53	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	53	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-09MS

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2293A SAS No.: _____ SDG No.: A2293

Matrix: (soil/water) WATER Lab Sample ID: 002293A-01MS

Sample wt/vol: 950 (g/mL) ML Lab File ID: >S1242

Level: (low/med) LOW Date Received: 09/20/00

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 10/12/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/17/00

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/L	Q
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	53	U
83-32-9	Acenaphthene	39	
51-28-5	2,4-Dinitrophenol	53	U
100-02-7	4-Nitrophenol	51	J
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	47	
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	53	U
534-52-1	4,6-Dinitro-2-methylphenol	53	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	83	
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	45	
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	21	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-09MSD

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2293A SAS No.: _____ SDG No.: A2293

Matrix: (soil/water) WATER Lab Sample ID: 002293A-01MSD

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >S1243

Level: (low/med) LOW Date Received: 09/20/00

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 10/12/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/17/00

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/L	Q
108-94-1	Cyclohexanone	10	U
108-95-2	Phenol	40	
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	78	
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	42	
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	42	
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic acid	50	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	45	
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	87	E
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-09MSD

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2293A SAS No.: _____ SDG No.: A2293

Matrix: (soil/water) WATER Lab Sample ID: 002293A-01MSD

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >S1243

Level: (low/med) LOW Date Received: 09/20/00

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 10/12/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/17/00

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/L	Q
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	40	
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	49	J
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	48	
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	87	E
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	43	
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

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COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2293A SAS No.: _____ SDG No.: A2293

SOW No.: ILM04.0

Field Sample ID	Lab Sample ID.
SW-09D	F002293A-01D
SW-09S	F002293A-01S
SW-09	F002293A-01
FB	F002293A-02
SW-09D	T002293A-01D
SW-09S	T002293A-01S
SW-09	T002293A-01
FB	T002293A-02

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES
If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: [signature] Name: Daniel W. Hoffman

Date: 10/20/00 Title: Group Leader

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-09

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2293A SAS No.: _____ SDG No.: A2293

Matrix (soil/water): WATER Lab Sample ID: F002293A-01

Level (low/med): LOW Date Received: 09/20/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	2.8	B		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Filtered Metals

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1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

FB

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2293A SAS No.: _____ SDG No.: A2293

Matrix (soil/water): WATER Lab Sample ID: F002293A-02

Level (low/med): LOW Date Received: 09/20/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	2.5	U		P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Filtered Metals

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-09

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2293A SAS No.: _____ SDG No.: A2293

Matrix (soil/water): WATER Lab Sample ID: T002293A-01

Level (low/med): LOW Date Received: 09/20/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	42.2	B		P
7440-36-0	Antimony	5.0	U		P
7440-38-2	Arsenic	21.5			P
7440-39-3	Barium	27.4	B		P
7440-41-7	Beryllium	0.50	U		P
7440-43-9	Cadmium	0.50	U		P
7440-70-2	Calcium	38100			P
7440-47-3	Chromium	2.1	B		P
7440-48-4	Cobalt	1.0	B		P
7440-50-8	Copper	6.8	B		P
7439-89-6	Iron	1730			P
7439-92-1	Lead	2.0	U		P
7439-95-4	Magnesium	5430			P
7439-96-5	Manganese	324.			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	2.4	B		P
7440-09-7	Potassium	6880			P
7782-49-2	Selenium	5.0	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	33500			P
7440-28-0	Thallium	6.0	U		P
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	149.			P
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Total Metals

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

FB

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2293A SAS No.: _____ SDG No.: A2293

Matrix (soil/water): WATER Lab Sample ID: T002293A-02

Level (low/med): LOW Date Received: 09/20/00

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	10.0	U		P
7440-36-0	Antimony	5.0	U		P
7440-38-2	Arsenic	2.5	U		P
7440-39-3	Barium	3.4	B		P
7440-41-7	Beryllium	0.50	U		P
7440-43-9	Cadmium	0.50	U		P
7440-70-2	Calcium	12500			P
7440-47-3	Chromium	1.0	U		P
7440-48-4	Cobalt	1.0	U		P
7440-50-8	Copper	2.6	B		P
7439-89-6	Iron	41.1	B		P
7439-92-1	Lead	2.0	U		P
7439-95-4	Magnesium	1840	B		P
7439-96-5	Manganese	4.2	B		P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	1.5	U		P
7440-09-7	Potassium	626.	B		P
7782-49-2	Selenium	5.0	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	4860	B		P
7440-28-0	Thallium	6.0	U		P
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	9.0	B		P
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Total Metals

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2293

Initial Calibration Source: INORG. VENT.

Continuing Calibration Source: INORG. VENT.

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum	11000.0	10928.62	99.4	5500.0	5528.42	100.5	5680.71	103.3	P
Antimony	1000.0	1015.67	101.6	500.0	508.90	101.8	534.11	106.8	P
Arsenic	1000.0	1019.38	101.9	500.0	508.53	101.7	526.52	105.3	P
Barium	1000.0	1001.28	100.1	500.0	507.92	101.6	520.38	104.1	P
Beryllium	1000.0	1039.70	104.0	500.0	519.45	103.9	535.86	107.2	P
Cadmium	1000.0	1020.68	102.1	500.0	512.46	102.5	532.28	106.4	P
Calcium	27000.0	27215.11	100.8	19800.0	19980.22	100.9	20602.22	104.0	P
Chromium	1000.0	1010.22	101.0	500.0	508.10	101.6	524.43	104.9	P
Cobalt	1000.0	992.99	99.3	500.0	497.79	99.6	514.84	103.0	P
Copper	1000.0	988.76	98.9	500.0	496.46	99.3	508.93	101.8	P
Iron	11000.0	10974.33	99.8	5500.0	5558.80	101.1	5731.31	104.2	P
Lead	1000.0	999.60	100.0	500.0	500.99	100.2	520.22	104.0	P
Magnesium	27000.0	26817.00	99.3	19800.0	19537.05	98.7	20352.98	102.8	P
Manganese	1000.0	988.29	98.8	500.0	495.41	99.1	509.76	102.0	P
Mercury	5.0	5.26	105.2	5.0	5.37	107.4	5.61	112.2	CV
Nickel	1000.0	969.96	97.0	500.0	487.62	97.5	505.48	101.1	P
Potassium	20000.0	20797.38	104.0	10000.0	9824.23	98.2	10622.17	106.2	P
Selenium	1000.0	1041.16	104.1	500.0	521.85	104.4	545.84	109.2	P
Silver	100.0	102.62	102.6	50.0	52.42	104.8	53.39	106.8	P
Sodium	27000.0	26856.36	99.5	19800.0	20635.91	104.2	21393.01	108.0	P
Thallium	1000.0	1057.97	105.8	500.0	521.81	104.4	544.14	108.8	P
Vanadium	1000.0	1047.35	104.7	500.0	527.20	105.4	545.49	109.1	P
Zinc	1000.0	1032.39	103.2	500.0	519.96	104.0	540.71	108.1	P
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110 ; Cyanide 85-115;

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2293

Initial Calibration Source: INORG. VENT.

Continuing Calibration Source: INORG. VENT.

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum				5500.0	5495.35	99.9	5602.49	101.9	P
Antimony				500.0	512.43	102.5	509.47	101.9	P
Arsenic				500.0	510.52	102.1	519.31	103.9	P
Barium				500.0	499.57	99.9	503.00	100.6	P
Beryllium				500.0	520.03	104.0	527.11	105.4	P
Cadmium				500.0	513.82	102.8	521.02	104.2	P
Calcium				19800.0	19989.47	101.0	20313.07	102.6	P
Chromium				500.0	507.37	101.5	514.53	102.9	P
Cobalt				500.0	497.29	99.4	504.74	100.9	P
Copper				500.0	491.89	98.4	495.95	99.2	P
Iron				5500.0	5539.35	100.7	5636.28	102.5	P
Lead				500.0	503.77	100.8	512.74	102.5	P
Magnesium				19800.0	19774.25	99.9	20030.46	101.2	P
Manganese				500.0	494.85	99.0	501.25	100.2	P
Mercury				5.0	5.07	101.4			CV
Nickel				500.0	489.43	97.9	496.83	99.4	P
Potassium				10000.0	10261.17	102.6	10302.40	103.0	P
Selenium				500.0	526.24	105.2	534.44	106.9	P
Silver				50.0	51.49	103.0	52.02	104.0	P
Sodium				19800.0	20807.92	105.1	21184.30	107.0	P
Thallium				500.0	516.96	103.4	536.50	107.3	P
Vanadium				500.0	525.51	105.1	530.31	106.1	P
Zinc				500.0	523.40	104.7	532.26	106.4	P
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110 ; Cyanide 85-115;

U.S. EPA - CLP

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2293

AA CRDL Standard Source: INORG. VENT.

ICP CRDL Standard Source: INORG. VENT.

Concentration Units: ug/L

Analyte	CRDL Standard for AA True	Found	%R(1)	CRDL Standard for ICP True	Initial Found	%R(1)	Final Found	%R(1)
Aluminum								
Antimony				120.0	123.78	103.2	125.86	104.9
Arsenic				20.0 ~~5.0~~	21.95	~~439.1~~	19.12	~~382.6~~
Barium						109.1		95.60
Beryllium				10.0	10.19	102.0	10.69	106.9
Cadmium				10.0	10.26	102.7	10.79	108.0
Calcium								
Chromium				20.0	20.57	102.9	21.69	108.5
Cobalt				100.0	100.70	100.7	106.13	106.1
Copper				50.0	51.35	102.7	54.12	108.2
Iron								
Lead				6.0 ~~4.0~~	6.56	~~164.2~~	6.33	~~158.3~~
Magnesium						109.3		105.1
Manganese				30.0	30.55	101.8	32.03	106.8
Mercury								
Nickel				80.0	80.31	100.4	85.39	106.7
Potassium								
Selenium				10.0	9.26	92.7	10.14	101.4
Silver				20.0	21.20	106.0	22.01	110.1
Sodium								
Thallium				20.0	23.74	118.7	27.30	136.5
Vanadium				100.0	103.26	103.3	108.22	108.2
Zinc				40.0	40.61	101.5	45.03	112.6
Cyanide								

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3
BLANKS

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2293

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	10.0	U	10.0	U	10.0	U	10.0	U	10.000	U	P
Antimony	5.0	U	5.0	U	5.0	U	5.0	U	5.000	U	P
Arsenic	2.5	U	2.5	U	2.5	U	2.5	U	2.500	U	P
Barium	0.5	U	0.5	U	0.5	U	0.5	U	0.500	U	P
Beryllium	0.5	U	0.5	U	0.5	U	0.5	U	0.500	U	P
Cadmium	0.5	U	0.5	U	0.5	U	0.5	U	0.500	U	P
Calcium	10.0	U	16.3	B	10.0	U	10.0	U	11.454	B	P
Chromium	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Cobalt	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Copper	1.0	U	1.0	U	1.0	U	1.0	U	1.100	B	P
Iron	10.0	U	10.0	U	10.0	U	10.0	U	10.000	U	P
Lead	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	P
Magnesium	10.0	U	13.9	B	10.0	U	10.0	U	10.000	U	P
Manganese	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Mercury	0.1	U	0.1	U	0.1	U			0.100	U	CV
Nickel	1.5	U	1.5	U	1.5	U	1.5	U	1.500	U	P
Potassium	200.0	U	200.0	U	200.0	U	207.4	B	200.000	U	P
Selenium	5.0	U	5.0	U	5.0	U	5.0	U	5.000	U	P
Silver	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Sodium	20.0	U	20.0	U	20.0	U	20.0	U	20.000	U	P
Thallium	6.0	U	6.0	U	6.0	U	6.0	U	6.000	U	P
Vanadium	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Zinc	5.0	U	5.0	U	5.0	U	5.0	U	5.000	U	P
Cyanide											NR

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3
BLANKS

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2293

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum			10.0	U							P
Antimony			5.0	U							P
Arsenic			2.5	U							P
Barium			0.5	U							P
Beryllium			0.5	U							P
Cadmium			0.5	U							P
Calcium			15.0	B							P
Chromium			1.0	U							P
Cobalt			1.0	U							P
Copper			1.0	U							P
Iron			10.0	U							P
Lead			2.0	U							P
Magnesium			15.8	B							P
Manganese			1.0	U							P
Mercury											NR
Nickel			1.5	U							P
Potassium			200.0	U							P
Selenium			5.0	U							P
Silver			1.0	U							P
Sodium			20.0	U							P
Thallium			6.0	U							P
Vanadium			1.0	U							P
Zinc			5.0	U							P
Cyanide											NR

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4
ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2293

ID Number: JA61 ICS Source: EPA-LV87

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	%R	Final Found Sol. A	Final Found Sol. AB	%R
Aluminum	500000	500000	528509	508560.3	101.7	529806	501237.2	100.2
Antimony		600	-1	661.9	110.3	6	651.2	108.5
Arsenic		100	-3	102.8	102.8	3	101.5	101.5
Barium		500	2	528.0	105.6	2	512.6	102.5
Beryllium		500	0	525.4	105.0	0	520.4	104.0
Cadmium		1000	0	976.0	97.6	0	974.4	97.4
Calcium	500000	500000	516943	498183.1	99.6	524111	496582.5	99.3
Chromium		500	2	496.4	99.2	2	492.1	98.4
Cobalt		500	-4	480.4	96.0	-4	477.8	95.5
Copper		500	-3	519.8	103.9	-3	506.0	101.2
Iron	200000	200000	202305	195301.9	97.6	205083	194086.6	97.0
Lead		50	-8	42.5	85.0	-3	47.9	95.8
Magnesium	500000	500000	546165	524234.0	104.8	557604	525570.6	105.1
Manganese		500	-4	484.3	96.8	-4	479.0	95.8
Mercury								
Nickel		1000	0	939.5	93.9	0	932.7	93.2
Potassium			110	12.9		419	133.7	
Selenium		50	2	55.6	111.3	4	57.7	115.4
Silver		200	0	224.6	112.3	0	220.2	110.1
Sodium			21	12.9		61	44.4	
Thallium		100	-2	103.0	103.0	-4	104.9	104.9
Vanadium		500	-1	520.1	104.0	-1	512.1	102.4
Zinc		1000	2	988.5	98.8	3	995.3	99.5
Cyanide								

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

SW-09S

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2293A SAS No.: _____ SDG No.: A2293

Matrix: WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony									NR
Arsenic	75-125	43.6992		2.7610	B	40.00	102.3		P
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

Comments:
Filtered Metals

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

SW-09S

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2293A SAS No.: _____ SDG No.: A2293

Matrix: WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum	75-125	1936.9320		42.1634	B	2000.00	94.7		P
Antimony	75-125	510.1658		5.0000	U	500.00	102.0		P
Arsenic	75-125	60.9519		21.4842		40.00	98.7		P
Barium	75-125	1970.6620		27.4253	B	2000.00	97.2		P
Beryllium	75-125	50.4430		0.5000	U	50.00	100.9		P
Cadmium	75-125	5.1218		0.5000	U	5.00	102.4		P
Calcium				38078.1400		0.00	0.0		P
Chromium	75-125	193.8139		2.0971	B	200.00	95.8		P
Cobalt	75-125	472.6519		1.0574	B	500.00	94.3		P
Copper	75-125	241.4759		6.8132	B	250.00	93.9		P
Iron	75-125	2648.1370		1730.1160		1000.00	91.8		P
Lead	75-125	19.7465		2.0000	U	20.00	98.7		P
Magnesium				5426.1780		0.00	0.0		P
Manganese	75-125	783.0748		323.5223		500.00	91.9		P
Mercury	75-125	0.8690		0.1000	U	1.00	86.9		CV
Nickel	75-125	471.9858		2.4301	B	500.00	93.9		P
Potassium				6884.7140		0.00	0.0		P
Selenium	75-125	12.3787		5.0000	U	10.00	123.8		P
Silver	75-125	49.2162		1.0000	U	50.00	98.4		P
Sodium				33490.4700		0.00	0.0		P
Thallium	75-125	50.6839		6.0000	U	50.00	101.4		P
Vanadium	75-125	494.6080		1.0000	U	500.00	98.9		P
Zinc	75-125	636.1031		149.1569		500.00	97.4		P
Cyanide									NR

Comments:
Total Metals

U.S. EPA - CLP

6
DUPLICATES

EPA SAMPLE NO.

SW-09D

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2293A SAS No.: _____ SDG No.: A2293

Matrix: WATER Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								NR
Antimony								NR
Arsenic		2.7610	B	2.7166	B	1.6		P
Barium								NR
Beryllium								NR
Cadmium								NR
Calcium								NR
Chromium								NR
Cobalt								NR
Copper								NR
Iron								NR
Lead								NR
Magnesium								NR
Manganese								NR
Mercury								NR
Nickel								NR
Potassium								NR
Selenium								NR
Silver								NR
Sodium								NR
Thallium								NR
Vanadium								NR
Zinc								NR
Cyanide								NR

Filtered Metals

U.S. EPA - CLP

6
DUPLICATES

EPA SAMPLE NO.

SW-09D

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2293A SAS No.: _____ SDG No.: A2293

Matrix: WATER Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		42.1634	B	32.9244	B	24.6		P
Antimony		5.0000	U	5.0000	U			P
Arsenic	.0	21.4842		19.7065		8.6		P
Barium		27.4253	B	27.6181	B	0.7		P
Beryllium		0.5000	U	0.5000	U			P
Cadmium		0.5000	U	0.5000	U			P
Calcium		38078.1400		38343.3300		0.7		P
Chromium		2.0971	B	2.0398	B	2.8		P
Cobalt		1.0574	B	1.0058	B	5.0		P
Copper		6.8132	B	7.1714	B	5.1		P
Iron		1730.1160		1732.5340		0.1		P
Lead		2.0000	U	2.0000	U			P
Magnesium	.0	5426.1780		5473.0100		0.8		P
Manganese		323.5223		325.4840		0.6		P
Mercury		0.1000	U	0.1000	U			CV
Nickel		2.4301	B	2.6819	B	9.8		P
Potassium	.0	6884.7140		6944.5090		0.9		P
Selenium		5.0000	U	5.0000	U			P
Silver		1.0000	U	1.0000	U			P
Sodium		33490.4700		33652.4100		0.5		P
Thallium		6.0000	U	6.0000	U			P
Vanadium		1.0000	U	1.0000	U			P
Zinc		149.1569		158.3569		6.0		P
Cyanide								NR

Total Metals

U.S. EPA - CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2293

Solid LCS Source: _____

Aqueous LCS Source: INORG. VENT.

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum	3000.0	2862.17	95.4						
Antimony	1000.0	1023.25	102.3						
Arsenic	1000.0	987.21	98.7						
Barium	300.0	299.03	99.7						
Beryllium	100.0	102.08	102.1						
Cadmium	300.0	291.76	97.2						
Calcium	15000.0	14189.24	94.6						
Chromium	300.0	294.91	98.3						
Cobalt	300.0	292.32	97.4						
Copper	300.0	291.38	97.1						
Iron	12500.0	11891.72	95.1						
Lead	1000.0	961.69	96.2						
Magnesium	7500.0	7047.28	94.0						
Manganese	200.0	191.70	95.8						
Mercury	5.0	5.33	106.6						
Nickel	300.0	290.43	96.8						
Potassium	20000.0	21706.77	108.5						
Selenium	500.0	518.65	103.7						
Silver	300.0	305.85	102.0						
Sodium	2500.0	2489.93	99.6						
Thallium	1000.0	988.67	98.9						
Vanadium	300.0	303.07	101.0						
Zinc	300.0	302.89	101.0						
Cyanide									

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8
STANDARD ADDITION RESULTS

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2293

Concentration Units: ug/L

EPA Sample No.	An	0 ADD ABS	1 ADD CON	1 ADD ABS	2 ADD CON	2 ADD ABS	3 ADD CON	3 ADD ABS	Final Conc.	r	Q

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9

ICP SERIAL DILUTIONS

EPA SAMPLE NO.

SW-09L

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2293A SAS No.: _____ SDG No.: A2293

Matrix(soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Differ-ence	Q	M
Aluminum	42.16	B	50.00	U	100.0		P
Antimony	5.00	U	25.00	U			P
Arsenic	21.48		21.70	B	1.0		P
Barium	27.42	B	28.52	B	4.0		P
Beryllium	0.50	U	2.50	U			P
Cadmium	0.50	U	2.50	U			P
Calcium	38078.14		38263.26		0.5		P
Chromium	2.10	B	5.00	U	100.0		P
Cobalt	1.06	B	5.00	U	100.0		P
Copper	6.81	B	9.74	B	42.9		P
Iron	1730.12		1766.21		2.1		P
Lead	2.00	U	10.00	U			P
Magnesium	5426.18		5535.92	B	2.0		P
Manganese	323.52		327.94		1.4		P
Mercury							NR
Nickel	2.43	B	7.50	U	100.0		P
Potassium	6884.71		5878.94	B	14.6		P
Selenium	5.00	U	25.00	U			P
Silver	1.00	U	5.00	U			P
Sodium	33490.47		32634.37		2.6		P
Thallium	6.00	U	30.00	U			P
Vanadium	1.00	U	5.00	U			P
Zinc	149.16		174.05		16.7		P
Cyanide							NR

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10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2293

ICP ID Number: JA61 Date: 10/01/00

Flame AA ID Number: _____

Furnace AA ID Number: _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	208.20		200.0	10.0	P
Antimony	206.83		60.0	5.0	P
Arsenic	193.60		10.0	2.5	P
Barium	493.40		200.0	.5	P
Beryllium	234.86		5.0	.5	P
Cadmium	228.80		5.0	.5	P
Calcium	317.93		5000.0	10.0	P
Chromium	267.70		10.0	1.0	P
Cobalt	228.61		50.0	1.0	P
Copper	324.75		25.0	1.0	P
Iron	271.44		100.0	10.0	P
Lead	220.35		3.0	2.0	P
Magnesium	279.07		5000.0	10.0	P
Manganese	257.61		15.0	1.0	P
Mercury			.2		
Nickel	231.60		40.0	1.5	P
Potassium	766.49		5000.0	200.0	P
Selenium	196.02		5.0	5.0	P
Silver	328.06		10.0	1.0	P
Sodium	589.59		5000.0	20.0	P
Thallium	189.90		10.0	6.0	P
Vanadium	292.40		50.0	1.0	P
Zinc	213.85		20.0	5.0	P

Comments:

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10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2293

ICP ID Number: _____ Date: 10/01/00

Flame AA ID Number: HG4

Furnace AA ID Number: _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200.0		
Antimony			60.0		
Arsenic			10.0		
Barium			200.0		
Beryllium			5.0		
Cadmium			5.0		
Calcium			5000.0		
Chromium			10.0		
Cobalt			50.0		
Copper			25.0		
Iron			100.0		
Lead			3.0		
Magnesium			5000.0		
Manganese			15.0		
Mercury	253.70		.2	.1	CV
Nickel			40.0		
Potassium			5000.0		
Selenium			5.0		
Silver			10.0		
Sodium			5000.0		
Thallium			10.0		
Vanadium			50.0		
Zinc			20.0		

Comments:

U.S. EPA - CLP

11A
ICP Interelement correction Factors (Annually)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2293

ICP ID Number: JA61 Date: 06/05/00

Analyte	Wave-length (nm)	Interelement Correction Factors for : Al	Ca	Fe	Mg	Ag
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic						
Barium	493.40	0.0000000	2.3516000	0.0000000	0.0000000	0.0000000
Beryllium	234.86	0.0000000	-2.1540000	0.0000000	0.0000000	0.0000000
Cadmium	228.80	-.0014590	1.1105000	0.0000000	0.0000000	0.0000000
Calcium	317.93	.0086205	0.0000000	0.0000000	.0081618	0.0000000
Chromium	267.70	.0018652		-.0011680	-3.0940000	0.0000000
Cobalt	228.61	0.0000000		.0060000	-13.4160000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	-.4786330
Iron	271.44	.0033661	0.0000000	0.0000000	-.0291150	0.0000000
Lead	220.35	0.0000000	1.9097000	0.0000000	0.0000000	0.0000000
Magnesium	279.07	.0071408	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	-.1392250	.5557496
Mercury						
Nickel	231.60	-.0027450	3.1950000	0.0000000	0.0000000	-.1560630
Potassium	766.49	-.0079430	0.0000000	0.0000000	0.0000000	0.0000000
Selenium						
Silver	328.06	0.0000000		0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000		0.0000000	0.0000000	0.0000000
Thallium						
Vanadium	292.40	0.0000000	0.0000000	-.0040180	0.0000000	.4159166
Zinc	213.85	.0009443	8.7485000	0.0000000	0.0000000	0.0000000

Comments:

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11B
ICP Interelement correction Factors (Annually)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2293

ICP ID Number: JA61 Date: 06/05/00

Analyte	Wave-length (nm)	Interelement Correction Factors for : As	B	Ba	Be	Cd
Aluminum	308.21	3.9599940	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	.2221185	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic						
Barium	493.40	0.0000000	0.0000000	0.0000000	.0020452	0.0000000
Beryllium	234.86	2.2054610	0.0000000	3.3925410	0.0000000	.2991092
Cadmium	228.80	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	5.8517630	0.0000000
Chromium	267.70	-6.3830600	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.61	-.4015400	0.0000000	0.0000000	.0524210	.2877358
Copper	324.75	0.0000000	-14.5688000	0.0000000	0.0000000	0.0000000
Iron	271.44	-2.8353600	0.0000000	1.2696520	.0123381	-1.7637400
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.07	-1.9608300	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	.7548212	0.0000000	0.0000000	0.0000000	.0286714
Mercury						
Nickel	231.60	-.3004870	0.0000000	0.0000000	-.0254260	1.6268810
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium						
Silver	328.06	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium						
Vanadium	292.40	-1.4987800	0.0000000	0.0000000	.0845908	.0375521
Zinc	213.85	-1.3146900	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP

11B
ICP Interelement correction Factors (Annually)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2293

ICP ID Number: JA61 Date: 06/05/00

Analyte	Wave-length (nm)	Interelement Correction Factors for : Co	Cr	Cu	K	Mn
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0000000	.8822868
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic						
Barium	493.40	.4458370	0.0000000	0.0000000	0.0000000	-.1513210
Beryllium	234.86	0.0000000	-.1224680	0.0000000	0.0000000	0.0000000
Cadmium	228.80	-2.0803500	-1.0195500	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0000000	.9515125	0.0000000	0.0000000	0.0000000
Chromium	267.70	1.2502400	0.0000000	0.0000000	0.0000000	-.0417720
Cobalt	228.61	0.0000000	.0772782	0.0000000	0.0000000	-.0267550
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	-5.5184100	0.0000000	2.1567660	0.0000000	-3.4565100
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.07	0.0000000	1.3531870	0.0000000	.6270879	.1854641
Manganese	257.61	0.0000000	-.5727500	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	-.0428020	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium						
Silver	328.06	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium						
Vanadium	292.40	0.0000000	.4646357	-.7459740	0.0000000	-.4539330
Zinc	213.85	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP

11B
ICP Interelement correction Factors (Annually)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2293

ICP ID Number: JA61 Date: 06/05/00

Analyte	Wave-length (nm)	Interelement Correction Factors for : Mo	Na	Ni	Pb	Sb
Aluminum	308.21	0.0000000	0.0000000	0.0000000	7.4656990	.4182633
Antimony	206.83	0.0000000	.0959060	5.1763370	1.2997970	0.0000000
Arsenic						
Barium	493.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.86	0.0000000	0.0000000	-.0145800	0.0000000	-1.6234400
Cadmium	228.80	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0000000	.0105777	0.0000000	0.0000000	-1.3041900
Chromium	267.70	1.5194300	0.0000000	.4416338	-.1202820	7.7030790
Cobalt	228.61	-.0124570	0.0000000	2.2201410	.6915992	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	-3.6280800	0.0000000
Iron	271.44	-1.3566400	0.0000000	.5093932	.5134977	1.1269720
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.07	0.0000000	0.0000000	0.0000000	-.5954890	2.3300000
Manganese	257.61	0.0000000	0.0000000	0.0000000	4.4615890	0.0000000
Mercury						
Nickel	231.60	5.5485240	0.0000000	0.0000000	-.2555120	2.1088370
Potassium	766.49	0.0000000	.1218416	0.0000000	0.0000000	0.0000000
Selenium						
Silver	328.06	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium						
Vanadium	292.40	.9487286	0.0000000	0.0000000	-1.4936400	-.4668710
Zinc	213.85	0.0000000	0.0000000	0.0000000	0.0000000	-.6141440

Comments:

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11B
ICP Interelement correction Factors (Annually)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2293

ICP ID Number: JA61 Date: 06/05/00

Analyte	Wave-length (nm)	Interelement Correction Factors for : Se	Sn	Ti	Tl	V
Aluminum	308.21	6.2168040	.3024854	0.0000000	0.0000000	0.0000000
Antimony	206.83	3.0897440	-.6053750	0.0000000	0.0000000	0.0000000
Arsenic						
Barium	493.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.86	0.0000000	.6761988	0.0000000	0.0000000	0.0000000
Cadmium	228.80	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.93	1.7640180	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.70	0.0000000	.2208577	.9567213	4.5557730	1.2170310
Cobalt	228.61	2.5668270	.4390100	-.0063100	-6.0023600	0.0000000
Copper	324.75	.0519865	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	-1.8581700	.0754601	0.0000000	0.0000000	0.0000000
Lead	220.35	.9428241	1.1606640	0.0000000	0.0000000	0.0000000
Magnesium	279.07	-.0000450	-.0000240	.0131000	0.0000000	-.0050000
Manganese	257.61	2.4119190	-.3639270	0.0000000	-1.1010300	.9414657
Mercury						
Nickel	231.60	0.0000000	-.7297880	0.0000000	0.0000000	0.0000000
Potassium	766.49	5.3734670	0.0000000	0.0000000	0.0000000	0.0000000
Selenium						
Silver	328.06	.5868963	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	3.1253820	0.0000000	0.0000000	0.0000000	0.0000000
Thallium						
Vanadium	292.40	-.0953390	-.3701520	0.0000000	2.6711040	0.0000000
Zinc	213.85	.1325478	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

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11B
ICP Interelement correction Factors (Annually)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2293

ICP ID Number: JA61 Date: 06/05/00

Analyte	Wave-length (nm)	Interelement Correction Factors for : Zn	Zr			
Aluminum	308.21	0.0000000	0.0000000			
Antimony	206.83	-1.0792400	0.0000000			
Arsenic						
Barium	493.40	-.1870990	0.0000000			
Beryllium	234.86	0.0000000	0.0000000			
Cadmium	228.80	0.0000000	0.0000000			
Calcium	317.93	-.4802940	.8045480			
Chromium	267.70	0.0000000	-.0096980			
Cobalt	228.61	-1.6896500	1.0255960			
Copper	324.75	-1.9375200	0.0000000			
Iron	271.44	3.6036430	0.0000000			
Lead	220.35	0.0000000	0.0000000			
Magnesium	279.07	0.0000000	0.0000000			
Manganese	257.61	-.3086080	0.0000000			
Mercury						
Nickel	231.60	-4.4617100	0.0000000			
Potassium	766.49	0.0000000	0.0000000			
Selenium						
Silver	328.06	-1.8535700	0.0000000			
Sodium	589.59	-1.2720500	0.0000000			
Thallium						
Vanadium	292.40	-.1061740	0.0000000			
Zinc	213.85	0.0000000	0.0000000			

Comments:

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12
ICP Linear Ranges (Quarterly)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2293

ICP ID Number: JA61 Date: 10/01/00

Analyte	Integ. Time (sec.)	Concentration (ug/L)	M
Aluminum	6.00	500000.0	P
Antimony	6.00	10000.0	P
Arsenic	6.00	10000.0	P
Barium	6.00	10000.0	P
Beryllium	6.00	10000.0	P
Cadmium	6.00	10000.0	P
Calcium	6.00	200000.0	P
Chromium	6.00	200000.0	P
Cobalt	6.00	10000.0	P
Copper	6.00	100000.0	P
Iron	6.00	500000.0	P
Lead	6.00	500000.0	P
Magnesium	6.00	500000.0	P
Manganese	6.00	10000.0	P
Mercury			NR
Nickel	6.00	10000.0	P
Potassium	6.00	100000.0	P
Selenium	6.00	10000.0	P
Silver	6.00	10000.0	P
Sodium	6.00	500000.0	P
Thallium	6.00	100000.0	P
Vanadium	6.00	10000.0	P
Zinc	6.00	10000.0	P

Comments:

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13
PREPARATION LOG

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2293A SAS No.: _____ SDG No.: A2293

Method: P

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
F002293A-01	10/17/00	100.00	100
F002293A-01D	10/17/00	100.00	100
F002293A-01S	10/17/00	100.00	100
F002293A-01SD	10/17/00	100.00	100
F002293A-02	10/17/00	100.00	100
LCSW1	10/17/00	100.00	100
PBW1	10/17/00	100.00	100
T002293A-01	10/17/00	100.00	100
T002293A-01D	10/17/00	100.00	100
T002293A-01S	10/17/00	100.00	100
T002293A-01SD	10/17/00	100.00	100
T002293A-02	10/17/00	100.00	100

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13
PREPARATION LOG

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2293A SAS No.: _____ SDG No.: A2293

Method: CV

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
002293A-01	10/16/00	25.00	25
002293A-01D	10/16/00	25.00	25
002293A-01S	10/16/00	25.00	25
002293A-01SD	10/16/00	25.00	25
002293A-02	10/16/00	25.00	25
LCSW1	10/16/00		25
LCSW2	10/16/00		25
LCSW3	10/16/00		25
LCSW4	10/16/00		25
PBW1	10/16/00		25
PBW2	10/16/00		25
PBW3	10/16/00		25
PBW4	10/16/00		25

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14
ANALYSIS RUN LOG

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2293

Instrument ID Number: JA61 Method: P

Start Date: 10/18/00 End Date: 10/18/00

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S1	1.00	1234		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
S7	1.00	1239			X	X	X	X	X		X	X	X		X		X		X	X	X	X		X	X	X	
S8	1.00	1244			X	X	X	X	X		X	X	X		X		X		X	X	X	X		X	X	X	
S4	1.00	1248		X		X	X	X	X		X	X	X		X		X		X		X	X		X	X	X	
S9	1.00	1252		X						X				X		X							X				
S6	1.00	1255		X						X				X		X							X				
S5	1.00	1258			X															X							
S3	1.00	1301								X				X		X							X				
ICV1	1.00	1301		X		X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	X	X	X	
ICV1	1.00	1306			X															X							
ICB1	1.00	1311		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	1.00	1316																									
CRI1	1.00	1321			X	X		X	X		X	X	X		X		X		X		X	X		X	X	X	
ICSAI	1.00	1325		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICSABI	1.00	1330		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV1	1.00	1335		X		X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	X	X	X	
CCV1	1.00	1340			X															X							
CCB1	1.00	1345		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
PBW1	1.00	1349		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
LCSW1	1.00	1354		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
T002293A-01	1.00	1359		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
T002293A-01D	1.00	1404		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
T002293A-01S	1.00	1409		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
T002293A-01S	1.00	1415																									
T002293A-01A	1.00	1419																									
T002293A-01L	5.00	1424		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
F002293A-01	1.00	1429				X																					
F002293A-01D	1.00	1434				X																					
CCV2	1.00	1439		X		X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	X	X	X	
CCV2	1.00	1443			X															X							
CCB2	1.00	1448		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
F002293A-01S	1.00	1453				X																					
F002293A-01S	1.00	1458																									

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2293

Instrument ID Number: JA61 Method: P

Start Date: 10/18/00 End Date: 10/18/00

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
F002293A-01A	1.00	1503																									
T002293A-02	1.00	1508		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
F002293A-02	1.00	1512				X																					
ZZZZZZ	1.00	1517																									
ZZZZZZ	1.00	1522																									
ZZZZZZ	5.00	1527																									
ZZZZZZ	1.00	1532																									
ZZZZZZ	1.00	1536																									
CCV3	1.00	1541		X		X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	X	X	X	
ICV3	1.00	1546			X															X							
CCB3	1.00	1551		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	1.00	1556																									
ZZZZZZ	1.00	1601																									
ZZZZZZ	1.00	1605																									
ZZZZZZ	1.00	1610																									
ZZZZZZ	1.00	1615																									
ZZZZZZ	1.00	1620																									
ZZZZZZ	1.00	1625																									
CRI2	1.00	1630			X	X		X	X		X	X	X		X		X		X		X	X		X	X	X	
ICSAF	1.00	1634		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICSABF	1.00	1639		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV4	1.00	1644		X		X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	X	X	X	
CCV4	1.00	1649			X															X							
CCB4	1.00	1654		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	

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14
ANALYSIS RUN LOG

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2293

Instrument ID Number: HG4 Method: CV

Start Date: 10/16/00 End Date: 10/16/00

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1527																X									
S0	1.00	1529																X									
S1	1.00	1531																X									
S2	1.00	1533																X									
S5	1.00	1535																X									
S1	1.00	1537																X									
ICV1	1.00	1539																X									
ICB1	1.00	1541																X									
CCV1	1.00	1543																X									
CCB1	1.00	1545																X									
PBW1	1.00	1546																X									
LCSW1	1.00	1548																X									
ZZZZZZ	1.00	1612																									
ZZZZZZ	1.00	1622																									
T002293A-01	1.00	1623																X									
002293A-01D	1.00	1625																X									
T002293A-01D	1.00	1625																X									
002293A-01S	1.00	1627																X									
T002293A-01S	1.00	1627																X									
T002293A-01S	1.00	1630																									
T002293A-02	1.00	1632																X									
ZZZZZZ	1.00	1633																									
ZZZZZZ	1.00	1635																									
CCV2	1.00	1636																X									
CCB2	1.00	1638																X									
ZZZZZZ	1.00	1640																									
ZZZZZZ	1.00	1642																									
ZZZZZZ	1.00	1643																									
ZZZZZZ	1.00	1645																									
ZZZZZZ	1.00	1646																									
ZZZZZZ	1.00	1648																									
ZZZZZZ	1.00	1649																									
ZZZZZZ	1.00	1651																									

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14
ANALYSIS RUN LOG

Lab Name: STL

Contract:

Lab Code: STL Case No.:

SAS No.: SDG No.: A2293

Instrument ID Number: HG4

Method: CV

Start Date: 10/16/00

End Date: 10/16/00

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	1653																									
ZZZZZZ	1.00	1655																									
CCV3	1.00	1658																X									
CCB3	1.00	1700																X									

COVER PAGE - WET CHEM ANALYSES DATA PACKAGE

Lab Name: STL Contract:

Lab Code: STL Case No.: 2293A SAS No.: SDG No.: A2293

SOW No.:

Sample No.	Lab Sample ID
SW-09	002293A-01

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: David Madumadu Name: David Madumadu

Date: 10/19/00 Title: Section Leader

WET CHEM ANALYSIS

3
BLANKS

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2293A SAS No.: _____ SDG No.: A2293

Analyte	Initial Calib. Blank	C	Continuing Calibration Blank 1	C	2	C	3	C	Prepa-ration Blank	C	units	M
TSS									5.0	U	mg/L	G

FORM III - IN ILM03.0

5
DUPLICATES

SAMPLE NO.

MW-7

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2293A SAS No.: _____ SDG No.: A2293

% Solids for Sample: 0 % Solids for Duplicate: 0

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Units	M
TSS	20	93		106		13.1		mg/L	G

FORM V - WC

LABORATORY CONTROL SAMPLE

Lab Name: STL Contract:

Lab Code: STL Case No.: 2293A SAS No.: SDG No.: A2293

Analyte	True	LCS Found	%R	units	LCS Source
TSS	363.7	363	99.8	mg/L	

FORM VI - WC

HOLD TIME REPORT

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2293A SAS No.: _____ SDG No.: A2293

Analyte : TSS

Client Sample ID	Date Received	Date Prepped	Date Analyzed
SW-09	09/20/00	10/15/00	10/15/00 00:00
MW-7	10/11/00	10/15/00	10/15/00 00:00
002326A-06D		10/15/00	10/15/00 00:00