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FINAL GSIP SCOPE OF WORK
Volume 4
DOWNGRADIENT TRANSPORT DRAFT REPORT

Part III of III
Appendices F (cont'd) through I

INDUSTRI-PLEX SITE
WOBURN, MASSACHUSETTS

APRIL 1, 2002

Prepared for:

Industri-Plex Site Remedial Trust
Commerce Way
Woburn, Massachussetts

Prepared by:

ROUX ASSOCIATES, INC.
25 Corporate Drive, Suite 230
Burlington, Massachusetts 01803

ROUX

FINAL GSIP SCOPE OF WORK
Volume 4
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Burlington, Massachusetts 01803

ROUX

APPENDIX F

Analytical Lab Reports

continued

Post-Turnover Storm

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

January 15, 2001

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

Dear Mr. Mctiernan :

Please find enclosed the analytical results of 8 sample(s) received at our laboratory on December 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 #7000-2957A	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

7000-2957A
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. Due to an internal tracking error, sample "SW-09" was not used as the duplicate sample for TSS analysis. No other 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.

The spike recovery for the compounds, benzoic acid and 2,4,5-trichlorophenol, were outside recovery limits for SBLKTQFMS.

No other problems were encountered.

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
7000-2957A
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.	SBLKTQ	002957A-02	002957A-02MS	
Method Blank I.D.	SBLKTQ	SBLKTQ	SBLKTQ	
Quant. Factor	1.00	1.00	1.00	
Cyclohexanone	U	U	U	10
Phenol	U	U	23X	10
bis(2-Chloroethyl)ether	U	U	U	10
2-Chlorophenol	U	U	60X	10
1,3-Dichlorobenzene	U	U	U	10
1,4-Dichlorobenzene	U	U	31X	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	43X	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	37X	10
Naphthalene	U	U	U	10
4-Chloroaniline	U	U	U	10
Hexachlorobutadiene	U	U	U	10
4-Chloro-3-methylphenol	U	U	64X	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		12/20/00	12/20/00	
Date Extracted	12/22/00	12/22/00	12/22/00	
Date Analyzed	01/03/01	01/03/01	01/03/01	

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
7000-2957A
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.	SBLKTQ	002957A-02	002957A-02MS	
Method Blank I.D.	SBLKTQ	SBLKTQ	SBLKTQ	
Quant. Factor	1.00	1.00	1.00	
Acenaphthene	U	U	36X	10
2,4-Dinitrophenol	U	U	U	50
4-Nitrophenol	U	U	30JX	50
Dibenzofuran	U	U	U	10
2,4-Dinitrotoluene	U	U	39X	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	85EX	50
Phenanthrene	U	U	.3J	10
Anthracene	U	U	U	10
Di-n-butylphthalate	U	U	U	10
Fluoranthene	U	.6J	.7J	10
Pyrene	U	.4J	36X	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	.8J	1JB	1JB	10
Di-n-octylphthalate	U	.3J	.3J	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		12/20/00	12/20/00	
Date Extracted	12/22/00	12/22/00	12/22/00	
Date Analyzed	01/03/01	01/03/01	01/03/01	

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
7000-2957A
ROUX ASSOCIATES-MA
TCL SEMI-VOLATILE ORGANICS

Aqueous

All values are ug/L.

Client Sample I.D.	SW-09 MSD	FIELD BLANK		Quant. Limits with no Dilution
Lab Sample I.D.	002957A-02 MSD	002957A-04		
Method Blank I.D.	SBLKTQ	SBLKTQ		
Quant. Factor	1.00	1.00		
Cyclohexanone	U	U		10
Phenol	24X	U		10
bis(2-Chloroethyl)ether	U	U		10
2-Chlorophenol	61X	U		10
1,3-Dichlorobenzene	U	U		10
1,4-Dichlorobenzene	32X	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	45X	U		10
Hexachloroethane	U	U		10
Nitrobenzene	U	U		10
Isophorone	U	.9J		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	37X	U		10
Naphthalene	U	U		10
4-Chloroaniline	U	U		10
Hexachlorobutadiene	U	U		10
4-Chloro-3-methylphenol	62X	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	12/20/00	12/20/00		
Date Extracted	12/22/00	12/22/00		
Date Analyzed	01/03/01	01/03/01		

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
7000-2957A
ROUX ASSOCIATES-MA
TCL SEMI-VOLATILE ORGANICS

All values are ug/L.

Client Sample I.D.	SW-09 MSD	FIELD BLANK		
Lab Sample I.D.	002957A-02 MSD	002957A-04		Quant. Limits with no Dilution
Method Blank I.D.	SBLKTQ	SBLKTQ		
Quant. Factor	1.00	1.00		
Acenaphthene	35X	U		10
2,4-Dinitrophenol	U	U		50
4-Nitrophenol	30JX	U		50
Dibenzofuran	U	U		10
2,4-Dinitrotoluene	37X	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	77X	U		50
Phenanthrene	.4J	U		10
Anthracene	U	U		10
Di-n-butylphthalate	U	U		10
Fluoranthene	.9J	U		10
Pyrene	35X	U		10
Butylbenzylphthalate	U	U		10
3,3'-Dichlorobenzidine	U	U		20
Benzo(a)anthracene	U	U		10
Chrysene	.3J	U		10
bis(2-Ethylhexyl)phthalate	1JB	1JB		10
Di-n-octylphthalate	.4J	U		10
Benzo(b)fluoranthene	.3J	U		10
Benzo(k)fluoranthene	.4J	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	12/20/00	12/20/00		
Date Extracted	12/22/00	12/22/00		
Date Analyzed	01/03/01	01/03/01		

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
7000-2957A
ROUX ASSOCIATES-MA
MISCELLANEOUS SEMI-VOLATILE ORGANICS

All values are ug/L.

Client Sample I.D.	Method Blank	SW-01	SW-10	Quant. Limits with no Dilution
Lab Sample I.D.	SBLKTQ	002957A-01	002957A-03	
Method Blank I.D.	SBLKTQ	SBLKTQ	SBLKTQ	
Quant. Factor	1.00	1.00	1.00	
Cyclohexanone	U	1J	.9J	10
4-Methylphenol	U	U	U	10
Naphthalene	U	U	U	10
2-Methylnaphthalene	U	U	U	10
Acenaphthylene	U	.5J	.6J	10
Acenaphthene	U	U	U	10
Fluorene	U	U	U	10
Diethylphthalate	U	U	U	10
Phenanthrene	U	.4J	.5J	10
Anthracene	U	U	U	10
Fluoranthene	U	.6J	.8J	10
Pyrene	U	.4J	.7J	10
Benzo(a)anthracene	U	U	U	10
Chrysene	U	U	.5J	10
bis(2-Ethylhexyl)phthalate	.8J	1JB	2JB	10
Benzo(b)fluoranthene	U	U	.4J	10
Benzo(k)fluoranthene	U	U	.5J	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		12/20/00	12/20/00	
Date Extracted	12/22/00	12/22/00	12/22/00	
Date Analyzed	01/03/01	01/03/01	01/03/01	

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 Aqueous
7000-2957A
ROUX ASSOCIATES-MA
TAL METALS (Dissolved)

All values are ug/L.

Client Sample I.D.	SW-01	SW-09	SW-09 D	SW-09 S
Lab Sample I.D.	002957A-01	002957A-02	002957A-02D	002957A-02S
Aluminum	NR	NR	NR	NR
Antimony	NR	NR	NR	NR
Arsenic	3.5U	3.9B	3.5U	41.4
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

Aqueous

TABLE AS-1.1
7000-2957A
ROUX ASSOCIATES-MA
TAL METALS (Dissolved)

All values are ug/L.

Client Sample I.D.	SW-10	FIELD BLANK		
Lab Sample I.D.	002957A-03	002957A-04		
Aluminum	NR	NR		
Antimony	NR	NR		
Arsenic	3.5U	3.5U		
Barium	NR	NR		
Beryllium	NR	NR		
Cadmium	NR	NR		
Calcium	NR	NR		
Chromium	NR	NR		
Cobalt	NR	NR		
Copper	NR	NR		
Iron	NR	NR		
Lead	NR	NR		
Magnesium	NR	NR		
Manganese	NR	NR		
Mercury	NR	NR		
Nickel	NR	NR		
Potassium	NR	NR		
Selenium	NR	NR		
Silver	NR	NR		
Sodium	NR	NR		
Thallium	NR	NR		
Vanadium	NR	NR		
Zinc	NR	NR		

See Appendix for qualifier definitions

Aqueous

TABLE AS-1.2
7000-2957A
ROUX ASSOCIATES-MA
TAL METALS (Total)

All values are ug/L.

Client Sample I.D.	SW-01	SW-09	SW-09 D	SW-09 S
Lab Sample I.D.	002957A-01	002957A-02	002957A-02D	002957A-02S
Aluminum	NR	204.	190.B	2180
Antimony	NR	5.0U	5.0U	496.
Arsenic	6.3B	9.0B	11.0	47.7
Barium	NR	28.1B	28.7B	1810
Beryllium	NR	1.0U	1.0U	46.6
Cadmium	NR	1.0U	1.0U	4.8B
Calcium	NR	32700	32800	NR
Chromium	17.1	2.0U	2.0U	178.
Cobalt	NR	6.5B	7.0B	453.
Copper	NR	6.6B	7.0B	243.
Iron	NR	1500	1500	2380
Lead	21.6	3.5	3.4	21.3
Magnesium	NR	5270	5260	NR
Manganese	NR	357.	356.	796.
Mercury	0.10U	0.10U	0.10U	1.1
Nickel	NR	2.9B	2.7B	468.
Potassium	NR	8750	8720	NR
Selenium	NR	4.0U	4.0U	8.4
Silver	NR	2.0U	2.0U	46.1
Sodium	NR	81200	82200	NR
Thallium	NR	10.0U	10.0U	47.7
Vanadium	NR	2.0U	2.0U	448.
Zinc	NR	187.	186.	643.

See Appendix for qualifier definitions

Aqueous

TABLE AS-1.3
7000-2957A
ROUX ASSOCIATES-MA
TAL METALS (Total)

All values are ug/L.

Client Sample I.D.	SW-10	FIELD BLANK		
Lab Sample I.D.	002957A-03	002957A-04		
Aluminum	NR	50.0U		
Antimony	NR	5.0U		
Arsenic	4.0B	3.5U		
Barium	NR	3.0B		
Beryllium	NR	1.0U		
Cadmium	NR	1.0U		
Calcium	NR	18000		
Chromium	16.1	2.0U		
Cobalt	NR	2.0U		
Copper	NR	2.0U		
Iron	NR	50.0U		
Lead	20.4	2.0U		
Magnesium	NR	2180B		
Manganese	NR	3.9B		
Mercury	0.10U	0.10U		
Nickel	NR	2.0U		
Potassium	NR	454.B		
Selenium	NR	4.0U		
Silver	NR	2.0U		
Sodium	NR	2700B		
Thallium	NR	10.0U		
Vanadium	NR	2.0U		
Zinc	NR	7.8B		

See Appendix for qualifier definitions

WET CHEM ANALYSIS DATA SHEET

SAMPLE NO.

SW-01

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2957A SAS No.: _____ SDG No.: A2957

Matrix (soil/water): WATER Lab Sample ID: 002957A-01

% Solids: 0 Date Received: 12/20/00

CAS No.	Analyte	Concentration	C	Units	Q	M
	TSS	13.6		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.: 2957A SAS No.: _____ SDG No.: A2957

Matrix (soil/water): WATER Lab Sample ID: 002957A-02

% Solids: 0 Date Received: 12/20/00

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.: 2957A SAS No.: _____ SDG No.: A2957

Matrix (soil/water): WATER Lab Sample ID: 002957A-03

% Solids: 0 Date Received: 12/20/00

CAS No.	Analyte	Concentration	C	Units	Q	M
	TSS	25.6		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
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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	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

7000-2957A
ROUX ASSOCIATES-MA
SAMPLE SUMMARY

CLIENT ID	LAB ID	MATRIX	DATE COLLECTED	DATE RECEIVED
SW-01	002957A-01	WATER	12/18/00	12/20/00
SW-09	002957A-02	WATER	12/18/00	12/20/00
SW-09	002957A-02D	WATER	12/18/00	12/20/00
SW-09	002957A-02MS	WATER	12/18/00	12/20/00
SW-09	002957A-02MSD	WATER	12/18/00	12/20/00
SW-09	002957A-02S	WATER	12/18/00	12/20/00
SW-10	002957A-03	WATER	12/18/00	12/20/00
FIELD BLANK	002957A-04	WATER	12/18/00	12/20/00

STL CT ANALYTICAL SUMMARY

Client ID: FIELD BLANK, SW-01, SW-09, SW-10
Job Number: 7000-2957A

Date: 1/16/101

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

ROUX 1090-2957A CHAIN OF CUSTODY

№ 04817

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

ANALYSES

PROJECT NAME: ISRT-INDUSTRIPLEX

PROJECT NUMBER: 06626 M32

PROJECT LOCATION: WOBURN, MA

PROJECT MANAGER: LARRY McIERNAN

SAMPLER(S): MARTIN HAINES

SAMPLE DESIGNATION / LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	TSS	TCL SVOC + Cyclo Hexanone	Dissolved Arsenic	Total As, Cr, Pb, Hg	TAL Metals	PAH, Diethyl phthalate, 4 Methyl phenol, bis 2 ethylhexyl phthalate, Cyclo Hexanone	TOTAL BOTTLES	NOTES
SW-01 01	10/18/00	15:15	SW	1		1	1		2	5	
SW-09 02	10/18/00	13:45		2	6	3		3		14	
SW-10 03	10/18/00	15:20		1		1	1		2	5	
FIELD BLANK 04	10/18/00	14:30			2	1		1		4	
	12										
	M										

40

PASSED RAD SCREEN

RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N	RECEIVED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N
[signature]	ROUX	12/19/00	9:30		[signature]	STL	12/19/00	9:30	
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N	RECEIVED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N
					[signature] 12/20/00	1015 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: DELIVERABLES for TIER II DATA VALIDATION

CHAINOF CDR 12AUG98

SAMPLE RECEIPT CHECKLIST

STL CT Job No. 2000-295TA Date Received: 12/20/00

Client: Rexx Project: _____

A. Preliminary Examination

Cooler opened by: [illegible] Signature: _____

1. Did cooler(s) come with a shipping airbill?..... Yes No N/A

   Name of courier and/or airbill no. FE

2. Were custody seals on outside of cooler(s)?..... Yes No N/A

3. Were custody seals tamper evident?..... Yes No N/A

   Seal Date _____

4. Were custody seals intact upon arrival to lab?..... Yes No N/A

5. Were samples screened for radioactivity and COC stamped?..... Yes No N/A

6. Were COCs included, filled out properly in ink, and signed in the field?... Yes No N/A

7. Were COCs signed and dated properly upon lab receipt?..... Yes No N/A

8. If required, did cooler(s) show evidence of cooling?..... Yes No N/A

   Type of coolant used: Loose ice Bagged ice Ice packs Other: _____

   Temperature of cooler(s) on receipt: 4C

   Source of temperature reading (check one) Temp blank Sample

9. If necessary, was the lab notified of any short holding times?..... Yes No N/A

10. Initial and date this form to acknowledge receipt of cooler(s): (initials) [illegible] (Date) 12/20/00

B. Log-in Date of login: 12/20/00

Logged in by: [illegible] Signature: _____

10. Describe type of packing in cooler(s): Bubble wrap Vermiculite Other _____

12. Did all bottles arrive intact with legible labels in good condition?..... Yes No N/A

13. Was all required bottle label information complete?..... Yes No N/A

14. Did all bottle labels agree with COCs?..... Yes No N/A

15. Were samples checked for residual chlorine and correct preservatives? Yes No N/A

    Was Preservative Log filled out Yes No N/A

16. Was enough volume submitted for the indicated tests?..... Yes No N/A

17. Were bubbles present in any VOA vials?..... Yes No N/A

    If yes, list by sample number _____

18. If necessary, has CAR been issued to QA manager?..... Yes No N/A

STL Form # SMF01700.CT

Severn T · Connecticut
Internal Chain-of-Custody

Client: Roux

STL Job #: 7000-2957A

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

Airbill# _____

Field C-O-C: present / absent

Date Received: 12/20/00

Sample #s: 01-04

Locations: 92

Laboratory Sample #	Relinquished by	Accepted by	Date	Time	Reason	Relinquished by	Accepted by	Date	Time
1-3	ML	SW	12/20	1r	TSS,				
1,2,3,4	ML	SBN	12/22/00	12:00	BNA				
1-4	ML	[illegible]	1/8	1:00	MTLS	[illegible]	ML	1/9	1408
1-4	ML	GB	1/9	1200	HB	GB	[illegible]	1/10	1000

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: ROLIX

JOB NO: 2957A

SAMPLE IN (Extractions)					SAMPLE IN (Extractions)				
Sample(s)	Date	Time	Sign.	Location	Sample(s)	Date	Time	Sign.	Location
2ac 01-04	01/02/01	19:05	[illegible]	29					

SAMPLE OUT					SAMPLE IN			
Sample(s)	Date	Time	Code	Sign.	Date	Time	Location	Sign.
01-04	01/03/01	1030	AN	EM	01/03/01	1130	29	EM

Codes: SC = Screening AN = Analysis

Verified By: [illegible]

Date: 1-8-01

Lab Form: SMF01201.CT

Committed To *Your* Success

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

CHAIN OF CUSTODY
ATOMIC SPECTROSCOPY DEPARTMENT

Job Number 7000 2957A Sample Numbers 1-4

(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			
	Daly Colon	1.8.01	(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 Felumbels	1/9/01	ICP
			FLAME
			FURN
			MERCURY
	Chemist	Date(s)	

I have reviewed and authorize the release of this job:

Complete [signature] 1/12/01
Supervisor Date

Batch Assignment _____

0024

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 002957A Sample Numbers 01-04

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
	Chemist	01-09-00 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
	Chemist	01-10-01 Date(s)	MERCURY

I have reviewed and authorize the release of this job:

Complete _____ Supervisor 1/12/01 Date

Batch Assignment _____

IEA / CT
LABORATORY CHRONICLE

SAMPLE PREPARATION AND ANALYSIS SUMMARY
INORGANIC ANALYSIS

JOB #: 7000-2957A

SAMPLE ID	MATRIX	LIST REQUESTED	DATE RECEIVED	DATE DIGESTED	DATE ANALYZED
SW-01	WATER	AS-SW846	12/20/00	1/8/01	1/9/01
SW-01	WATER	AS-SW846-D	12/20/00		
SW-01	WATER	CR-SW846	12/20/00		
SW-01	WATER	HG-SW846	12/20/00		
SW-01	WATER	PB-SW846	12/20/00		
SW-09	WATER	AS-SW846-D	12/20/00		
SW-09	WATER	MET-SW846-TAL	12/20/00		
SW-10	WATER	AS-SW846	12/20/00		
SW-10	WATER	AS-SW846-D	12/20/00		
SW-10	WATER	CR-SW846	12/20/00		
SW-10	WATER	HG-SW846	12/20/00		
SW-10	WATER	PB-SW846	12/20/00		
FIELD BLANK	WATER	AS-SW846-D	12/20/00		
FIELD BLANK	WATER	MET-SW846-TAL	12/20/00		

Section Supervisor (signature) [illegible]

Review & Approval (printed name) D. Willett

(Date) 1/12/01

QC Supervisor (signature) _____

Review & Approval (printed name) _____

(Date) ___/___/___

2C
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2957A SAS No.: _____ SDG No.: A2957

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 (PHL)#	S5 (2FP)#	S6 (TBP)#	S7 (2CP)#	S8 (DCB)#	TOT OUT
01	SBLKTQ	71	78	50	23	34	66			0
02	SBLKTQFMS	89	88	68	40	52	80			0
03	FIELD BLANK	82	67	50	21	31	69			0
04	SW-01	98	76	50	26	36	72			0
05	SW-09	90	74	49	26	36	74			0
06	SW-09MS	85	66	45	26	36	73			0
07	SW-09MSD	86	66	45	27	37	69			0
08	SW-10	96	78	54	25	33	69			0
09										
10										
11										
12										
13										
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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.: 2957A SAS No.: _____ SDG No.: A2957

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	23	23	12-110
2-Chlorophenol	100	0	60	60	27-123
1,4-Dichlorobenzene	50	0	31	62	36- 97
N-Nitroso-di-n-prop.(1)	50	0	43	86	41-116
1,2,4-Trichlorobenzene	50	0	37	74	39- 98
4-Chloro-3-methylphenol	100	0	64	64	23- 97
Acenaphthene	50	0	36	72	46-118
4-Nitrophenol	100	0	30	30	10- 80
2,4-Dinitrotoluene	50	0	39	78	24- 96
Pentachlorophenol	100	0	85	85	9-103
Pyrene	50	.4	36	71	26-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	100	24	24	4	42	12-110
2-Chlorophenol	100	61	61	2	40	27-123
1,4-Dichlorobenzene	50	32	64	3	28	36- 97
N-Nitroso-di-n-prop.(1)	50	45	90	4	38	41-116
1,2,4-Trichlorobenzene	50	37	74	0	28	39- 98
4-Chloro-3-methylphenol	100	62	62	3	42	23- 97
Acenaphthene	50	35	70	3	31	46-118
4-Nitrophenol	100	30	30	0	50	10- 80
2,4-Dinitrotoluene	50	37	74	5	38	24- 96
Pentachlorophenol	100	77	77	10	50	9-103
Pyrene	50	35	69	3	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.: 2957A SAS No.: _____ SDG No.: A2957

Matrix Spike - EPA Sample No.: SBLKTQ

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	34	85	49-133
2-Chlorophenol	40	0	39	98	60-112
1,3-Dichlorobenzene	40	0	35	88	18-143
1,4-Dichlorobenzene	40	0	33	82	21-138
Benzyl alcohol	40	0	30	75	39-117
1,2-Dichlorobenzene	40	0	38	95	21-143
2-Methylphenol	40	0	22	55	49-91
bis(2-Chloroisopropyl)ether	40	0	36	90	54-130
4-Methylphenol	40	0	21	52	48-95
N-Nitroso-di-n-propylamine	40	0	34	85	46-129
Hexachloroethane	40	0	33	82	8-144
Nitrobenzene	40	0	36	90	46-141
Isophorone	40	0	37	92	52-140
2-Nitrophenol	40	0	39	98	69-123
2,4-Dimethylphenol	40	0	28	70	62-121
Benzoic acid	120	0	45	38 X	0-25
bis(2-Chloroethoxy)methane	40	0	37	92	53-142
2,4-Dichlorophenol	40	0	37	92	66-122
1,2,4-Trichlorobenzene	40	0	34	85	30-142
Naphthalene	40	0	35	88	43-144
4-Chloroaniline	40	0	35	88	48-150
Hexachlorobutadiene	40	0	35	88	5-169
4-Chloro-3-methylphenol	40	0	37	92	63-119
2-Methylnaphthalene	40	0	36	90	37-137
Hexachlorocyclopentadiene	40	0	21	52	1-139
2,4,6-Trichlorophenol	40	0	37	92	70-121
2,4,5-Trichlorophenol	40	0	26	65 X	71-124
2-Chloronaphthalene	40	0	46	115	52-163
2-Nitroaniline	40	0	38	95	60-139

Column to be used to flag recovery with an asterisk

* Values outside of QC limits.

Spike Recovery: 02 out of 65 outside limits

COMMENTS: JJ 1.8.01

FORM III SV-1

3C
WATER SEMIVOLATILE SPIKE/SPIKE DUPLICATE RECOVERY SUMMARY

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2957A SAS No.: _____ SDG No.: A2957

Matrix Spike - EPA Sample No.: SBLKTQ

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	SPIKE CONCENTRATION (ug/L)	SPIKE % REC #	QC. LIMITS REC.
Dimethylphthalate	40	0	36	90	64-137
Acenaphthylene	40	0	32	80	52-132
2,6-Dinitrotoluene	40	0	37	92	60-142
3-Nitroaniline	40	0	38	95	65-162
Acenaphthene	40	0	35	88	56-144
2,4-Dinitrophenol	40	0	44	110	70-139
4-Nitrophenol	40	0	22	55	21-65
Dibenzofuran	40	0	36	90	57-136
2,4-Dinitrotoluene	40	0	32	80	57-131
Diethylphthalate	40	0	31	78	62-132
4-Chlorophenyl-phenylether	40	0	34	85	55-136
Fluorene	40	0	34	85	59-131
4-Nitroaniline	40	0	39	98	67-155
4,6-Dinitro-2-methylphenol	40	0	49	122	77-164
N-Nitrosodiphenylamine (1)	40	0	42	105	67-149
4-Bromophenyl-phenylether	40	0	42	105	57-150
Hexachlorobenzene	40	0	43	108	53-153
Pentachlorophenol	40	0	42	105	63-125
Phenanthrene	40	0	40	100	83-124
Anthracene	40	0	42	105	66-138
Di-n-butylphthalate	40	0	41	102	65-146
Fluoranthene	40	0	44	110	63-145
Pyrene	40	0	41	102	66-152
Butylbenzylphthalate	40	0	44	110	64-158
3,3'-Dichlorobenzidine	40	0	41	102	69-159
Benzo(a)anthracene	40	0	38	95	62-151
Chrysene	40	0	35	88	72-141
bis(2-Ethylhexyl)phthalate	40	.8	37	90	63-148
Di-n-octylphthalate	40	0	39	98	65-154
Benzo(b)fluoranthene	40	0	40	100	42-172

Column to be used to flag recovery with an asterisk

* Values outside of QC limits.

Spike Recovery: 02 out of 65 outside limits

COMMENTS: JD 01-08-01

FORM III SV-1

3C

WATER SEMIVOLATILE SPIKE/SPIKE DUPLICATE RECOVERY SUMMARY

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2957A SAS No.: _____ SDG No.: A2957

Matrix Spike - EPA Sample No.: SBLKTQ

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	39	98	68-147
Indeno(1,2,3-cd)pyrene	40	0	38	95	52-157
Dibenzo(a,h)anthracene	40	0	37	92	25-159
Benzo(g,h,i)perylene	40	0	39	98	56-166
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					-
					-

Column to be used to flag recovery with an asterisk

* Values outside of QC limits.

Spike Recovery: 02 out of 65 outside limits

COMMENTS: JW 1-8-01

FORM III SV-1

4B
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLKTQ

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2957A SAS No.: _____ SDG No.: A2957

Lab File ID: >Q0659 Lab Sample ID: SBLKTQ

Instrument ID: HP5971Q Date Extracted:12/22/00

Matrix: (soil/water) WATER Date Analyzed: 01/03/01

Level:(low/med) LOW Time Analyzed:1033

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SBLKTQFMS	SBLKTQFMS	>Q0660	01/03/01
02	FIELD BLANK	002957A-04	>Q0663	01/03/01
03	SW-01	002957A-01	>Q0664	01/03/01
04	SW-09	002957A-02	>Q0665	01/03/01
05	SW-09MS	002957A-02MS	>Q0666	01/03/01
06	SW-09MSD	002957A-02MSD	>Q0667	01/03/01
07	SW-10	002957A-03	>Q0668	01/03/01
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
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19				
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30				

COMMENTS: _____

FORM IV SV

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2957A SAS No.: _____ SDG No.: A2957

Lab File ID: Q0651 DFTPP Injection Date:01/02/01

Instrument ID: HP5971Q DFTPP Injection Time:1602

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	45.8
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	57.7
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	50.6
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	21.1
365	Greater than 1.0% of mass 198	2.25
441	Present, but less than mass 443	9.2
442	40.0 - 100.0% of mass 198	62.4
443	17.0 - 23.0% of mass 442	12.4 (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	SSTD020M5	SSTD020M5	>Q0652	01/02/01	1638
02	SSTD050M6	SSTD050M6	>Q0653	01/02/01	1722
03	SSTD080M7	SSTD080M7	>Q0654	01/02/01	1806
04	SSTD120M8	SSTD120M8	>Q0655	01/02/01	1850
05	SSTD160M9	SSTD160M9	>Q0656	01/02/01	1934
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM V SV

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2957A SAS No.: _____ SDG No.: A2957

Lab File ID: Q0658 DFTPP Injection Date:01/03/01

Instrument ID: HP5971Q DFTPP Injection Time:0950

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	50.8
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	64.1
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	55.6
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.4
275	10.0 - 30.0% of mass 198	20.8
365	Greater than 1.0% of mass 198	2.06
441	Present, but less than mass 443	2.5
442	40.0 - 100.0% of mass 198	52.2
443	17.0 - 23.0% of mass 442	10.1 (19.4)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050G1	SSTD050G1	>Q0658	01/03/01	0950
02	SBLKTQ	SBLKTQ	>Q0659	01/03/01	1033
03	SBLKTQFMS	SBLKTQFMS	>Q0660	01/03/01	1118
04	FIELD BLANK	002957A-04	>Q0663	01/03/01	1329
05	SW-01	002957A-01	>Q0664	01/03/01	1413
06	SW-09	002957A-02	>Q0665	01/03/01	1458
07	SW-09MS	002957A-02MS	>Q0666	01/03/01	1541
08	SW-09MSD	002957A-02MSD	>Q0667	01/03/01	1625
09	SW-10	002957A-03	>Q0668	01/03/01	1709
10					
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22					

FORM V SV

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2957A SAS No.: _____ SDG No.: A2957

Lab File ID: (Standard): >Q0658 Date Analyzed:01/03/01

Instrument ID: HP5971Q Time Analyzed:0950

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	76779	10.25	296924	13.22	173602	17.10
	UPPER LIMIT	153558	10.75	593848	13.72	347204	17.60
	LOWER LIMIT	38390	9.75	148462	12.72	86801	16.60
	EPA SAMPLE NO.						
01	SBLKTQ	103147	10.26	424590	13.21	241948	17.10
02	SBLKTQFMS	92479	10.26	348719	13.22	206827	17.11
03	FIELD BLANK	121453	10.26	407106	13.22	264979	17.11
04	SW-01	116506	10.26	381775	13.22	231590	17.11
05	SW-09	121595	10.26	435021	13.22	243717	17.11
06	SW-09MS	115573	10.27	387032	13.22	246107	17.11
07	SW-09MSD	119242	10.27	411671	13.22	264804	17.11
08	SW-10	134335	10.26	441944	13.23	257191	17.11
09							
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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.

FORM VIII SV-1

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2957A SAS No.: _____ SDG No.: A2957

Lab File ID: (Standard): >Q0658 Date Analyzed:01/03/01

Instrument ID: HP5971Q Time Analyzed:0950

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	360397	20.18	256895	25.63	282960	28.78
	UPPER LIMIT	720794	20.68	513790	26.13	565920	29.28
	LOWER LIMIT	180198	19.68	128448	25.13	141480	28.28
	EPA SAMPLE NO.						
01	SBLKTQ	412459	20.17	385380	25.62	343840	28.78
02	SBLKTQFMS	364008	20.19	267818	25.64	272840	28.79
03	FIELD BLANK	449819	20.18	434432	25.62	384832	28.78
04	SW-01	381279	20.19	314963	25.63	285007	28.78
05	SW-09	396790	20.18	319067	25.62	302425	28.79
06	SW-09MS	375374	20.18	332869	25.62	306298	28.79
07	SW-09MSD	414898	20.18	344383	25.63	291519	28.79
08	SW-10	416000	20.18	308221	25.63	260175	28.79
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.

page 1 of 1

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.: 2957A SAS No.: _____ SDG No.: A2957

Matrix: (soil/water) WATER Lab Sample ID: 002957A-01

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >Q0664

Level: (low/med) LOW Date Received: 12/20/00

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 12/22/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/03/01

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	1	J
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	.5	J
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
84-66-2	Diethylphthalate	10	U
85-01-8	Phenanthrene	.4	J
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	.6	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	1	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

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FIELD BLANK

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2957A SAS No.: _____ SDG No.: A2957

Matrix: (soil/water) WATER Lab Sample ID: 002957A-04

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >Q0663

Level: (low/med) LOW Date Received: 12/20/00

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 12/22/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/03/01

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	.9	J
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

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-09

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2957A SAS No.: _____ SDG No.: A2957

Matrix: (soil/water) WATER Lab Sample ID: 002957A-02

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >Q0665

Level: (low/med) LOW Date Received: 12/20/00

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 12/22/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/03/01

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.

SW-09

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2957A SAS No.: _____ SDG No.: A2957

Matrix: (soil/water) WATER Lab Sample ID: 002957A-02

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >Q0665

Level: (low/med) LOW Date Received: 12/20/00

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 12/22/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/03/01

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	.6	J
129-00-0	Pyrene	.4	J
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	JB
117-84-0	Di-n-octylphthalate	.3	J
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-10

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2957A SAS No.: _____ SDG No.: A2957

Matrix: (soil/water) WATER Lab Sample ID: 002957A-03

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >Q0668

Level: (low/med) LOW Date Received: 12/20/00

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 12/22/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/03/01

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	.9	J
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	.6	J
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
84-66-2	Diethylphthalate	10	U
85-01-8	Phenanthrene	.5	J
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	.8	J
129-00-0	Pyrene	.7	J
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	.5	J
117-81-7	bis(2-Ethylhexyl)phthalate	2	JB
205-99-2	Benzo(b)fluoranthene	.4	J
207-08-9	Benzo(k)fluoranthene	.5	J
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

6B

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2957A SAS No.: _____ SDG No.: A2957

Instrument ID: HP5971Q Calibration Date(s):01/02/01 _____

Calibration Times: 1638 1934

LAB FILE ID: RRF20 = >Q0652 RRF50 = >Q0653
RRF80 = >Q0654 RRF120= >Q0655 RRF160= >Q0656

COMPOUND		RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD	
Phenol	*	2.095	1.965	1.932	2.022	1.986	2.000	3.1	*
bis(2-Chloroethyl)ether	*	1.276	1.162	1.113	1.132	1.086	1.154	6.4	*
2-Chlorophenol	*	1.435	1.252	1.208	1.248	1.229	1.274	7.2	*
1,3-Dichlorobenzene	*	1.670	1.496	1.373	1.514	1.439	1.498	7.4	*
1,4-Dichlorobenzene	*	1.464	1.327	1.291	1.339	1.287	1.342	5.4	*
Benzyl alcohol	*	1.075	1.044	1.045	1.152	1.124	1.088	4.4	*
1,2-Dichlorobenzene	*	1.449	1.210	1.144	1.141	1.078	1.204	12.0	*
2-Methylphenol	*	1.400	1.329	1.262	1.421	1.391	1.361	4.8	*
2,2'-oxybis(1-Chloropropane)	*	2.389	2.059	2.023	2.060	1.987	2.104	7.7	*
4-Methylphenol	*	1.606	1.503	1.431	1.540	1.494	1.515	4.2	*
N-Nitroso-di-n-propylamine	*	1.231	1.075	1.029	1.078	1.056	1.094	7.2	*
Hexachloroethane	*	0.663	0.589	0.597	0.606	0.577	0.606	5.5	*
Nitrobenzene	*	0.448	0.405	0.387	0.391	0.373	0.401	7.2	*
Isophorone	*	0.903	0.890	0.823	0.893	0.848	0.871	3.9	*
2-Nitrophenol	*	0.224	0.232	0.227	0.240	0.229	0.230	2.7	*
2,4-Dimethylphenol	*	0.388	0.368	0.273	0.349	0.333	0.342	12.8	*
Benzoic acid	*	0.251	0.264	0.266	0.315	0.302	0.280	9.8	*
bis(2-Chloroethoxy)methane	*	0.508	0.457	0.429	0.456	0.432	0.456	6.9	*
2,4-Dichlorophenol	*	0.337	0.321	0.306	0.307	0.293	0.313	5.4	*
1,2,4-Trichlorobenzene	*	0.336	0.311	0.291	0.294	0.273	0.301	7.9	*
Naphthalene	*	0.992	0.934	0.885	0.892	0.843	0.909	6.2	*
4-Chloroaniline	*	0.475	0.470	0.378	0.462	0.422	0.441	9.3	*
Hexachlorobutadiene	*	0.175	0.160	0.152	0.154	0.145	0.157	7.2	*
4-Chloro-3-methylphenol	*	0.426	0.405	0.375	0.390	0.375	0.394	5.5	*
2-Methylnaphthalene	*	0.728	0.629	0.562	0.550	0.508	0.595	14.4	*
Hexachlorocyclopentadiene	*	0.357	0.340	0.326	0.351	0.331	0.341	3.8	*
2,4,6-Trichlorophenol	*	0.394	0.382	0.361	0.393	0.379	0.382	3.5	*
2,4,5-Trichlorophenol	*	0.419	0.380	0.366	0.380	0.353	0.380	6.5	*
2-Chloronaphthalene	*	1.104	0.960	0.901	0.907	0.861	0.947	10.0	*
2-Nitroaniline	*	0.476	0.454	0.438	0.485	0.469	0.464	4.0	*
Dimethylphthalate	*	1.754	1.599	1.490	1.563	1.460	1.573	7.3	*
Acenaphthylene	*	2.001	1.720	1.608	1.580	1.507	1.683	11.5	*
2,6-Dinitrotoluene	*	0.396	0.379	0.368	0.383	0.370	0.379	3.0	*
3-Nitroaniline	*	0.468	0.465	0.437	0.486	0.470	0.465	3.8	*
Acenaphthene	*	1.079	1.008	0.943	0.977	0.934	0.988	5.9	*
2,4-Dinitrophenol	*	0.198	0.228	0.237	0.276	0.265	0.241	12.8	*
4-Nitrophenol	*	0.227	0.226	0.224	0.258	0.243	0.236	6.2	*

* 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.: 2957A SAS No.: _____ SDG No.: A2957

Instrument ID: HP5971Q Calibration Date(s):01/02/01 _____

Calibration Times: 1638 1934

LAB FILE ID: RRF20 = >Q0652 RRF50 = >Q0653
RRF80 = >Q0654 RRF120= >Q0655 RRF160= >Q0656

COMPOUND		RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD	
Dibenzofuran	*	1.770	1.646	1.518	1.556	1.472	1.592	7.4	*
2,4-Dinitrotoluene	*	0.490	0.477	0.454	0.500	0.481	0.480	3.6	*
Diethylphthalate	*	1.905	1.694	1.572	1.595	1.518	1.657	9.2	*
4-Chlorophenyl-phenyl Ether	*	0.665	0.565	0.528	0.539	0.508	0.561	11.0	*
Fluorene	*	1.378	1.173	1.069	1.088	1.030	1.148	12.1	*
4-Nitroaniline	*	0.451	0.441	0.419	0.464	0.451	0.445	3.8	*
4,6-Dinitro-2-methylphenol	*	0.150	0.149	0.147	0.152	0.143	0.148	2.3	*
N-Nitrosodiphenylamine	*	0.541	0.452	0.417	0.416	0.386	0.442	13.5	*
4-Bromophenyl-phenylether	*	0.208	0.183	0.174	0.168	0.156	0.178	11.0	*
Hexachlorobenzene	*	0.245	0.217	0.197	0.192	0.178	0.206	12.6	*
Pentachlorophenol	*	0.164	0.157	0.151	0.150	0.139	0.152	6.1	*
Phenanthrene	*	0.985	0.883	0.848	0.828	0.791	0.867	8.5	*
Anthracene	*	1.023	0.884	0.804	0.767	0.711	0.838	14.4	*
Carbazole	*	1.119	0.985	0.917	0.900	0.826	0.949	11.6	*
Di-n-butylphthalate	*	1.764	1.477	1.329	1.232	1.143	1.389	17.5	*
Fluoranthene	*	1.306	1.159	1.039	0.989	0.940	1.087	13.5	*
Pyrene	*	1.678	1.551	1.414	1.570	1.361	1.515	8.4	*
Butylbenzylphthalate	*	1.074	0.950	0.859	0.939	0.851	0.935	9.6	*
3,3'-Dichlorobenzidine	*	0.608	0.589	0.607	0.570	0.520	0.579	6.3	*
Benzo(a)anthracene	*	1.225	1.053	0.968	0.990	0.922	1.032	11.4	*
Chrysene	*	1.040	0.993	0.964	0.995	0.930	0.984	4.1	*
bis(2-Ethylhexyl)phthalate	*	1.269	1.070	0.949	0.961	0.848	1.019	15.7	*
Di-n-octylphthalate	*	2.000	1.942	1.805	2.144	1.890	1.956	6.5	*
Benzo(b)fluoranthene	*	1.290	1.343	1.230	1.489	1.449	1.360	7.9	*
Benzo(k)fluoranthene	*	1.172	0.955	0.903	0.783	0.653	0.893	21.8	*
Benzo(a)pyrene	*	1.235	1.163	1.092	1.180	1.075	1.149	5.7	*
Indeno(1,2,3-cd)pyrene	*	1.289	1.146	1.096	1.243	1.179	1.191	6.4	*
Dibenz(a,h)anthracene	*	1.114	0.976	0.895	1.007	0.969	0.992	8.0	*
Benzo(g,h,i)perylene	*	1.209	1.066	0.981	1.172	1.092	1.104	8.1	*
Cyclohexanone		1.060	1.004	0.568	0.962	0.886	0.896	21.6	
Nitrobenzene-D5	*	0.460	0.439	0.420	0.442	0.424	0.437	3.6	*
2-Fluorobiphenyl	*	1.237	1.118	1.045	1.042	0.987	1.086	8.9	*
Terphenyl-D14	*	1.248	1.134	1.030	1.144	1.007	1.113	8.7	*
Phenol-D5	*	2.218	2.301	2.270	2.522	2.474	2.357	5.6	*
2-Fluorophenol	*	1.486	1.530	1.608	1.845	1.808	1.655	9.8	*
2,4,6-Tribromophenol	*	0.212	0.206	0.186	0.207	0.197	0.202	5.1	*

(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.: 2957A SAS No.: _____ SDG No.: A2957

Instrument ID: HP5971Q Calibration Date: 01/03/01 Time: 0950

Lab File ID: >Q0658 Init. Calib. Date(s): 01/02/01 _____

Init. Calib. Times: 1638 1934

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Phenol	2.000	2.092		4.6	20.0
bis(2-Chloroethyl)ether	1.154	1.196		3.6	
2-Chlorophenol	1.274	1.286		0.9	
1,3-Dichlorobenzene	1.498	1.552		3.6	
1,4-Dichlorobenzene	1.342	1.345		0.2	20.0
Benzyl alcohol	1.088	1.060		-2.6	
1,2-Dichlorobenzene	1.204	1.222		1.5	
2-Methylphenol	1.361	1.338		-1.7	
2,2'-oxybis(1-Chloropropane)	2.104	2.164		2.8	
4-Methylphenol	1.515	1.495		-1.3	
N-Nitroso-di-n-propylamine	1.094	1.073	0.050	-1.9	
Hexachloroethane	0.606	0.594		-2.0	
Nitrobenzene	0.401	0.414		3.2	
Isophorone	0.871	0.914		4.9	
2-Nitrophenol	0.230	0.239		3.9	20.0
2,4-Dimethylphenol	0.342	0.364		6.4	
Benzoic acid	0.280	0.289		3.2	
bis(2-Chloroethoxy)methane	0.456	0.460		0.9	
2,4-Dichlorophenol	0.313	0.315		0.6	20.0
1,2,4-Trichlorobenzene	0.301	0.307		2.0	
Naphthalene	0.909	0.933		2.6	
4-Chloroaniline	0.441	0.467		5.9	
Hexachlorobutadiene	0.157	0.158		0.6	20.0
4-Chloro-3-methylphenol	0.394	0.409		3.8	20.0
2-Methylnaphthalene	0.595	0.618		3.9	
Hexachlorocyclopentadiene	0.341	0.334	0.050	-2.0	
2,4,6-Trichlorophenol	0.382	0.387		1.3	20.0
2,4,5-Trichlorophenol	0.380	0.398		4.7	
2-Chloronaphthalene	0.947	0.959		1.3	
2-Nitroaniline	0.464	0.488		5.2	
Dimethylphthalate	1.573	1.615		2.7	
Acenaphthylene	1.683	1.745		3.7	
2,6-Dinitrotoluene	0.379	0.389		2.6	
3-Nitroaniline	0.465	0.485		4.3	
Acenaphthene	0.988	1.000		1.2	20.0
2,4-Dinitrophenol	0.241	0.231	0.050	-4.2	
4-Nitrophenol	0.236	0.236	0.050	0.0	

7C
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2957A SAS No.: _____ SDG No.: A2957

Instrument ID: HP5971Q Calibration Date: 01/03/01 Time: 0950

Lab File ID: >Q0658 Init. Calib. Date(s): 01/02/01 _____

Init. Calib. Times: 1638 1934

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Dibenzofuran	1.592	1.593		0.1	
2,4-Dinitrotoluene	0.480	0.487		1.5	
Diethylphthalate	1.657	1.709		3.1	
4-Chlorophenyl-Phenyl Ether	0.561	0.584		4.1	
Fluorene	1.148	1.154		0.5	
4-Nitroaniline	0.445	0.473		6.3	
4,6-Dinitro-2-methylphenol	0.148	0.153		3.4	
N-Nitrosodiphenylamine	0.442	0.455		2.9	20.0
4-Bromophenyl-phenylether	0.178	0.178		0.0	
Hexachlorobenzene	0.206	0.210		1.9	
Pentachlorophenol	0.152	0.162		6.6	20.0
Phenanthrene	0.867	0.892		2.9	
Anthracene	0.838	0.889		6.1	
Carbazole	0.949	1.028		8.3	
Di-n-butylphthalate	1.389	1.573		13.2	
Fluoranthene	1.087	1.257		15.6	20.0
Pyrene	1.515	1.556		2.7	
Butylbenzylphthalate	0.935	0.987		5.6	
3,3'-Dichlorobenzidine	0.579	0.616		6.4	
Benzo(a)anthracene	1.032	1.069		3.6	
Chrysene	0.984	0.999		1.5	
bis(2-Ethylhexyl)phthalate	1.019	1.101		8.0	
Di-n-octylphthalate	1.956	2.064		5.5	20.0
Benzo(b)fluoranthene	1.360	1.311		-3.6	
Benzo(k)fluoranthene	0.893	1.005		12.5	
Benzo(a)pyrene	1.149	1.181		2.8	20.0
Indeno(1,2,3-cd)pyrene	1.191	1.175		-1.3	
Dibenz(a,h)anthracene	0.992	0.984		-0.8	
Benzo(g,h,i)perylene	1.104	1.055		-4.4	
Cyclohexanone	0.896	1.092		21.9	
Nitrobenzene-D5	0.437	0.446		2.1	
2-Fluorobiphenyl	1.086	1.128		3.9	
Terphenyl-D14	1.113	1.146		3.0	
Phenol-D5	2.357	2.452		4.0	
2-Fluorophenol	1.655	1.689		2.0	
2,4,6-Tribromophenol	0.202	0.196		-3.0	

(1) Cannot be separated from Diphenylamine

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKTQ

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2957A SAS No.: _____ SDG No.: A2957

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

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >Q0659

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

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 12/22/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/03/01

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.

SBLKTQ

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2957A SAS No.: _____ SDG No.: A2957

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

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >Q0659

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

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 12/22/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/03/01

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	.8	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.

SBLKTQFMS

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2957A SAS No.: _____ SDG No.: A2957

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

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >Q0660

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

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 12/22/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/03/01

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	34	
95-57-8	2-Chlorophenol	39	
541-73-1	1,3-Dichlorobenzene	35	
106-46-7	1,4-Dichlorobenzene	33	
100-51-6	Benzyl alcohol	30	
95-50-1	1,2-Dichlorobenzene	38	
95-48-7	2-Methylphenol	22	
108-60-1	bis(2-Chloroisopropyl)ether	36	
106-44-5	4-Methylphenol	21	
621-64-7	N-Nitroso-di-n-propylamine	34	
67-72-1	Hexachloroethane	33	
98-95-3	Nitrobenzene	36	
78-59-1	Isophorone	37	
88-75-5	2-Nitrophenol	39	
105-67-9	2,4-Dimethylphenol	28	
65-85-0	Benzoic acid	45	J
111-91-1	bis(2-Chloroethoxy)methane	37	
120-83-2	2,4-Dichlorophenol	37	
120-82-1	1,2,4-Trichlorobenzene	34	
91-20-3	Naphthalene	35	
106-47-8	4-Chloroaniline	35	
87-68-3	Hexachlorobutadiene	35	
59-50-7	4-Chloro-3-methylphenol	37	
91-57-6	2-Methylnaphthalene	36	
77-47-4	Hexachlorocyclopentadiene	21	
88-06-2	2,4,6-Trichlorophenol	37	
95-95-4	2,4,5-Trichlorophenol	26	J
91-58-7	2-Chloronaphthalene	46	
88-74-4	2-Nitroaniline	38	J
131-11-3	Dimethylphthalate	36	
208-96-8	Acenaphthylene	32	

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKTQFMS

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2957A SAS No.: _____ SDG No.: A2957

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

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >Q0660

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

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 12/22/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/03/01

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	38	J
83-32-9	Acenaphthene	35	
51-28-5	2,4-Dinitrophenol	44	J
100-02-7	4-Nitrophenol	22	J
132-64-9	Dibenzofuran	36	
121-14-2	2,4-Dinitrotoluene	32	
84-66-2	Diethylphthalate	31	
7005-72-3	4-Chlorophenyl-phenylether	34	
86-73-7	Fluorene	34	
100-01-6	4-Nitroaniline	39	J
534-52-1	4,6-Dinitro-2-methylphenol	49	J
86-30-6	N-Nitrosodiphenylamine (1)	42	
101-55-3	4-Bromophenyl-phenylether	42	
118-74-1	Hexachlorobenzene	43	
87-86-5	Pentachlorophenol	42	J
85-01-8	Phenanthrene	40	
120-12-7	Anthracene	42	
84-74-2	Di-n-butylphthalate	41	
206-44-0	Fluoranthene	44	
129-00-0	Pyrene	41	
85-68-7	Butylbenzylphthalate	44	
91-94-1	3,3'-Dichlorobenzidine	41	
56-55-3	Benzo(a)anthracene	38	
218-01-9	Chrysene	35	
117-81-7	bis(2-Ethylhexyl)phthalate	37	B
117-84-0	Di-n-octylphthalate	39	
205-99-2	Benzo(b)fluoranthene	40	
207-08-9	Benzo(k)fluoranthene	34	
50-32-8	Benzo(a)pyrene	39	
193-39-5	Indeno(1,2,3-cd)pyrene	38	
53-70-3	Dibenzo(a,h)anthracene	37	
191-24-2	Benzo(g,h,i)perylene	39	

(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.: 2957A SAS No.: _____ SDG No.: A2957

Matrix: (soil/water) WATER Lab Sample ID: 002957A-02MS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >Q0666

Level: (low/med) LOW Date Received: 12/20/00

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 12/22/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/03/01

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	23	
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	60	
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	31	
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	43	
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	37	
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	64	
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

iC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-09MS

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 2957A SAS No.: _____ SDG No.: A2957

Matrix: (soil/water) WATER Lab Sample ID: 002957A-02MS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >Q0666

Level: (low/med) LOW Date Received: 12/20/00

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 12/22/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/03/01

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	36	
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	30	J
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	39	
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	85	E
85-01-8	Phenanthrene	.3	J
120-12-7	Anthracene	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	.7	J
129-00-0	Pyrene	36	
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	JB
117-84-0	Di-n-octylphthalate	.3	J
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.: 2957A SAS No.: _____ SDG No.: A2957

Matrix: (soil/water) WATER Lab Sample ID: 002957A-02MSD

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >Q0667

Level: (low/med) LOW Date Received: 12/20/00

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 12/22/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/03/01

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	24	
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	61	
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	32	
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	45	
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	37	
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	62	
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.: 2957A SAS No.: _____ SDG No.: A2957

Matrix: (soil/water) WATER Lab Sample ID: 002957A-02MSD

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >Q0667

Level: (low/med) LOW Date Received: 12/20/00

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 12/22/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/03/01

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	35	
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	30	J
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	37	
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	77	
85-01-8	Phenanthrene	.4	J
120-12-7	Anthracene	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	.9	J
129-00-0	Pyrene	35	
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	.3	J
117-81-7	bis(2-Ethylhexyl)phthalate	1	JB
117-84-0	Di-n-octylphthalate	.4	J
205-99-2	Benzo(b)fluoranthene	.3	J
207-08-9	Benzo(k)fluoranthene	.4	J
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.: 2957A SAS No.: _____ SDG No.: A2957

SOW No.: ILM04.0

Field Sample ID	Lab Sample ID.
FIELD BLANK	002957A-04
SW-01	F002957A-01
SW-09D	F002957A-02D
SW-09S	F002957A-02S
SW-09	F002957A-02
SW-10	F002957A-03
FIELD BLANK	F002957A-04
SW-01	T002957A-01
SW-09D	T002957A-02D
SW-09S	T002957A-02S
SW-09	T002957A-02
SW-10	T002957A-03
FIELD BLANK	T002957A-04

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: [signature]

Date: 1/12/01 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.: 2957A SAS No.: _____ SDG No.: A2957

Matrix (soil/water): WATER Lab Sample ID: F002957A-01

Level (low/med): LOW Date Received: 12/20/00

% 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	3.5	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-09

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2957A SAS No.: _____ SDG No.: A2957

Matrix (soil/water): WATER Lab Sample ID: F002957A-02

Level (low/med): LOW Date Received: 12/20/00

% 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	3.9	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

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-10

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2957A SAS No.: _____ SDG No.: A2957

Matrix (soil/water): WATER Lab Sample ID: F002957A-03

Level (low/med): LOW Date Received: 12/20/00

% 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	3.5	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.

FIELD BLANK

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2957A SAS No.: _____ SDG No.: A2957

Matrix (soil/water): WATER Lab Sample ID: F002957A-04

Level (low/med): LOW Date Received: 12/20/00

% 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	3.5	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-01

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2957A SAS No.: _____ SDG No.: A2957

Matrix (soil/water): WATER Lab Sample ID: T002957A-01

Level (low/med): LOW Date Received: 12/20/00

% 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	6.3	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	17.1			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	21.6			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

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-09

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2957A SAS No.: _____ SDG No.: A2957

Matrix (soil/water): WATER Lab Sample ID: T002957A-02

Level (low/med): LOW Date Received: 12/20/00

% 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	204.			P
7440-36-0	Antimony	5.0	U		P
7440-38-2	Arsenic	9.0	B		P
7440-39-3	Barium	28.1	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	32700			P
7440-47-3	Chromium	2.0	U		P
7440-48-4	Cobalt	6.5	B		P
7440-50-8	Copper	6.6	B		P
7439-89-6	Iron	1500			P
7439-92-1	Lead	3.5			P
7439-95-4	Magnesium	5270			P
7439-96-5	Manganese	357.			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	4.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	81200			P
7440-28-0	Thallium	10.0	U		P
7440-62-2	Vanadium	2.0	U		P
7440-66-6	Zinc	187.			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-10

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2957A SAS No.: _____ SDG No.: A2957

Matrix (soil/water): WATER Lab Sample ID: T002957A-03

Level (low/med): LOW Date Received: 12/20/00

% 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	4.0	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	16.1			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	20.4			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.

FIELD BLANK

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2957A SAS No.: _____ SDG No.: A2957

Matrix (soil/water): WATER Lab Sample ID: T002957A-04

Level (low/med): LOW Date Received: 12/20/00

% 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	50.0	U		P
7440-36-0	Antimony	5.0	U		P
7440-38-2	Arsenic	3.5	U		P
7440-39-3	Barium	3.0	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	18000			P
7440-47-3	Chromium	2.0	U		P
7440-48-4	Cobalt	2.0	U		P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	50.0	U		P
7439-92-1	Lead	2.0	U		P
7439-95-4	Magnesium	2180	B		P
7439-96-5	Manganese	3.9	B		P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	2.0	U		P
7440-09-7	Potassium	454.	B		P
7782-49-2	Selenium	4.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	2700	B		P
7440-28-0	Thallium	10.0	U		P
7440-62-2	Vanadium	2.0	U		P
7440-66-6	Zinc	7.8	B		P
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Total Metals

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2957

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	11000.0	11095.67	100.9	5500.0	5486.53	99.8	5509.25	100.2	P
Antimony	1000.0	1017.33	101.7	500.0	507.23	101.4	511.46	102.3	P
Arsenic	1000.0	1008.95	100.9	500.0	493.25	98.6	499.32	99.9	P
Barium	1000.0	996.52	99.6	500.0	499.20	99.8	501.43	100.3	P
Beryllium	1000.0	1016.80	101.7	500.0	504.93	101.0	512.07	102.4	P
Cadmium	1000.0	1015.75	101.6	500.0	501.27	100.2	507.19	101.4	P
Calcium	27000.0	27430.04	101.6	19800.0	19990.43	101.0	20215.90	102.1	P
Chromium	1000.0	1002.08	100.2	500.0	498.89	99.8	503.92	100.8	P
Cobalt	1000.0	1003.34	100.3	500.0	498.38	99.7	505.96	101.2	P
Copper	1000.0	1012.34	101.2	500.0	504.95	101.0	507.78	101.6	P
Iron	11000.0	11372.95	103.4	5500.0	5619.98	102.2	5640.39	102.6	P
Lead	1000.0	1034.44	103.4	500.0	510.72	102.1	516.06	103.2	P
Magnesium	27000.0	27409.20	101.5	19800.0	19770.01	99.8	19978.76	100.9	P
Manganese	1000.0	997.50	99.8	500.0	495.50	99.1	498.64	99.7	P
Mercury	5.0	5.14	102.8	5.0	5.24	104.8	5.40	108.0	CV
Nickel	1000.0	994.87	99.5	500.0	496.09	99.2	502.10	100.4	P
Potassium	20000.0	20964.42	104.8	10000.0	9629.85	96.3	9630.42	96.3	P
Selenium	1000.0	1043.57	104.4	500.0	508.42	101.7	515.64	103.1	P
Silver	100.0	100.76	100.8	50.0	50.39	100.8	50.50	101.0	P
Sodium	27000.0	26371.02	97.7	19800.0	20352.40	102.8	19912.06	100.6	P
Thallium	1000.0	1073.30	107.3	500.0	519.25	103.8	532.98	106.6	P
Vanadium	1000.0	1024.85	102.5	500.0	510.45	102.1	515.30	103.1	P
Zinc	1000.0	1014.89	101.5	500.0	507.05	101.4	511.30	102.3	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.: A2957

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	5509.61	100.2	5533.62	100.6	P
Antimony				500.0	508.68	101.7	507.49	101.5	P
Arsenic				500.0	497.79	99.6	503.96	100.8	P
Barium				500.0	499.34	99.9	501.90	100.4	P
Beryllium				500.0	512.34	102.5	518.08	103.6	P
Cadmium				500.0	504.48	100.9	510.36	102.1	P
Calcium				19800.0	20242.89	102.2	20330.42	102.7	P
Chromium				500.0	504.52	100.9	507.90	101.6	P
Cobalt				500.0	506.24	101.2	510.46	102.1	P
Copper				500.0	507.50	101.5	510.21	102.0	P
Iron				5500.0	5633.62	102.4	5737.35	104.3	P
Lead				500.0	517.11	103.4	520.40	104.1	P
Magnesium				19800.0	20007.11	101.0	20104.70	101.5	P
Manganese				500.0	495.96	99.2	504.91	101.0	P
Mercury				5.0	5.28	105.6	5.48	109.6	CV
Nickel				500.0	502.78	100.6	506.41	101.3	P
Potassium				10000.0	9599.48	96.0	9557.92	95.6	P
Selenium				500.0	511.67	102.3	520.38	104.1	P
Silver				50.0	50.46	100.9	50.59	101.2	P
Sodium				19800.0	20149.00	101.8	20278.69	102.4	P
Thallium				500.0	526.98	105.4	530.09	106.0	P
Vanadium				500.0	515.23	103.0	517.79	103.6	P
Zinc				500.0	508.37	101.7	512.65	102.5	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.: A2957

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	5493.67	99.9			P
Antimony				500.0	516.45	103.3			P
Arsenic				500.0	500.34	100.1			P
Barium				500.0	499.45	99.9			P
Beryllium				500.0	510.84	102.2			P
Cadmium				500.0	503.55	100.7			P
Calcium				19800.0	19995.31	101.0			P
Chromium				500.0	500.18	100.0			P
Cobalt				500.0	502.83	100.6			P
Copper				500.0	507.54	101.5			P
Iron				5500.0	5654.16	102.8			P
Lead				500.0	516.00	103.2			P
Magnesium				19800.0	19844.18	100.2			P
Manganese				500.0	498.43	99.7			P
Mercury									NR
Nickel				500.0	499.18	99.8			P
Potassium				10000.0	9585.43	95.8			P
Selenium				500.0	517.53	103.5			P
Silver				50.0	50.35	100.7			P
Sodium				19800.0	20492.72	103.5			P
Thallium				500.0	527.77	105.6			P
Vanadium				500.0	512.04	102.4			P
Zinc				500.0	507.06	101.4			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.: A2957

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	126.65	105.5	122.56	102.1
Arsenic				20.0	18.92	94.6	19.59	98.0
Barium								
Beryllium				10.0	10.12	101.2	10.16	101.6
Cadmium				10.0	9.96	99.7	9.86	98.7
Calcium								
Chromium				20.0	19.85	99.2	20.06	100.3
Cobalt				100.0	100.83	100.8	101.99	102.0
Copper				50.0	50.43	100.9	51.52	103.0
Iron								
Lead				6.0	7.46	124.4	8.07	134.5
Magnesium								
Manganese				30.0	30.11	100.4	30.37	101.2
Mercury								
Nickel				80.0	80.79	101.0	81.66	102.1
Potassium								
Selenium				10.0	9.49	95.0	9.70	97.0
Silver				20.0	19.69	98.5	19.84	99.2
Sodium								
Thallium				20.0	18.80	94.0	15.12	75.6
Vanadium				100.0	100.49	100.5	101.20	101.2
Zinc				40.0	40.10	100.3	42.65	106.6
Cyanide								

U.S. EPA - CLP

3
BLANKS

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2957

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	50.0	U	50.0	U	50.0	U	50.0	U	50.000	U	P
Antimony	5.0	U	5.0	U	5.0	U	5.0	U	5.000	U	P
Arsenic	3.5	U	3.5	U	3.5	U	3.5	U	3.500	U	P
Barium	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Beryllium	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Cadmium	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Calcium	50.0	U	50.0	U	50.0	U	50.0	U	50.000	U	P
Chromium	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	P
Cobalt	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	P
Copper	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	P
Iron	50.0	U	50.0	U	50.0	U	50.0	U	50.000	U	P
Lead	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	P
Magnesium	50.0	U	50.0	U	50.0	U	50.0	U	50.000	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	0.1	U	0.100	U	CV
Nickel	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	P
Potassium	200.0	U	200.0	U	200.0	U	200.0	U	200.000	U	P
Selenium	4.0	U	4.0	U	4.0	U	4.0	U	4.000	U	P
Silver	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	P
Sodium	50.0	U	50.0	U	50.0	U	50.0	U	50.000	U	P
Thallium	10.0	U	10.0	U	10.0	U	10.0	U	10.000	U	P
Vanadium	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	P
Zinc	5.0	U	5.0	U	6.7	B	5.0	U	5.000	U	P
Cyanide											NR

U.S. EPA - CLP

3
BLANKS

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2957

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			50.0	U	50.0	U					P
Antimony			5.0	U	5.0	U					P
Arsenic			3.5	U	3.5	U					P
Barium			1.0	U	1.0	U					P
Beryllium			1.0	U	1.0	U					P
Cadmium			1.0	U	1.0	U					P
Calcium			50.0	U	50.0	U					P
Chromium			2.0	U	2.0	U					P
Cobalt			2.0	U	2.0	U					P
Copper			2.5	B	2.0	U					P
Iron			50.0	U	50.0	U					P
Lead			2.0	U	2.0	U					P
Magnesium			50.0	U	50.0	U					P
Manganese			1.0	U	1.0	U					P
Mercury											NR
Nickel			2.0	U	2.0	U					P
Potassium			200.0	U	200.0	U					P
Selenium			4.0	U	4.0	U					P
Silver			2.0	U	2.0	U					P
Sodium			50.0	U	50.0	U					P
Thallium			10.0	U	10.0	U					P
Vanadium			2.0	U	2.0	U					P
Zinc			5.0	U	5.0	U					P
Cyanide											NR

U.S. EPA - CLP

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2957

ID Number: JA61E 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	478628	481225.8	96.2	485348	485083.2	97.0
Antimony		600	-2	587.6	97.9	0	592.5	98.7
Arsenic		100	-5	86.2	86.2	-6	90.9	90.9
Barium		500	2	489.8	97.9	2	493.6	98.7
Beryllium		500	0	463.4	92.6	0	471.8	94.3
Cadmium		1000	0	909.6	90.9	0	918.9	91.8
Calcium	500000	500000	423285	426297.1	85.2	428959	429267.3	85.8
Chromium		500	1	457.3	91.4	1	462.1	92.4
Cobalt		500	-3	460.2	92.0	-3	466.6	93.3
Copper		500	1	553.4	110.6	2	561.8	112.3
Iron	200000	200000	182733	183338.1	91.6	184207	184976.2	92.4
Lead		50	2	47.4	94.9	0	50.0	100.0
Magnesium	500000	500000	489574	490683.4	98.1	494939	494550.6	98.9
Manganese		500	-3	458.4	91.6	-3	462.1	92.4
Mercury								
Nickel		1000	2	950.8	95.0	2	964.3	96.4
Potassium			-146	-99.4		-136	-140.6	
Selenium		50	7	53.1	106.3	6	59.6	119.3
Silver		200	-1	209.3	104.6	0	211.1	105.5
Sodium			34	30.9		26	16.3	
Thallium		100	-5	98.6	98.6	-7	93.9	93.9
Vanadium		500	-2	476.1	95.2	-2	480.5	96.1
Zinc		1000	-3	968.5	96.8	-2	972.1	97.2
Cyanide								

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

SW-09S

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2957A SAS No.: _____ SDG No.: A2957

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	41.3842		3.9379	B	40.00	93.6		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

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.: 2957A SAS No.: _____ SDG No.: A2957

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	2179.4670		203.5247		2000.00	98.8		P
Antimony	75-125	495.8476		5.0000	U	500.00	99.2		P
Arsenic	75-125	47.7208		9.0236	B	40.00	96.7		P
Barium	75-125	1813.5730		28.1180	B	2000.00	89.3		P
Beryllium	75-125	46.5665		1.0000	U	50.00	93.1		P
Cadmium	75-125	4.8057	B	1.0000	U	5.00	96.1		P
Calcium				32746.0200		0.00	0.0		P
Chromium	75-125	177.5545		2.0000	U	200.00	88.8		P
Cobalt	75-125	453.0440		6.5397	B	500.00	89.3		P
Copper	75-125	243.1625		6.5886	B	250.00	94.6		P
Iron	75-125	2380.2460		1496.3790		1000.00	88.4		P
Lead	75-125	21.2628		3.5056		20.00	88.8		P
Magnesium				5269.9670		0.00	0.0		P
Manganese	75-125	796.0881		357.0122		500.00	87.8		P
Mercury	75-125	1.0600		0.1000	U	1.00	106.0		CV
Nickel	75-125	468.0129		2.8965	B	500.00	93.0		P
Potassium				8747.2530		0.00	0.0		P
Selenium	75-125	8.4452		4.0000	U	10.00	84.4		P
Silver	75-125	46.0803		2.0000	U	50.00	92.2		P
Sodium				81220.3500		0.00	0.0		P
Thallium	75-125	47.6699		10.0000	U	50.00	95.3		P
Vanadium	75-125	447.9027		2.0000	U	500.00	89.6		P
Zinc	75-125	643.1113		186.9804		500.00	91.2		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.: 2957A SAS No.: _____ SDG No.: A2957

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		3.9379	B	3.5000	U	200.0		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

Filtered Metals

U.S. EPA - CLP

6
DUPLICATES

EPA SAMPLE NO.

SW-09D

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2957A SAS No.: _____ SDG No.: A2957

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	.0	203.5247		189.5775	B	7.1		P
Antimony		5.0000	U	5.0000	U			P
Arsenic	.0	9.0236	B	10.9993		19.7		P
Barium		28.1180	B	28.6636	B	1.9		P
Beryllium		1.0000	U	1.0000	U			P
Cadmium		1.0000	U	1.0000	U			P
Calcium		32746.0200		32784.9000		0.1		P
Chromium		2.0000	U	2.0000	U			P
Cobalt		6.5397	B	6.9608	B	6.2		P
Copper		6.5886	B	6.9781	B	5.7		P
Iron		1496.3790		1501.9640		0.4		P
Lead	.0	3.5056		3.4034		3.0		P
Magnesium	.0	5269.9670		5255.2010		0.3		P
Manganese		357.0122		355.5959		0.4		P
Mercury		0.1000	U	0.1000	U			CV
Nickel		2.8965	B	2.7232	B	6.2		P
Potassium	.0	8747.2530		8722.6090		0.3		P
Selenium		4.0000	U	4.0000	U			P
Silver		2.0000	U	2.0000	U			P
Sodium		81220.3500		82243.5600		1.2		P
Thallium		10.0000	U	10.0000	U			P
Vanadium		2.0000	U	2.0000	U			P
Zinc		186.9804		186.0753		0.5		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.: A2957

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	2966.85	98.9						
Antimony	1000.0	1059.38	105.9						
Arsenic	1000.0	1023.92	102.4						
Barium	300.0	305.46	101.8						
Beryllium	100.0	106.37	106.4						
Cadmium	300.0	298.36	99.4						
Calcium	15000.0	15176.05	101.2						
Chromium	300.0	300.87	100.3						
Cobalt	300.0	303.14	101.0						
Copper	300.0	302.64	100.9						
Iron	12500.0	12777.97	102.2						
Lead	1000.0	1028.01	102.8						
Magnesium	7500.0	7513.30	100.2						
Manganese	200.0	199.12	99.6						
Mercury	5.0	5.32	106.4						
Nickel	300.0	305.93	102.0						
Potassium	20000.0	22506.68	112.5						
Selenium	500.0	547.66	109.5						
Silver	300.0	303.35	101.1						
Sodium	2500.0	2657.73	106.3						
Thallium	1000.0	1059.29	105.9						
Vanadium	300.0	304.55	101.5						
Zinc	300.0	303.80	101.3						
Cyanide									

Total Metals

U.S. EPA - CLP

8
STANDARD ADDITION RESULTS

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2957

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.: 2957A SAS No.: _____ SDG No.: A2957

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	203.52		265.47	B	30.4		P
Antimony	5.00	U	25.00	U			P
Arsenic	9.02	B	17.50	U	100.0		P
Barium	28.12	B	29.18	B	3.8		P
Beryllium	1.00	U	5.00	U			P
Cadmium	1.00	U	5.00	U			P
Calcium	32746.02		32191.06		1.7		P
Chromium	2.00	U	10.00	U			P
Cobalt	6.54	B	10.00	U	100.0		P
Copper	6.59	B	10.00	U	100.0		P
Iron	1496.38		1442.59		3.6		P
Lead	3.50		10.00	U	100.0		P
Magnesium	5269.97		5132.51	B	2.6		P
Manganese	357.01		354.98		0.6		P
Mercury							NR
Nickel	2.90	B	10.00	U	100.0		P
Potassium	8747.25		5550.82	B	36.5		P
Selenium	4.00	U	20.00	U			P
Silver	2.00	U	10.00	U			P
Sodium	81220.35		90075.05		10.9		P
Thallium	10.00	U	50.00	U			P
Vanadium	2.00	U	10.00	U			P
Zinc	186.98		182.38		2.4		P
Cyanide							NR

U.S. EPA - CLP

10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2957

ICP ID Number: JA61E Date: 01/01/01

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	50.0	P
Antimony	206.83		60.0	5.0	P
Arsenic	193.60		10.0	3.5	P
Barium	493.40		200.0	1.0	P
Beryllium	234.86		5.0	1.0	P
Cadmium	228.80		5.0	1.0	P
Calcium	317.93		5000.0	50.0	P
Chromium	267.70		10.0	2.0	P
Cobalt	228.61		50.0	2.0	P
Copper	324.75		25.0	2.0	P
Iron	271.44		100.0	50.0	P
Lead	220.35		3.0	2.0	P
Magnesium	279.07		5000.0	50.0	P
Manganese	257.61		15.0	1.0	P
Mercury			.2		
Nickel	231.60		40.0	2.0	P
Potassium	766.49		5000.0	200.0	P
Selenium	196.02		5.0	4.0	P
Silver	328.06		10.0	2.0	P
Sodium	589.59		5000.0	50.0	P
Thallium	189.90		10.0	10.0	P
Vanadium	292.40		50.0	2.0	P
Zinc	213.85		20.0	5.0	P

Comments:

U.S. EPA - CLP

10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2957

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

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

11A
ICP Interelement correction Factors (Annually)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2957

ICP ID Number: JA61E 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

11B
ICP Interelement correction Factors (Annually)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2957

ICP ID Number: JA61E 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.: A2957

ICP ID Number: JA61E 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.: A2957

ICP ID Number: JA61E 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:

11B
ICP Interelement correction Factors (Annually)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2957

ICP ID Number: JA61E 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.: A2957

ICP ID Number: JA61E 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.: A2957

ICP ID Number: JA61E Date: 01/01/01

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:

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13
PREPARATION LOG

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2957A SAS No.: _____ SDG No.: A2957

Method: P

EPA Sample No.	Preparation Date	Weight (~~gram~~) mL	Volume (mL)
F002957A-01	01/08/01	100.00	100
F002957A-02	01/08/01	100.00	100
F002957A-02D	01/08/01	100.00	100
F002957A-02S	01/08/01	100.00	100
F002957A-03	01/08/01	100.00	100
F002957A-04	01/08/01	100.00	100
LCSW1	01/08/01	100.00	100
PBW1	01/08/01	100.00	100
T002957A-01	01/08/01	100.00	100
T002957A-02	01/08/01	100.00	100
T002957A-02D	01/08/01	100.00	100
T002957A-02S	01/08/01	100.00	100
T002957A-03	01/08/01	100.00	100
T002957A-04	01/08/01	100.00	100

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13
PREPARATION LOG

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2957A SAS No.: _____ SDG No.: A2957

Method: CV

EPA Sample No.	Preparation Date	Weight (~~gram~~) mL	Volume (mL)
002957A-01	01/09/01	25.00	25
002957A-02	01/09/01	25.00	25
002957A-02D	01/09/01	25.00	25
002957A-02S	01/09/01	25.00	25
002957A-03	01/09/01	25.00	25
002957A-04	01/09/01	25.00	25
LCSW1	01/09/01	25.00	25
LCSW2	01/09/01	〃	25
LCSW3	01/09/01	〃	25
PBW1	01/09/01	25.00	25
PBW2	01/09/01	〃	25
PBW3	01/09/01	〃	25

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14
ANALYSIS RUN LOG

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2957

Instrument ID Number: JA61E Method: P

Start Date: 01/09/01 End Date: 01/09/01

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	1347		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	1353			X	X	X	X	X		X	X	X		X		X		X	X	X	X		X	X	X	
S8	1.00	1359			X	X	X	X	X		X	X	X		X		X		X	X	X	X		X	X	X	
S4	1.00	1405		X		X	X	X	X		X	X	X		X		X		X		X	X		X	X	X	
S9	1.00	1410		X						X				X		X							X				
S6	1.00	1414		X						X				X		X							X				
S5	1.00	1418			X															X							
S3	1.00	1422								X				X		X							X				
ICV1	1.00	1422		X		X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	X	X	X	
ICV1	1.00	1428			X															X							
ICB1	1.00	1434		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	1440																									
CRI1	1.00	1446			X	X		X	X		X	X	X		X		X		X		X	X		X	X	X	
ICSAI	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	
ICSABI	1.00	1458		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	1504		X		X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	X	X	X	
CCV1	1.00	1512			X															X							
CCB1	1.00	1518		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	1524		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	1530		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
T002957A-01	1.00	1536				X					X				X												
F002957A-01	1.00	1542				X																					
T002957A-02	1.00	1548		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
T002957A-02D	1.00	1554		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
T002957A-02S	1.00	1600		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
T002957A-02A	1.00	1606																									
T002957A-02L	5.00	1612		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
F002957A-02	1.00	1618				X																					
CCV2	1.00	1624		X		X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	X	X	X	
CCV2	1.00	1630			X															X							
CCB2	1.00	1636		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
F002957A-02D	1.00	1642				X																					
F002957A-02S	1.00	1648				X																					

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ANALYSIS RUN LOG

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2957

Instrument ID Number: JA61E Method: P

Start Date: 01/09/01 End Date: 01/09/01

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
T002957A-03	1.00	1654				X					X				X												
F002957A-03	1.00	1700				X																					
T002957A-04	1.00	1706		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
F002957A-04	1.00	1712				X																					
ZZZZZZ	1.00	1718																									
ZZZZZZ	1.00	1724																									
ZZZZZZ	1.00	1724																									
ZZZZZZ	1.00	1730																									
ZZZZZZ	1.00	1736																									
CCV3	1.00	1742		X		X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	X	X	X	
CCV3	1.00	1748			X															X							
CCB3	1.00	1754		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	1800																									
ZZZZZZ	5.00	1806																									
ZZZZZZ	1.00	1812																									
ZZZZZZ	5.00	1818																									
ZZZZZZ	1.00	1824																									
ZZZZZZ	1.00	1830																									
ZZZZZZ	1.00	1836																									
ZZZZZZ	1.00	1842																									
ZZZZZZ	1.00	1848																									
ZZZZZZ	1.00	1854																									
CCV4	1.00	1900		X		X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	X	X	X	
CCV4	1.00	1906			X															X							
CCB4	1.00	1912		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	5.00	1918																									
ZZZZZZ	1.00	1924																									
CRI2	1.00	1930			X	X		X	X		X	X	X		X		X		X		X	X		X	X	X	
ICSAF	1.00	1936		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	1942		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	1948		X		X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	X	X	X	
CCV5	1.00	1954			X															X							
CCB5	1.00	2000		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

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2957

Instrument ID Number: HG4 Method: CV

Start Date: 01/10/01 End Date: 01/10/01

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	1215																X									
S0	1.00	1217																X									
S1	1.00	1219																X									
S2	1.00	1221																X									
S5	1.00	1223																X									
S1	1.00	1225																X									
ICV1	1.00	1227																X									
ICV1	1.00	1227																X									
ICV1	1.00	1227																X									
ICB	1.00	1229																X									
ICB	1.00	1229																X									
ICB1	1.00	1229																X									
CCV1	1.00	1231																X									
CCV1	1.00	1231																X									
CCB1	1.00	1233																X									
CCB1	1.00	1233																X									
PBW010900A	1.00	1234																X									
PBW1	1.00	1234																X									
LCSW01090A	1.00	1236																X									
LCSW1	1.00	1236																X									
ZZZZZZ	1.00	1238																									
ZZZZZZ	1.00	1238																									
ZZZZZZ	1.00	1240																									
ZZZZZZ	1.00	1240																									
ZZZZZZ	1.00	1241																									
ZZZZZZ	1.00	1241																									
ZZZZZZ	1.00	1243																									
ZZZZZZ	1.00	1243																									
ZZZZZZ	1.00	1245																									
ZZZZZZ	1.00	1245																									
ZZZZZZ	1.00	1247																									
ZZZZZZ	1.00	1247																									
ZZZZZZ	1.00	1249																									

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2957

Instrument ID Number: HG4 Method: CV

Start Date: 01/10/01 End Date: 01/10/01

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	1249																									
ZZZZZZ	1.00	1250																									
ZZZZZZ	1.00	1250																									
CCV2	1.00	1252																X									
CCV2	1.00	1252																X									
CCB2	1.00	1254																X									
CCB2	1.00	1254																X									
ZZZZZZ	1.00	1255																									
ZZZZZZ	1.00	1255																									
ZZZZZZ	1.00	1257																									
ZZZZZZ	1.00	1257																									
ZZZZZZ	1.00	1259																									
ZZZZZZ	1.00	1259																									
ZZZZZZ	1.00	1300																									
ZZZZZZ	1.00	1300																									
ZZZZZZ	1.00	1302																									
ZZZZZZ	1.00	1302																									
T002957A-01	1.00	1303																X									
T002957A-02	1.00	1305																X									
T002957A-02D	1.00	1306																X									
T002957A-02S	1.00	1308																X									
T002957A-03	1.00	1310																X									
CCV3	1.00	1312																X									
CCV3	1.00	1312																X									
CCB3	1.00	1314																X									
CCB3	1.00	1314																X									
002957A-04	1.00	1315																X									
ZZZZZZ	1.00	1317																									
ZZZZZZ	1.00	1319																									
ZZZZZZ	1.00	1320																									
ZZZZZZ	1.00	1322																									
ZZZZZZ	1.00	1324																									
ZZZZZZ	1.00	1326																									

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A2957

Instrument ID Number: HG4 Method: CV

Start Date: 01/10/01 End Date: 01/10/01

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	1328																									
ZZZZZZ	1.00	1330																									
ZZZZZZ	1.00	1331																									
CCV4	1.00	1334																X									
CCV4	1.00	1334																X									
CCB4	1.00	1336																X									

COVER PAGE - WET CHEM ANALYSES DATA PACKAGE

Lab Name: STL Contract:

Lab Code: STL Case No.: 2957A SAS No.: SDG No.: A2957

SOW No.:

Sample No.	Lab Sample ID
SW-01	002957A-01
SW-09	002957A-02
SW-10	002957A-03

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: 1/5/01 Title: Group Leader

WET CHEM ANALYSIS

3
BLANKS

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2957A SAS No.: _____ SDG No.: A2957

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.

CLG-916B

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2957A SAS No.: _____ SDG No.: A2957

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

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Units	M
TSS	20	13.6		15.6		13.7		mg/L	G

FORM V - WC

LABORATORY CONTROL SAMPLE

Lab Name: STL Contract:

Lab Code: STL Case No.: 2957A SAS No.: SDG No.: A2957

Analyte	True	LCS Found	%R	units	LCS Source
TSS	450.3	440	97.7	mg/L	

FORM VI - WC

7

HOLD TIME REPORT

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 2957A SAS No.: _____ SDG No.: A2957

Analyte : TSS

Client Sample ID	Date Received	Date Prepped	Date Analyzed
SW-01	12/20/00	12/20/00	12/20/00 00:00
SW-09	12/20/00	12/20/00	12/20/00 00:00
SW-10	12/20/00	12/20/00	12/20/00 00:00
CLG-916B	11/10/00	12/20/00	12/20/00 00:00
CLG-916B	11/10/00	12/20/00	12/20/00 00:00

FORM VII - WC

Spring Storm 1

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

April 10, 2001

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 March 24-27, 2001. 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 #7001-0698A	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,

Cheryl A. Cascella for

Jeffrey C. Curran
Laboratory Manager

JCC

This report contains 148 pages.

7001-0698A
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.

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.

Selenium failed the controls for spike recovery analysis of total sample SW-09 resulting in one "N" flag.

No other 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.

All samples were extracted, concentrated and analyzed without any apparent problems, except as noted below.

Sample SW-03 was extracted at half volume due to limited sample volume. Surrogate addition and final volume was adjusted so that PQLs were not affected.

Sample SW-03 had one surrogate out of recovery criteria, but within laboratory sample acceptance criteria.

The spike recoveries for the compounds, 2-methylphenol, 4-methylphenol, 2,4,5-trichlorophenol, dimethylphthalate, 2,6-dinitrotoluene, 3-nitroaniline, 2,4-dinitrotoluene, fluorene and 3,3'-dichlorobenzidine , were below recovery limits for SBLKPQFMS.

The spike recovery for the compound, 4-methylphenol, was below recovery limits and the spike recovery for the compound, pentachlorophenol, was above recovery limits for SBLKNQFMS.

TABLE SV-1.0
7001-0698A
ROUX ASSOCIATES-MA
TCL SEMI-VOLATILE ORGANICS

Aqueous

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.	SBLKNQ	010698A-01	010698A-01MS	
Method Blank I.D.	SBLKNQ	SBLKNQ	SBLKNQ	
Quant. Factor	1.00	1.00	1.00	
Cyclohexanone	U	U	.4J	10
Phenol	U	U	24X	10
bis(2-Chloroethyl)ether	U	U	U	10
2-Chlorophenol	U	U	55X	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	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	.5J	10
1,2,4-Trichlorobenzene	U	U	37X	10
Naphthalene	U	U	U	10
4-Chloroaniline	U	U	U	10
Hexachlorobutadiene	U	U	U	10
4-Chloro-3-methylphenol	U	U	61X	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		03/24/01	03/24/01	
Date Extracted	03/27/01	03/27/01	03/27/01	
Date Analyzed	03/28/01	03/28/01	03/28/01	

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
7001-0698A
ROUX ASSOCIATES-MA
TCL SEMI-VOLATILE ORGANICS

Aqueous

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.	SBLKNQ	010698A-01	010698A-01MS	
Method Blank I.D.	SBLKNQ	SBLKNQ	SBLKNQ	
Quant. Factor	1.00	1.00	1.00	
Acenaphthene	U	U	30X	10
2,4-Dinitrophenol	U	U	U	50
4-Nitrophenol	U	U	26JX	50
Dibenzofuran	U	U	U	10
2,4-Dinitrotoluene	U	U	34X	10
Diethylphthalate	U	.2J	.1J	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	70X	50
Phenanthrene	U	1J	.6J	10
Anthracene	U	.1J	U	10
Di-n-butylphthalate	.3J	.4JB	.3JB	10
Fluoranthene	U	2J	1J	10
Pyrene	U	1J	31X	10
Butylbenzylphthalate	U	.2J	.2J	10
3,3'-Dichlorobenzidine	U	U	U	20
Benzo(a)anthracene	U	.4J	.2J	10
Chrysene	U	.8J	.5J	10
bis(2-Ethylhexyl)phthalate	.7J	1JB	.8JB	10
Di-n-octylphthalate	U	.3J	.1J	10
Benzo(b)fluoranthene	U	.8J	.6J	10
Benzo(k)fluoranthene	U	.9J	.4J	10
Benzo(a)pyrene	U	.6J	.3J	10
Indeno(1,2,3-cd)pyrene	U	.4J	.2J	10
Dibenzo(a,h)anthracene	U	U	U	10
Benzo(g,h,i)perylene	U	.4J	.2J	10
Date Received		03/24/01	03/24/01	
Date Extracted	03/27/01	03/27/01	03/27/01	
Date Analyzed	03/28/01	03/28/01	03/28/01	

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
7001-0698A
ROUX ASSOCIATES-MA
TCL SEMI-VOLATILE ORGANICS

Aqueous

All values are ug/L.

Client Sample I.D.	SW-09			Quant. Limits with no Dilution
Lab Sample I.D.	MSD			
Method Blank I.D.	010698A-01			
Quant. Factor	MSD			
	SBLKNQ			
	1.00			
Cyclohexanone	.4J			10
Phenol	25X			10
bis(2-Chloroethyl)ether	U			10
2-Chlorophenol	58X			10
1,3-Dichlorobenzene	U			10
1,4-Dichlorobenzene	29X			10
Benzyl alcohol	U			10
1,2-Dichlorobenzene	U			10
2-Methylphenol	U			10
bis(2-Chloroisopropyl)ether	U			10
4-Methylphenol	U			10
N-Nitroso-di-n-propylamine	42X			10
Hexachloroethane	U			10
Nitrobenzene	U			10
Isophorone	U			10
2-Nitrophenol	U			10
2,4-Dimethylphenol	U			10
Benzoic acid	U			50
bis(2-Chloroethoxy)methane	U			10
2,4-Dichlorophenol	.5J			10
1,2,4-Trichlorobenzene	36X			10
Naphthalene	U			10
4-Chloroaniline	U			10
Hexachlorobutadiene	U			10
4-Chloro-3-methylphenol	65X			10
2-Methylnaphthalene	U			10
Hexachlorocyclopentadiene	U			10
2,4,6-Trichlorophenol	U			10
2,4,5-Trichlorophenol	U			50
2-Chloronaphthalene	U			10
2-Nitroaniline	U			50
Dimethylphthalate	U			10
Acenaphthylene	U			10
2,6-Dinitrotoluene	U			10
3-Nitroaniline	U			50
Date Received	03/24/01			
Date Extracted	03/27/01			
Date Analyzed	03/28/01			

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
7001-0698A
ROUX ASSOCIATES-MA
TCL SEMI-VOLATILE ORGANICS

Aqueous

All values are ug/L.

Client Sample I.D.	SW-09 MSD			Quant. Limits with no Dilution
Lab Sample I.D.	010698A-01 MSD			
Method Blank I.D.	SBLKNQ			
Quant. Factor	1.00			
Acenaphthene	31X			10
2,4-Dinitrophenol	U			50
4-Nitrophenol	29JX			50
Dibenzofuran	U			10
2,4-Dinitrotoluene	35X			10
Diethylphthalate	.1J			10
4-Chlorophenyl-phenylether	U			10
Fluorene	U			10
4-Nitroaniline	U			50
4,6-Dinitro-2-methylphenol	U			50
N-Nitrosodiphenylamine (1)	U			10
4-Bromophenyl-phenylether	U			10
Hexachlorobenzene	U			10
Pentachlorophenol	72X			50
Phenanthrene	.6J			10
Anthracene	U			10
Di-n-butylphthalate	.3JB			10
Fluoranthene	1J			10
Pyrene	32X			10
Butylbenzylphthalate	.2J			10
3,3'-Dichlorobenzidine	U			20
Benzo(a)anthracene	.2J			10
Chrysene	.5J			10
bis(2-Ethylhexyl)phthalate	.9JB			10
Di-n-octylphthalate	.1J			10
Benzo(b)fluoranthene	.5J			10
Benzo(k)fluoranthene	.5J			10
Benzo(a)pyrene	.4J			10
Indeno(1,2,3-cd)pyrene	.3J			10
Dibenzo(a,h)anthracene	U			10
Benzo(g,h,i)perylene	.3J			10
Date Received	03/24/01			
Date Extracted	03/27/01			
Date Analyzed	03/28/01			

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-1.2
7001-0698A
ROUX ASSOCIATES-MA
TCL SEMI-VOLATILE ORGANICS

Aqueous

All values are ug/L.

Client Sample I.D.	Method Blank	FB032601		Quant. Limits with no Dilution
Lab Sample I.D.	SBLKPQ	010698A-10		
Method Blank I.D.	SBLKPQ	SBLKPQ		
Quant. Factor	1.00	1.10		
Cyclohexanone	U	U		10
Phenol	U	U		10
bis(2-Chloroethyl)ether	U	U		10
2-Chlorophenol	U	U		10
1,3-Dichlorobenzene	U	U		10
1,4-Dichlorobenzene	U	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	U	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	U	U		10
1,2,4-Trichlorobenzene	U	U		10
Naphthalene	U	U		10
4-Chloroaniline	U	U		10
Hexachlorobutadiene	U	U		10
4-Chloro-3-methylphenol	U	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		03/27/01		
Date Extracted	03/28/01	03/28/01		
Date Analyzed	04/03/01	04/03/01		

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-1.2
7001-0698A
ROUX ASSOCIATES-MA
TCL SEMI-VOLATILE ORGANICS

Aqueous

All values are ug/L.

Client Sample I.D.	Method Blank	FB032601		Quant. Limits with no Dilution
Lab Sample I.D.	SBLKPQ	010698A-10		
Method Blank I.D.	SBLKPQ	SBLKPQ		
Quant. Factor	1.00	1.10		
Acenaphthene	U	U		10
2,4-Dinitrophenol	U	U		50
4-Nitrophenol	U	U		50
Dibenzofuran	U	U		10
2,4-Dinitrotoluene	U	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	U	U		50
Phenanthrene	U	.8J		10
Anthracene	U	U		10
Di-n-butylphthalate	U	U		10
Fluoranthene	U	1J		10
Pyrene	U	.9J		10
Butylbenzylphthalate	.1J	.5JB		10
3,3'-Dichlorobenzidine	U	U		20
Benzo(a)anthracene	U	.3J		10
Chrysene	U	.5J		10
bis(2-Ethylhexyl)phthalate	U	3J		10
Di-n-octylphthalate	U	11		10
Benzo(b)fluoranthene	U	.6J		10
Benzo(k)fluoranthene	U	.5J		10
Benzo(a)pyrene	U	.4J		10
Indeno(1,2,3-cd)pyrene	U	.4J		10
Dibenzo(a,h)anthracene	U	U		10
Benzo(g,h,i)perylene	U	.4J		10
Date Received		03/27/01		
Date Extracted	03/28/01	03/28/01		
Date Analyzed	04/03/01	04/03/01		

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
7001-0698A
ROUX ASSOCIATES-MA
MISCELLANEOUS SEMI-VOLATILE ORGANICS

All values are ug/L.

Client Sample I.D.	Method Blank	SW-01	SW-10	Quant. Limits with no Dilution
Lab Sample I.D.	SBLKNQ	010698A-02	010698A-03	
Method Blank I.D.	SBLKNQ	SBLKNQ	SBLKNQ	
Quant. Factor	1.00	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	.2J	U	10
Diethylphthalate	U	.2J	.2J	10
Phenanthrene	U	2J	1J	10
Anthracene	U	.3J	.2J	10
Fluoranthene	U	3J	2J	10
Pyrene	U	2J	2J	10
Benzo(a)anthracene	U	.8J	.5J	10
Chrysene	U	1J	.9J	10
bis(2-Ethylhexyl)phthalate	.7J	2JB	1JB	10
Benzo(b)fluoranthene	U	2J	1J	10
Benzo(k)fluoranthene	U	1J	1J	10
Benzo(a)pyrene	U	1J	.7J	10
Indeno(1,2,3-cd)pyrene	U	.9J	.5J	10
Dibenzo(a,h)anthracene	U	.3J	U	10
Benzo(g,h,i)perylene	U	.9J	.5J	10
Date Received		03/24/01	03/24/01	
Date Extracted	03/27/01	03/27/01	03/27/01	
Date Analyzed	03/28/01	03/28/01	03/28/01	

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
7001-0698A
ROUX ASSOCIATES-MA
MISCELLANEOUS SEMI-VOLATILE ORGANICS

All values are ug/L.

Client Sample I.D.	Method Blank	SW-02	SW-03	Quant. Limits with no Dilution
Lab Sample I.D.	SBLKPQ	010698A-04	010698A-05	
Method Blank I.D.	SBLKPQ	SBLKPQ	SBLKPQ	
Quant. Factor	1.00	1.00	1.28	
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	1J	U	10
Phenanthrene	U	.2J	.5J	10
Anthracene	U	U	U	10
Fluoranthene	U	.3J	1J	10
Pyrene	U	.3J	.8J	10
Benzo(a)anthracene	U	U	.3J	10
Chrysene	U	.1J	.6J	10
bis(2-Ethylhexyl)phthalate	U	.6J	1J	10
Benzo(b)fluoranthene	U	U	.7J	10
Benzo(k)fluoranthene	U	U	.5J	10
Benzo(a)pyrene	U	U	.4J	10
Indeno(1,2,3-cd)pyrene	U	U	.3J	10
Dibenzo(a,h)anthracene	U	U	U	10
Benzo(g,h,i)perylene	U	U	.3J	10
Date Received		03/27/01	03/27/01	
Date Extracted	03/28/01	03/28/01	03/28/01	
Date Analyzed	04/03/01	04/03/01	04/03/01	

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
7001-0698A
ROUX ASSOCIATES-MA
MISCELLANEOUS SEMI-VOLATILE ORGANICS

All values are ug/L.

Client Sample I.D.	SW-05	SW-07		Quant. Limits with no Dilution
Lab Sample I.D.	010698A-06	010698A-08		
Method Blank I.D.	SBLKPQ	SBLKPQ		
Quant. Factor	1.19	1.00		
Cyclohexanone	.6J	16		10
4-Methylphenol	U	U		10
Naphthalene	U	U		10
2-Methylnaphthalene	U	U		10
Acenaphthylene	U	U		10
Acenaphthene	U	U		10
Fluorene	U	U		10
Diethylphthalate	U	.3J		10
Phenanthrene	U	2J		10
Anthracene	U	U		10
Fluoranthene	U	4J		10
Pyrene	U	3J		10
Benzo(a)anthracene	U	.6J		10
Chrysene	U	2J		10
bis(2-Ethylhexyl)phthalate	U	.9J		10
Benzo(b)fluoranthene	U	2J		10
Benzo(k)fluoranthene	U	2J		10
Benzo(a)pyrene	U	1J		10
Indeno(1,2,3-cd)pyrene	U	1J		10
Dibenzo(a,h)anthracene	U	.4J		10
Benzo(g,h,i)perylene	U	1J		10
Date Received	03/27/01	03/27/01		
Date Extracted	03/28/01	03/28/01		
Date Analyzed	04/03/01	04/03/01		

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
7001-0698A
ROUX ASSOCIATES-MA
TAL METALS (Dissolved)

All values are ug/L.

Client Sample I.D.	SW-09	SW-09 D	SW-09 S	SW-01
Lab Sample I.D.	010698A-01	010698A-01D	010698A-01S	010698A-02
Aluminum	NR	NR	NR	NR
Antimony	NR	NR	NR	NR
Arsenic	8.6B	15.7	52.4	3.5U
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

Aqueous

TABLE AS-1.1
7001-0698A
ROUX ASSOCIATES-MA
TAL METALS (Dissolved)

All values are ug/L.

Client Sample I.D.	SW-10	SW-02	SW-03	SW-05
Lab Sample I.D.	010698A-03	010698A-04	010698A-05	010698A-06
Aluminum	NR	NR	NR	NR
Antimony	NR	NR	NR	NR
Arsenic	3.5U	3.5U	10.6	3.5U
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

Aqueous

TABLE AS-1.2
7001-0698A
ROUX ASSOCIATES-MA
TAL METALS (Dissolved)

All values are ug/L.

Client Sample I.D.	SW-07	FB032601		
Lab Sample I.D.	010698A-08	010698A-10		
Aluminum	NR	NR		
Antimony	NR	NR		
Arsenic	3.7B	3.5U		
Barium	NR	NR		
Beryllium	NR	NR		
Cadmium	NR	NR		
Calcium	NR	NR		
Chromium	NR	NR		
Cobalt	NR	NR		
Copper	NR	NR		
Iron	NR	NR		
Lead	NR	NR		
Magnesium	NR	NR		
Manganese	NR	NR		
Mercury	NR	NR		
Nickel	NR	NR		
Potassium	NR	NR		
Selenium	NR	NR		
Silver	NR	NR		
Sodium	NR	NR		
Thallium	NR	NR		
Vanadium	NR	NR		
Zinc	NR	NR		

See Appendix for qualifier definitions

Aqueous

TABLE AS-1.3
7001-0698A
ROUX ASSOCIATES-MA
TAL METALS (Total)

All values are ug/L.

Client Sample I.D.	SW-09	SW-09 D	SW-09 S	SW-01
Lab Sample I.D.	010698A-01	010698A-01D	010698A-01S	010698A-02
Aluminum	163.B	209.	2060	NR
Antimony	3.6U	3.6U	470.	NR
Arsenic	14.2	12.0	51.5	3.6B
Barium	26.7B	26.2B	1850	NR
Beryllium	0.20U	0.20U	44.9	NR
Cadmium	0.30U	0.30U	4.4B	NR
Calcium	24800	25000	NR	NR
Chromium	2.3B	2.4B	186.	33.3
Cobalt	1.3B	1.5B	453.	NR
Copper	6.6B	7.2B	242.	NR
Iron	1490	1510	2350	NR
Lead	3.3	2.9B	21.6	34.9
Magnesium	3560B	3570B	NR	NR
Manganese	219.	222.	679.	NR
Mercury	0.10U	0.10U	0.98	0.10U
Nickel	2.7B	2.0B	462.	NR
Potassium	4780B	4570B	NR	NR
Selenium	3.6UN	3.6U	3.6UN	NR
Silver	1.0B	0.88B	48.6	NR
Sodium	46300	46500	NR	NR
Thallium	8.4B	12.9	52.9	NR
Vanadium	1.4B	0.91B	449.	NR
Zinc	82.2	83.6	537.	NR

See Appendix for qualifier definitions

Aqueous

TABLE AS-1.4
7001-0698A
ROUX ASSOCIATES-MA
TAL METALS (Total)

All values are ug/L.

Client Sample I.D.	SW-10	SW-02	SW-03	SW-05
Lab Sample I.D.	010698A-03	010698A-04	010698A-05	010698A-06
Aluminum	NR	NR	NR	NR
Antimony	NR	NR	NR	NR
Arsenic	7.6B	3.5U	22.0	3.5U
Barium	NR	NR	NR	NR
Beryllium	NR	NR	NR	NR
Cadmium	NR	NR	NR	NR
Calcium	NR	NR	NR	NR
Chromium	33.9	1.2B	3.6B	14.0
Cobalt	NR	NR	NR	NR
Copper	NR	NR	NR	NR
Iron	NR	NR	NR	NR
Lead	35.2	1.8U	3.0	28.8
Magnesium	NR	NR	NR	NR
Manganese	NR	NR	NR	NR
Mercury	0.16B	0.10U	0.10U	0.11B
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

Aqueous

TABLE AS-1.5
7001-0698A
ROUX ASSOCIATES-MA
TAL METALS (Total)

All values are ug/L.

Client Sample I.D.	SW-06	SW-07	SW-09A	FB032601
Lab Sample I.D.	010698A-07	010698A-08	010698A-09	010698A-10
Aluminum	NR	NR	NR	24.0U
Antimony	NR	NR	NR	3.6U
Arsenic	8.4B	7.7B	3.5U	3.5U
Barium	NR	NR	NR	2.1B
Beryllium	NR	NR	NR	0.20U
Cadmium	NR	NR	NR	0.30U
Calcium	NR	NR	NR	1280B
Chromium	23.8	7.0B	1.8B	0.30U
Cobalt	NR	NR	NR	0.72B
Copper	NR	NR	NR	1.4B
Iron	NR	NR	NR	17.3B
Lead	63.1	12.6	2.5B	1.8U
Magnesium	NR	NR	NR	255.B
Manganese	NR	NR	NR	3.0B
Mercury	0.10U	0.10U	0.10U	0.10U
Nickel	NR	NR	NR	0.70U
Potassium	NR	NR	NR	483.B
Selenium	NR	NR	NR	3.6UN
Silver	NR	NR	NR	0.67B
Sodium	NR	NR	NR	445.B
Thallium	NR	NR	NR	7.4B
Vanadium	NR	NR	NR	0.40U
Zinc	NR	NR	NR	7.3B

See Appendix for qualifier definitions

1
WET CHEM ANALYSIS DATA SHEET

SAMPLE NO.

SW-09

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 0698A SAS No.: _____ SDG No.: A0698

Matrix (soil/water): WATER Lab Sample ID: 010698A-01

% Solids: 0 Date Received: 03/24/01

CAS No.	Analyte	Concentration	C	Units	Q	M
	TSS	7.2		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.: 0698A SAS No.: _____ SDG No.: A0698

Matrix (soil/water): WATER Lab Sample ID: 010698A-02

% Solids: 0 Date Received: 03/24/01

CAS No.	Analyte	Concentration	C	Units	Q	M
	TSS	62.8		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.: 0698A SAS No.: _____ SDG No.: A0698

Matrix (soil/water): WATER Lab Sample ID: 010698A-03

% Solids: 0 Date Received: 03/24/01

CAS No.	Analyte	Concentration	C	Units	Q	M
	TSS	80.6		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.: 0698A SAS No.: _____ SDG No.: A0698

Matrix (soil/water): WATER Lab Sample ID: 010698A-04

% Solids: 0 Date Received: 03/27/01

CAS No.	Analyte	Concentration	C	Units	Q	M
	TSS	21.6		mg/L		G

Comments:

FORM I - WC

1
WET CHEM ANALYSIS DATA SHEET

SAMPLE NO.

SW-03

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 0698A SAS No.: _____ SDG No.: A0698

Matrix (soil/water): WATER Lab Sample ID: 010698A-05

% Solids: 0 Date Received: 03/27/01

CAS No.	Analyte	Concentration	C	Units	Q	M
	TSS	35.6		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.: 0698A SAS No.: _____ SDG No.: A0698

Matrix (soil/water): WATER Lab Sample ID: 010698A-06

% Solids: 0 Date Received: 03/27/01

CAS No.	Analyte	Concentration	C	Units	Q	M
	TSS	87.2		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.: 0698A SAS No.: _____ SDG No.: A0698

Matrix (soil/water): WATER Lab Sample ID: 010698A-07

% Solids: 0 Date Received: 03/27/01

CAS No.	Analyte	Concentration	C	Units	Q	M
	TSS	351.		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.: 0698A SAS No.: _____ SDG No.: A0698

Matrix (soil/water): WATER Lab Sample ID: 010698A-08

% Solids: 0 Date Received: 03/27/01

CAS No.	Analyte	Concentration	C	Units	Q	M
	TSS	65.8		mg/L		G

Comments:

FORM I - WC

1
WET CHEM ANALYSIS DATA SHEET

SAMPLE NO.

SW-09A

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 0698A SAS No.: _____ SDG No.: A0698

Matrix (soil/water): WATER Lab Sample ID: 010698A-09

% Solids: 0 Date Received: 03/27/01

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

Comments:

SEVERN TRENT SERVICES

STL Connecticut

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).

SEVERN TRENT SERVICES

STL Connecticut

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 February 2001)

State	Responsible 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 NELAC	10602
North Carolina	Division of Environmental Management	Wastewater	388
Rhode Island	Department of Health	Chemistry...Non-Potable Water and Wastewater	A43
Utah	Department of Health	RCRA	2032614458
Washington	Department of Ecology	Wastewater/Hazardous Waste	C231
Wisconsin	Department of Natural Resources	Wastewater	998355710

7001-0698A
ROUX ASSOCIATES-MA
SAMPLE SUMMARY

CLIENT ID	LAB ID	MATRIX	DATE COLLECTED	DATE RECEIVED
SW-09	010698A-01	WATER	03/23/01	03/24/01
SW-09	010698A-01D	WATER	03/23/01	03/24/01
SW-09	010698A-01MS	WATER	03/23/01	03/24/01
SW-09	010698A-01MSD	WATER	03/23/01	03/24/01
SW-09	010698A-01S	WATER	03/23/01	03/24/01
SW-01	010698A-02	WATER	03/23/01	03/24/01
SW-10	010698A-03	WATER	03/23/01	03/24/01
SW-02	010698A-04	WATER	03/26/01	03/27/01
SW-03	010698A-05	WATER	03/23/01	03/27/01
SW-05	010698A-06	WATER	03/23/01	03/27/01
SW-06	010698A-07	WATER	03/23/01	03/27/01
SW-07	010698A-08	WATER	03/23/01	03/27/01
SW-09A	010698A-09	WATER	03/26/01	03/27/01
FB032601	010698A-10	WATER	03/26/01	03/27/01

STL CT ANALYTICAL SUMMARY

Client ID: FB032601, SW-01, SW-02, SW-03, SW-05, SW-06, SW-07, SW-09, SW-09A, SW-10
Job Number: 7001-0698A

Date: 4/11/101

Qty	Matrix	Analysis	Description
1	None	DISK	Diskette Prep.
8	WATER	AS-SW846	Arsenic
10	WATER	AS-SW846-D	Arsenic (Dissolved)
6	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
10	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

ROUX

CHAIN OF CUSTODY

№ 3973 Y

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

PAGE OF

PROJECT NAME: Industriplex - Solutia
PROJECT NUMBER: 06626M32
PROJECT LOCATION: Woburn, MA
SAMPLER(S): LC/HT

ANALYSES

SAMPLE DESIGNATION/LOCATION		DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	TSS	DBS. As	Total As, Cr, Pb, Hg	TAL METALS	PAH, Diethylphthalate, 4-Methylphenol, Cyclohexane, bis 2-ethylhexylphthalate	TCL SVOC's + Cyclohexane	TOTAL BOTTLES	NOTES
SW-09	01	3/23/01	1030	SW	2	3		3		6	13	Triple Volume for MS/MSD
SW-01	02	3/23/01	1130	SW	1	1	1		2		5	
SW-10	03	3/23/01	1130	SW	1	1	1		2		5	

7001-0698A

PASSED RAD SCREEN 0556

RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N	RECEIVED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N
Heather A Trent		3/23/01	1410		[signature]	SR	3/23/01	2:10	
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N	RECEIVED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N
					Alex C. Yurowski	S-T-L	3/24/01	11:00	Y OR N
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 * 7 day holding time for SVOC extraction
** Deliverables for Tier II Data Validation

0032

2 COOLERS

Analysis Request/ Environmental Services Chain of Cu

Lancaster Laboratories
Where quality is a science.

For Lancaster Laboratories use onl

Acct. #

Sample #

7001-0698A

Please print. Instructions on reverse side correspond with circled numbers.

(1)

Client: ROUX Acct. #: X

Project Name/#: SOLUTIA - ISRT 06626M32 PWSID #:

Project Manager: LARRY MCTIERNAN P.O.#

Sampler: MARTIN HAINES Quote #:

Name of state where samples were collected: MA

For lab use o

FSC:

SCR #: 11 50

(2)

Sample Identification	(LP)	Date Collected	Time Collected	(3) Grab	Composite	Soil	Water	Other	Total # of Containers	TSS	Total As, Cr, Pb, Hg	Diss. As	TAL Metals	TCL SVOCs + Cyanide, Hexavalent Chromium, Fluoride, Sulfate, Sulfide, Nitrate, Nitrite, Ortho-Phosphate	Remarks
SW-02	04	3/26/01	1445		X		X		5	✓	✓	✓		✓	
SW-03	05	3/26/01	1455		X		X		4	✓	✓	✓		✓	
SW-05	06	3/26/01	1510		X		X		4	✓	✓	✓		✓	SW-03, SW-05, SW-06
SW-06	07	3/26/01	1505		X		X		2	✓	✓				SW-07 SAMPLES
SW-07	08	3/26/01	1425		X		X		5	✓	✓	✓		✓	COLLECTED AND ICED
SW-09A	09	3/26/01	1535		X		X		2	✓	✓				ON 3/23/01, BOTTLED
FIELD BLANK	10	3/26/01	1535		X		X		4			✓	✓	✓	ON 3/20/01. PLEASE
															NOTE REDUCED HOLDING
															TIME.
															PASSED RAD SCREEN

ALL SAMPLES WITH REDUCED VOLUME IF VOLUME IS INADEQUATE FOR TOTAL METALS PLEASE START WITH ARSENIC.

0300

(7) **Turnaround Time Requested** (TAT) (please circle): Normal Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)
Date results are needed:
Rush results requested by (please circle): Phone Fax
Phone #: Fax #:

(8) **Data Package Options** (please circle if requested)
QC Summary Type VI (Raw Data)
Type I (Tier I) GLP
Type II (Tier II) Other
Type III (NJ Red. Del.)
Type IV (CLP)

SDG Complete? Yes No

Site-specific QC required? Yes No
(If yes, indicate QC sample and submit triplicate volume.)
Internal Chain of Custody required? Yes No

Relinquished by:	Date	Time	Received by:	Date	Time
	3-26-01	1225			
	3/26/01	1800	Alex C. Yaunowsky	03/27/01	09:30

(9)

SAMPLE RECEIPT CHECKLIST

STL CT Job No. 7001-0698A Date Received: 03-24-01

Client: ROUX Project: _____

A. Preliminary Examination

Cooler opened by: [signature] Signature: _____

1. Did cooler(s) come with a shipping airbill?..... (Yes) No N/A

   Name of courier and/or airbill no. FE

2. Were custody seals on outside of cooler(s)?..... (Yes) No N/A

3. Were custody seals tamper evident?..... Yes (No) N/A

   Seal Date _____

4. Were custody seals intact upon arrival to lab?..... (Yes) No N/A

5. Were samples screened for radioactivity and COC stamped?..... (Yes) No N/A

6. Were COCs included, filled out properly in ink, and signed in the field?... (Yes) No N/A

7. Were COCs signed and dated properly upon lab receipt?..... (Yes) No N/A

8. If required, did cooler(s) show evidence of cooling?..... (Yes) No N/A

   Type of coolant used: Loose ice (Bagged ice) Ice packs Other: _____

   Temperature of cooler(s) on receipt: 05°C

   Source of temperature reading (check one) Temp blank (Sample)

9. If necessary, was the lab notified of any short holding times?..... Yes (No) N/A

10. Initial and date this form to acknowledge receipt of cooler(s): (initials) ML (Date) 03-24-01

B. Log-in Date of login: 03-24-01

Logged in by: Mike LeBlanc Signature: [signature]

10. Describe type of packing in cooler(s): (Bubble wrap) Vermiculite Other _____

12. Did all bottles arrive intact with legible labels in good condition?..... (Yes) No N/A

13. Was all required bottle label information complete?..... (Yes) No N/A

14. Did all bottle labels agree with COCs?..... (Yes) No N/A

15. Were samples checked for residual chlorine and correct preservatives? (Yes) No N/A

    Was Preservative Log filled out (Yes) No N/A

16. Was enough volume submitted for the indicated tests?..... (Yes) No N/A

17. Were bubbles present in any VOA vials?..... Yes (No) N/A

    If yes, list by sample number _____

18. If necessary, has CAR been issued to QA manager?..... Yes (No) N/A

SAMPLE RECEIPT CHECKLIST

STL CT Job No. 7001-0698A Date Received: 03-27-01

Client: Rock Project: —

A. Preliminary Examination

Cooler opened by: Alex C. Yaworowski Signature: [redacted]

1. Did cooler(s) come with a shipping airbill?..... Yes No N/A

   Name of courier and/or airbill no. FedEx

2. Were custody seals on outside of cooler(s)?..... Yes No N/A

3. Were custody seals tamper evident?..... Yes No N/A

   Seal Date_____

4. Were custody seals intact upon arrival to lab?..... Yes No N/A

5. Were samples screened for radioactivity and COC stamped?..... Yes No N/A

6. Were COCs included, filled out properly in ink, and signed in the field?... Yes No N/A

7. Were COCs signed and dated properly upon lab receipt?..... Yes No N/A

8. If required, did cooler(s) show evidence of cooling?..... Yes No N/A

   Type of coolant used: Loose ice Bagged ice Ice packs Other:_____

   Temperature of cooler(s) on receipt: 03°C

   Source of temperature reading (check one) Temp blank Sample

9. If necessary, was the lab notified of any short holding times?..... Yes No N/A

10. Initial and date this form to acknowledge receipt of cooler(s): (initials) A.Y. (Date) 03-27-01

B. Log-in Date of login: 03-27-01

Logged in by: Alex Yaworowski Signature: Alex C. Yaworowski

10. Describe type of packing in cooler(s): Bubble wrap Vermiculite Other Ice

12. Did all bottles arrive intact with legible labels in good condition?..... Yes No N/A

13. Was all required bottle label information complete?..... Yes No N/A

14. Did all bottle labels agree with COCs?..... Yes No N/A

15. Were samples checked for residual chlorine and correct preservatives? Yes No N/A

    Was Preservative Log filled out Yes No N/A

16. Was enough volume submitted for the indicated tests?..... Yes No N/A

17. Were bubbles present in any VOA vials?..... Yes No N/A

    If yes, list by sample number_____

18. If necessary, has CAR been issued to QA manager?..... Yes No N/A

FedEx Express *USA Airbill*

FedEx Tracking Number 8257 6144 3066

RECIPIENT: PEEL HERE

1 From This portion can be removed for Recipient's records.

Date 3/21/01 FedEx Tracking Number 825761443066

Sender's Name L. McTIERNAN Phone 781 270 6600

Company ROUX ASSOCIATES

Address 25 CORPORATE DR STE 230 Dept./Floor/Suite/Room

City BURLINGTON State MA ZIP 01803

2 Your Internal Billing Reference 06626M32

3 To

Recipient's Name SAMPLE RECIEVING Phone 203 929-8140

Company STL

Address 128 LONG HILL CROSS ROAD

We cannot deliver to P.O. boxes or P.O. ZIP codes. To "HOLD" at FedEx location, print FedEx address.

Dept./Floor/Suite/Room

City SHELTON State CONNECTICUT ZIP 06484

8257 6144 3066

L

0165526285

Recipient's Copy

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

6 Special Handling — Include FedEx address in Section 3.

- [ ] SATURDAY Delivery — Available only for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- [ ] SUNDAY Delivery — Available only 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 only 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 ____ x ____ kg
- [ ] 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
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check
- [ ] Obtain Recip. Acct. No.

065

Total Packages 1 Total Weight 65 Total Charges

Credit Card Auth.

Our liability is limited to $100 unless you declare a higher value. See the *FedEx Service Guide* for details.

8 Release Signature — You may 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? Visit our Web site at www.fedex.com or call 1-800-Go-FedEx® (800)463-3339

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402

0036

FedEx Express USA Airbill

FedEx Tracking Number 8257 6144 3044

1 From This portion can be removed for Recipient's records.

Date 2/26/01 FedEx Tracking Number 825761443044

Sender's Name L. McTiernan Phone 781 270 6600

Company ROUX ASSOCIATES

Address 25 CORPORATE DR STE 230 Dept./Floor/Suite/Room

BURLINGTON State MA ZIP 01803

RECIPIENT: PEEL HERE

2 Your Internal Billing Reference 066216 m 32

3 To

Recipient's Name SAMPLE RECIEVING Phone 203 929-8140

Company STL

Address 128 LONG HILL CROSS ROAD

To "HOLD" at FedEx location, print FedEx address. We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

City SHELTON State CONNECTICUT ZIP 06484

8257 6144 3044

0165526285

Recipient's Copy

4a Express Package Service — Packages up to 150 lbs. Delivery commitments 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 Envelope/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 Envelope/Letter*
- [ ] FedEx Pak*
- [x] Other Pkg. — Includes FedEx Box, FedEx Tube, and customer pkg.

6 Special Handling — Include FedEx address in Section 3.

- [ ] SATURDAY Delivery — Available only for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- [ ] SUNDAY Delivery — Available only 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 only 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 ____ 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
- [ ] Recipient
- [x] Third Party
- [ ] Credit Card
- [ ] Cash/Check
- [ ] Obtain Recip. Acct. No.

1065

Total Packages	Total Weight		Total Charges
1	58		Credit Card Auth.

†Our liability is limited to $100 unless you declare a higher value. See the *FedEx Service Guide* 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? Visit our Web site at www.fedex.com or call 1-800-Go-FedEx® (800)463-3339.

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402

0037

STL/CT PRESERVATIVE RECORD

Job Number: 7001-0698A
Client: ROUX
Client Project:

Lab Number	Preservative	pH	Adjustment	Chlorine Residual	Initials	Date
01	HNO3 X6	<2		passed	ML	03-24-01
02-03	HNO3 X 2	<2				

ML 03-24-01

STL Form# SMF00202.CT

STL/CT PRESERVATIVE RECORD

Job Number: 7001-0698A
Client: Roux
Client Project: Solutia - 15RT0662GM3

Lab Number	Preservative	pH	Adjustment	Chlorine Residual	Initials	Date
04-10	HNO_3	<2			A.Y.	03-27-01

A.Y. 03-27-01

STL Form# SMF00202.CT

0039

Severn Trent - Connecticut
Internal Chain-of-Custody

Client: ROUX

STL Job #: 7001-0698A

Trip Blank: —

Date Received: 03-24-01

QC: 01

Sample #s: 01-03

Project #: Industriplex - Solutia

Locations: 98

Laboratory Sample #	Relinquished by	Accepted by	Date	Time	Reason	Relinquished by	Accepted by	Date	Time
1-3	ML	SW	3/21	8:30	TBS	SW	ML	3/22	12:00
1-3, 1,1	ML	RSP	3/27	7:25	GA	USCO			
~~1-3, 1,1~~		~~RSP~~	~~3/28~~	~~7:30~~	~~EXC~~	~~USCO~~			
1-3	ML	GB	3/29	1330	Hg				
1-3	ML	Dolan	3/31	1700	MTLS	Dolan	ML	3/31	1800

STL Form# SMF00505.CT

0040

Severn Trent - Connecticut
Internal Chain-of-Custody

Client: Roux

Trip Blank: ——

QC: ——

Project #: Solutia - 15RT 0662GM32

S.H.

STL Job #: 7001-0698A

Date Received: 03-27-01

Sample #s: 04-10

Locations: 92

Laboratory Sample #	Relinquished by	Accepted by	Date	Time	Reason	Relinquished by	Accepted by	Date	Time
4-9	ML	SS	3/27	10-	TSS	SS	ML	3/27	24
4-6, 8, 10	ML	SP	3/28	7:30	Ext	USED			
4-10	ML	GB	3/29	1330	HS	GB	ML	3/29	1530
4-10	ML	[illegible]	3/31	1700	MTLS	[illegible]	ML	3/31	1800

STL Form# SMF00505.CT

0041

STL

GC-GC/MS Extract Chain of Custody

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

CLIENT: ROUX

JOB NO: 0698A

SAMPLE IN (Extractions)					SAMPLE IN (Extractions)				
Sample(s)	Date	Time	Sign.	Location	Sample(s)	Date	Time	Sign.	Location
01-03 01ms 01msn	3/27	3:20	[illegible]	29					

SAMPLE OUT					SAMPLE IN			
Sample(s)	Date	Time	Code	Sign.	Date	Time	Location	Sign.
01-03-01RC	03/28/01	1230	AN	EM	03/28/01	1305	29	EM
	—							

Codes: SC = Screening AN = Analysis

Verified By: [illegible] Date: 4/7/01

Lab Form: SMF01201.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: 0698A

SAMPLE IN (Extractions)					SAMPLE IN (Extractions)				
Sample(s)	Date	Time	Sign.	Location	Sample(s)	Date	Time	Sign.	Location
4-6,8,10	03/29/01	18:20	SBW	29					

SAMPLE OUT					SAMPLE IN			
Sample(s)	Date	Time	Code	Sign.	Date	Time	Location	Sign.
04-06,08,10	04/03/01	10:30	AN	EM	04/03/01	1130	29	EM

Codes: SC = Screening AN = Analysis

Verified By: [signature]

Date: 4/7/01

Lab Form: SMF01201.CT

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 7000-0698A Sample Numbers 1-10

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			
	Marlyn Colon	3/31/01	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			
	Walter Fitzsimmons	4/4/01	ICP
			FLAME
			FURN
			MERCURY
	Chemist	Date(s)	

I have reviewed and authorize the release of this job:

Complete David W. Hall 4/5/01
Supervisor Date

Batch Assignment

Committed To *Your* Success

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

0045

CHAIN OF CUSTODY
ATOMIC SPECTROSCOPY DEPARTMENT

Job Number 010698A 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
	Chemist	03-28-01 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
	Chemist	03-30-01 Date(s)	MERCURY

I have reviewed and authorize the release of this job:

Complete Supervisor 4/5/01 Date

Batch Assignment

IEA / CT
LABORATORY CHRONICLE

SAMPLE PREPARATION AND ANALYSIS SUMMARY
INORGANIC ANALYSIS

JOB #: 7001-0698A

SAMPLE ID	MATRIX	LIST REQUESTED	DATE RECEIVED	DATE DIGESTED	DATE ANALYZED
SW-09	WATER	AS-SW846-D	03/24/01	3/31/01	4/3/01
SW-09	WATER	MET-SW846-TAL	03/24/01		
SW-01	WATER	AS-SW846	03/24/01		
SW-01	WATER	AS-SW846-D	03/24/01		
SW-01	WATER	CR-SW846	03/24/01		
SW-01	WATER	HG-SW846	03/24/01		
SW-01	WATER	PB-SW846	03/24/01		
SW-10	WATER	AS-SW846	03/24/01		
SW-10	WATER	AS-SW846-D	03/24/01		
SW-10	WATER	CR-SW846	03/24/01		
SW-10	WATER	HG-SW846	03/24/01		
SW-10	WATER	PB-SW846	03/24/01		
SW-02	WATER	AS-SW846	03/27/01		
SW-02	WATER	AS-SW846-D	03/27/01		
SW-02	WATER	CR-SW846	03/27/01		
SW-02	WATER	HG-SW846	03/27/01		
SW-02	WATER	PB-SW846	03/27/01		
SW-03	WATER	AS-SW846	03/27/01		
SW-03	WATER	AS-SW846-D	03/27/01		
SW-03	WATER	CR-SW846	03/27/01		
SW-03	WATER	HG-SW846	03/27/01		
SW-03	WATER	PB-SW846	03/27/01		

Section Supervisor (signature) [signature]

Review & Approval (printed name) D. Wolfrid

(Date) 4/5/01

QC Supervisor (signature) _____

Review & Approval (printed name) _____

(Date) __/__/__

IEA / CT
LABORATORY CHRONICLE

SAMPLE PREPARATION AND ANALYSIS SUMMARY
INORGANIC ANALYSIS

JOB #: **7001-0698A**

SAMPLE ID	MATRIX	LIST REQUESTED	DATE RECEIVED	DATE DIGESTED	DATE ANALYZED
SW-05	WATER	AS-SW846	03/27/01	3/31/01	4/3/01
SW-05	WATER	AS-SW846-D	03/27/01		
SW-05	WATER	CR-SW846	03/27/01		
SW-05	WATER	HG-SW846	03/27/01		
SW-05	WATER	PB-SW846	03/27/01		
SW-06	WATER	AS-SW846	03/27/01		
SW-06	WATER	CR-SW846	03/27/01		
SW-06	WATER	HG-SW846	03/27/01		
SW-06	WATER	PB-SW846	03/27/01		
SW-07	WATER	AS-SW846	03/27/01		
SW-07	WATER	AS-SW846-D	03/27/01		
SW-07	WATER	CR-SW846	03/27/01		
SW-07	WATER	HG-SW846	03/27/01		
SW-07	WATER	PB-SW846	03/27/01		
SW-09A	WATER	AS-SW846	03/27/01		
SW-09A	WATER	CR-SW846	03/27/01		
SW-09A	WATER	HG-SW846	03/27/01		
SW-09A	WATER	PB-SW846	03/27/01		
FB032601	WATER	AS-SW846-D	03/27/01		
FB032601	WATER	MET-SW846-TAL	03/27/01		

Section Supervisor (signature) [signature]

Review & Approval (printed name) D. Wolfe

(Date) 4/5/01

QC Supervisor (signature) _____

Review & Approval (printed name) _____

(Date) __/__/__

2C
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 0698A SAS No.: _____ SDG No.: A0698

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	S7 (2CP) #	S8 (DCB) #	TOT OUT
01	SBLKNQ	74	83	63	27	36	85			0
02	SBLKNQFMS	83	85	88	31	42	87			0
03	SW-09	78	57	54	23	31	73			0
04	SW-09MS	74	59	51	26	34	73			0
05	SW-09MSD	74	59	56	28	36	74			0
06	SW-01	86	66	62	26	33	80			0
07	SW-10	80	59	61	24	32	76			0
08	SBLKPQ	67	71	54	25	33	62			0
09	SBLKPQFMS	82	67	78	26	43	66			0
10	SW-02	91	50	57	24	32	68			0
11	SW-03	69	40*	54	31	31	56			1
12	SW-05	75	61	57	26	34	66			0
13	SW-07	91	54	58	26	33	68			0
14	FB032601	92	47	64	28	38	66			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.: 0698A SAS No.: _____ SDG No.: A0698

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	24	24	12-110
2-Chlorophenol	100	0	55	55	27-123
1,4-Dichlorobenzene	50	0	29	58	36- 97
N-Nitroso-di-n-prop.(1)	50	0	41	82	41-116
1,2,4-Trichlorobenzene	50	0	37	74	39- 98
4-Chloro-3-methylphenol	100	0	61	61	23- 97
Acenaphthene	50	0	30	60	46-118
4-Nitrophenol	100	0	26	26	10- 80
2,4-Dinitrotoluene	50	0	34	68	24- 96
Pentachlorophenol	100	0	70	70	9-103
Pyrene	50	1	31	60	26-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	100	25	25	4	42	12-110
2-Chlorophenol	100	58	58	5	40	27-123
1,4-Dichlorobenzene	50	29	58	0	28	36- 97
N-Nitroso-di-n-prop.(1)	50	42	84	2	38	41-116
1,2,4-Trichlorobenzene	50	36	72	3	28	39- 98
4-Chloro-3-methylphenol	100	65	65	6	42	23- 97
Acenaphthene	50	31	62	3	31	46-118
4-Nitrophenol	100	29	29	11	50	10- 80
2,4-Dinitrotoluene	50	35	70	3	38	24- 96
Pentachlorophenol	100	72	72	3	50	9-103
Pyrene	50	32	62	3	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: _____

WATER SEMIVOLATILE SPIKE/SPIKE DUPLICATE RECOVERY SUMMARY

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 0698A SAS No.: _____ SDG No.: A0698

Matrix Spike - EPA Sample No.: SBLKPQ

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	SPIKE CONCENTRATION (ug/L)	SPIKE % REC #	QC. LIMITS REC.
Phenol	40	0	12	30	24-57
bis(2-Chloroethyl)ether	40	0	21	52	49-133
2-Chlorophenol	40	0	36	90	60-112
1,3-Dichlorobenzene	40	0	24	60	18-143
1,4-Dichlorobenzene	40	0	23	58	21-138
Benzyl alcohol	40	0	24	60	39-117
1,2-Dichlorobenzene	40	0	26	65	21-143
2-Methylphenol	40	0	18	45*	49-91
bis(2-Chloroisopropyl)ether	40	0	31	78	54-130
4-Methylphenol	40	0	18	45*	48-95
N-Nitroso-di-n-propylamine	40	0	25	62	46-129
Hexachloroethane	40	0	25	62	8-144
Nitrobenzene	40	0	28	70	46-141
Isophorone	40	0	29	72	52-140
2-Nitrophenol	40	0	38	95	69-123
2,4-Dimethylphenol	40	0	34	85	62-121
Benzoic acid	120	0	3	2	0-25
bis(2-Chloroethoxy)methane	40	0	25	62	53-142
2,4-Dichlorophenol	40	0	38	95	66-122
1,2,4-Trichlorobenzene	40	0	24	60	30-142
Naphthalene	40	0	32	80	43-144
4-Chloroaniline	40	0	30	75	48-150
Hexachlorobutadiene	40	0	32	80	5-169
4-Chloro-3-methylphenol	40	0	38	95	63-119
2-Methylnaphthalene	40	0	27	68	37-137
Hexachlorocyclopentadiene	40	0	13	32	1-139
2,4,6-Trichlorophenol	40	0	31	78	70-121
2,4,5-Trichlorophenol	40	0	22	55*	71-124
2-Chloronaphthalene	40	0	34	85	52-163
2-Nitroaniline	40	0	27	68	60-139

Column to be used to flag recovery with an asterisk

* Values outside of QC limits.

Spike Recovery: 09 out of 65 outside limits

COMMENTS: HR 4/7/01

3C

WATER SEMIVOLATILE SPIKE/SPIKE DUPLICATE RECOVERY SUMMARY

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 0698A SAS No.: _____ SDG No.: A0698

Matrix Spike - EPA Sample No.: SBLKPQ

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	SPIKE CONCENTRATION (ug/L)	SPIKE % REC #	QC. LIMITS REC.
Dimethylphthalate	40	0	24	60*	64-137
Acenaphthylene	40	0	28	70	52-132
2,6-Dinitrotoluene	40	0	23	58*	60-142
3-Nitroaniline	40	0	21	52*	65-162
Acenaphthene	40	0	28	70	56-144
2,4-Dinitrophenol	40	0	44	110	70-139
4-Nitrophenol	40	0	14	35	21-65
Dibenzofuran	40	0	27	68	57-136
2,4-Dinitrotoluene	40	0	25	62	57-131
Diethylphthalate	40	0	22	55*	62-132
4-Chlorophenyl-phenylether	40	0	22	55	55-136
Fluorene	40	0	30	75	59-131
4-Nitroaniline	40	0	26	65*	67-155
4,6-Dinitro-2-methylphenol	40	0	51	128	77-164
N-Nitrosodiphenylamine (1)	40	0	38	95	67-149
4-Bromophenyl-phenylether	40	0	30	75	57-150
Hexachlorobenzene	40	0	39	98	53-153
Pentachlorophenol	40	0	47	118	63-125
Phenanthrene	40	0	38	95	83-124
Anthracene	40	0	39	98	66-138
Di-n-butylphthalate	40	0	31	78	65-146
Fluoranthene	40	0	35	88	63-145
Pyrene	40	0	37	92	66-152
Butylbenzylphthalate	40	.1	33	82	64-158
3,3'-Dichlorobenzidine	40	0	27	68*	69-159
Benzo(a)anthracene	40	0	33	82	62-151
Chrysene	40	0	32	80	72-141
bis(2-Ethylhexyl)phthalate	40	0	30	75	63-148
Di-n-octylphthalate	40	0	28	70	65-154
Benzo(b)fluoranthene	40	0	32	80	42-172

Column to be used to flag recovery with an asterisk

* Values outside of QC limits.

Spike Recovery: 19 out of 65 outside limits

COMMENTS: AHR 4/7/01

FORM III SV-1

3C
WATER SEMIVOLATILE SPIKE/SPIKE DUPLICATE RECOVERY SUMMARY

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 0698A SAS No.: _____ SDG No.: A0698

Matrix Spike - EPA Sample No.: SBLKPQ

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	SPIKE CONCENTRATION (ug/L)	SPIKE % REC #	QC. LIMITS REC.
Benzo(k)fluoranthene	40	0	32	80	55-150
Benzo(a)pyrene	40	0	33	82	68-147
Indeno(1,2,3-cd)pyrene	40	0	41	102	52-157
Dibenzo(a,h)anthracene	40	0	40	100	25-159
Benzo(g,h,i)perylene	40	0	44	110	56-166
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Column to be used to flag recovery with an asterisk

* Values outside of QC limits.

Spike Recovery: 09 out of 65 outside limits

COMMENTS: HR 4/7/01

FORM III SV-1

3C
WATER SEMIVOLATILE SPIKE/SPIKE DUPLICATE RECOVERY SUMMARY

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 0698A SAS No.: _____ SDG No.: A0698

Matrix Spike - EPA Sample No.: SBLKNQ

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	24	60	49-133
2-Chlorophenol	40	0	38	95	60-112
1,3-Dichlorobenzene	40	0	26	65	18-143
1,4-Dichlorobenzene	40	0	25	62	21-138
Benzyl alcohol	40	0	24	60	39-117
1,2-Dichlorobenzene	40	0	30	75	21-143
2-Methylphenol	40	0	22	55	49-91
bis(2-Chloroisopropyl)ether	40	0	27	68	54-130
4-Methylphenol	40	0	18	45*	48-95
N-Nitroso-di-n-propylamine	40	0	24	60	46-129
Hexachloroethane	40	0	28	70	8-144
Nitrobenzene	40	0	30	75	46-141
Isophorone	40	0	31	78	52-140
2-Nitrophenol	40	0	39	98	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	26	65	53-142
2,4-Dichlorophenol	40	0	40	100	66-122
1,2,4-Trichlorobenzene	40	0	25	62	30-142
Naphthalene	40	0	34	85	43-144
4-Chloroaniline	40	0	32	80	48-150
Hexachlorobutadiene	40	0	36	90	5-169
4-Chloro-3-methylphenol	40	0	41	102	63-119
2-Methylnaphthalene	40	0	30	75	37-137
Hexachlorocyclopentadiene	40	0	16	40	1-139
2,4,6-Trichlorophenol	40	0	40	100	70-121
2,4,5-Trichlorophenol	40	0	29	72	71-124
2-Chloronaphthalene	40	0	44	110	52-163
2-Nitroaniline	40	0	34	85	60-139

Column to be used to flag recovery with an asterisk

* Values outside of QC limits.

Spike Recovery: 02 out of 65 outside limits

COMMENTS: JHR 4/7/01

FORM III SV-1

3C

WATER SEMIVOLATILE SPIKE/SPIKE DUPLICATE RECOVERY SUMMARY

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 0698A SAS No.: _____ SDG No.: A0698

Matrix Spike - EPA Sample No.: SBLKNQ

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	SPIKE CONCENTRATION (ug/L)	SPIKE % REC #	QC. LIMITS REC.
Dimethylphthalate	40	0	32	80	64-137
Acenaphthylene	40	0	34	85	52-132
2,6-Dinitrotoluene	40	0	33	82	60-142
3-Nitroaniline	40	0	36	90	65-162
Acenaphthene	40	0	36	90	56-144
2,4-Dinitrophenol	40	0	53	132	70-139
4-Nitrophenol	40	0	21	52	21-65
Dibenzofuran	40	0	33	82	57-136
2,4-Dinitrotoluene	40	0	33	82	57-131
Diethylphthalate	40	0	30	75	62-132
4-Chlorophenyl-phenylether	40	0	29	72	55-136
Fluorene	40	0	39	98	59-131
4-Nitroaniline	40	0	35	88	67-155
4,6-Dinitro-2-methylphenol	40	0	57	142	77-164
N-Nitrosodiphenylamine (1)	40	0	42	105	67-149
4-Bromophenyl-phenylether	40	0	28	70	57-150
Hexachlorobenzene	40	0	44	110	53-153
Pentachlorophenol	40	0	53	132*	63-125
Phenanthrene	40	0	42	105	83-124
Anthracene	40	0	42	105	66-138
Di-n-butylphthalate	40	.3	35	87	65-146
Fluoranthene	40	0	39	98	63-145
Pyrene	40	0	42	105	66-152
Butylbenzylphthalate	40	0	38	95	64-158
3,3'-Dichlorobenzidine	40	0	35	88	69-159
Benzo(a)anthracene	40	0	40	100	62-151
Chrysene	40	0	39	98	72-141
bis(2-Ethylhexyl)phthalate	40	.7	34	83	63-148
Di-n-octylphthalate	40	0	32	80	65-154
Benzo(b)fluoranthene	40	0	41	102	42-172

Column to be used to flag recovery with an asterisk

* Values outside of QC limits.

Spike Recovery: 02 out of 65 outside limits

COMMENTS: Lyn 4/7/01

FORM III SV-1

3C

WATER SEMIVOLATILE SPIKE/SPIKE DUPLICATE RECOVERY SUMMARY

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 0698A SAS No.: _____ SDG No.: A0698

Matrix Spike - EPA Sample No.: SBLKNQ

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	SPIKE CONCENTRATION (ug/L)	SPIKE % REC #	Q LI R
Benzo(k)fluoranthene	40	0	34	85	55
Benzo(a)pyrene	40	0	38	95	68
Indeno(1,2,3-cd)pyrene	40	0	40	100	52
Dibenzo(a,h)anthracene	40	0	39	98	25
Benzo(g,h,i)perylene	40	0	40	100	56

Column to be used to flag recovery with an asterisk

* Values outside of QC limits.

Spike Recovery: 02 out of 65 outside limits

COMMENTS: 4/7/01

FORM III SV-1

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE

SBLKNQ

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 0698A SAS No.: _____ SDG No.: A0698

Lab File ID: >Q1397 Lab Sample ID: SBLKNQ

Instrument ID: HP5971Q Date Extracted: 03/27/01

Matrix: (soil/water) WATER Date Analyzed: 03/28/01

Level: (low/med) LOW Time Analyzed: 1211

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SBLKNQFMS	SBLKNQFMS	>Q1398	03/28/01
02	SW-09	010698A-01	>Q1400	03/28/01
03	SW-09MS	010698A-01MS	>Q1401	03/28/01
04	SW-09MSD	010698A-01MSD	>Q1402	03/28/01
05	SW-01	010698A-02	>Q1403	03/28/01
06	SW-10	010698A-03	>Q1404	03/28/01
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COMMENTS: _____

FORM IV SV

4B
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLKPQ

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 0698A SAS No.: _____ SDG No.: A0698

Lab File ID: >Q1443 Lab Sample ID: SBLKPQ

Instrument ID: HP5971Q Date Extracted: 03/28/01

Matrix: (soil/water) WATER Date Analyzed: 04/03/01

Level: (low/med) LOW Time Analyzed: 1401

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SBLKPQFMS	SBLKPQFMS	>Q1444	04/03/01
02	SW-02	010698A-04	>Q1448	04/03/01
03	SW-03	010698A-05	>Q1449	04/03/01
04	SW-05	010698A-06	>Q1450	04/03/01
05	SW-07	010698A-08	>Q1451	04/03/01
06	FB032601	010698A-10	>Q1452	04/03/01
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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.: 0698A SAS No.: _____ SDG No.: A0698

Lab File ID: Q1313 DFTPP Injection Date:03/22/01

Instrument ID: HP5971Q DFTPP Injection Time:1118

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	0.0 (0.0)1
69	Mass 69 relative abundance	61.0
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	53.1
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.1
275	10.0 - 30.0% of mass 198	15.4
365	Greater than 1.0% of mass 198	1.12
441	Present, but less than mass 443	7.0
442	40.0 - 100.0% of mass 198	47.8
443	17.0 - 23.0% of mass 442	9.4 (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	SSTD020I5	SSTD020I5	>QA1314	03/22/01	1210
02	SSTD050I6	SSTD050I6	>QA1315	03/22/01	1252
03	SSTD080I7	SSTD080I7	>QA1316	03/22/01	1334
04	SSTD120I8	SSTD120I8	>QA1317	03/22/01	1417
05	SSTD160I9	SSTD160I9	>QA1318	03/22/01	1459
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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.: 0698A SAS No.: _____ SDG No.: A0698

Lab File ID: Q1396 DFTPP Injection Date:03/28/01

Instrument ID: HP5971Q DFTPP Injection Time:1122

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	43.0
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	53.3
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	49.0
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	7.0
275	10.0 - 30.0% of mass 198	17.1
365	Greater than 1.0% of mass 198	1.51
441	Present, but less than mass 443	9.0
442	40.0 - 100.0% of mass 198	59.2
443	17.0 - 23.0% of mass 442	11.4 (19.3)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050K5	SSTD050K5	>Q1396	03/28/01	1122
02	SBLKNQ	SBLKNQ	>Q1397	03/28/01	1211
03	SBLKNQFMS	SBLKNQFMS	>Q1398	03/28/01	1253
04	SW-09	010698A-01	>Q1400	03/28/01	1417
05	SW-09MS	010698A-01MS	>Q1401	03/28/01	1459
06	SW-09MSD	010698A-01MSD	>Q1402	03/28/01	1541
07	SW-01	010698A-02	>Q1403	03/28/01	1622
08	SW-10	010698A-03	>Q1404	03/28/01	1704
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5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 0698A SAS No.: _____ SDG No.: A0698

Lab File ID: Q1439 DFTPP Injection Date:04/03/01

Instrument ID: HP5971Q DFTPP Injection Time:1014

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	50.3
68	Less than 2.0% of mass 69	0.0 (0.0)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	52.1
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	7.0
275	10.0 - 30.0% of mass 198	15.6
365	Greater than 1.0% of mass 198	1.21
441	Present, but less than mass 443	7.5
442	40.0 - 100.0% of mass 198	49.1
443	17.0 - 23.0% of mass 442	9.6 (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	SSTD050K9	SSTD050K9	>Q1439	04/03/01	1014
02	SBLKPQ	SBLKPQ	>Q1443	04/03/01	1401
03	SBLKPQFMS	SBLKPQFMS	>Q1444	04/03/01	1443
04	SW-02	010698A-04	>Q1448	04/03/01	1730
05	SW-03	010698A-05	>Q1449	04/03/01	1812
06	SW-05	010698A-06	>Q1450	04/03/01	1854
07	SW-07	010698A-08	>Q1451	04/03/01	1936
08	FB032601	010698A-10	>Q1452	04/03/01	2018
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FORM V SV

6B
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 0698A SAS No.: _____ SDG No.: A0698

Instrument ID: HP5971Q Calibration Date(s):03/22/01 _____

Calibration Times: 1210 1459

LAB FILE ID: RRF20 = >QA1314 RRF50 = >QA1315
RRF80 = >QA1316 RRF120= >QA1317 RRF160= >QA1318

COMPOUND		RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD	
Phenol	*	2.487	2.257	2.068	2.042	1.971	2.165	9.6	*
bis(2-Chloroethyl)ether	*	1.664	1.510	1.401	1.380	1.285	1.448	10.0	*
2-Chlorophenol	*	1.609	1.459	1.375	1.380	1.310	1.427	8.0	*
1,3-Dichlorobenzene	*	1.656	1.601	1.505	1.473	1.380	1.523	7.1	*
1,4-Dichlorobenzene	*	1.384	1.357	1.308	1.324	1.236	1.322	4.2	*
Benzyl alcohol	*	1.462	1.433	1.358	1.386	1.336	1.395	3.7	*
1,2-Dichlorobenzene	*	1.414	1.240	1.155	1.139	1.063	1.202	11.2	*
2-Methylphenol	*	1.793	1.732	1.608	1.619	1.569	1.664	5.6	*
2,2'-oxybis(1-Chloropropane)	*	3.619	3.140	2.894	2.770	2.534	2.991	13.8	*
4-Methylphenol	*	1.933	1.812	1.671	1.605	1.503	1.705	10.0	*
N-Nitroso-di-n-propylamine	*	1.396	1.271	1.192	1.191	1.142	1.238	8.0	*
Hexachloroethane	*	0.714	0.677	0.650	0.640	0.600	0.656	6.5	*
Nitrobenzene	*	0.440	0.400	0.374	0.350	0.327	0.378	11.6	*
Isophorone	*	1.029	0.949	0.875	0.838	0.786	0.895	10.6	*
2-Nitrophenol	*	0.243	0.244	0.240	0.239	0.228	0.239	2.7	*
2,4-Dimethylphenol	*	0.381	0.346	0.330	0.313	0.298	0.334	9.6	*
Benzoic acid	*	0.305	0.325	0.318	0.324	0.326	0.320	2.7	*
bis(2-Chloroethoxy)methane	*	0.578	0.511	0.483	0.467	0.440	0.496	10.6	*
2,4-Dichlorophenol	*	0.315	0.301	0.285	0.276	0.260	0.287	7.5	*
1,2,4-Trichlorobenzene	*	0.315	0.288	0.275	0.265	0.248	0.278	9.1	*
Naphthalene	*	1.010	0.938	0.877	0.849	0.785	0.892	9.6	*
4-Chloroaniline	*	0.538	0.502	0.465	0.447	0.425	0.475	9.5	*
Hexachlorobutadiene	*	0.141	0.143	0.136	0.134	0.124	0.136	5.5	*
4-Chloro-3-methylphenol	*	0.431	0.396	0.372	0.355	0.335	0.378	9.8	*
2-Methylnaphthalene	*	0.698	0.596	0.529	0.498	0.453	0.555	17.2	*
Hexachlorocyclopentadiene	*	0.298	0.317	0.324	0.330	0.308	0.315	4.0	*
2,4,6-Trichlorophenol	*	0.462	0.447	0.430	0.441	0.414	0.439	4.1	*
2,4,5-Trichlorophenol	*	0.464	0.447	0.425	0.427	0.410	0.435	4.8	*
2-Chloronaphthalene	*	1.072	0.979	0.924	0.925	0.863	0.953	8.2	*
2-Nitroaniline	*	0.541	0.540	0.532	0.533	0.511	0.531	2.3	*
Dimethylphthalate	*	1.647	1.573	1.492	1.474	1.374	1.512	6.8	*
Acenaphthylene	*	2.032	1.782	1.644	1.582	1.463	1.701	12.8	*
2,6-Dinitrotoluene	*	0.357	0.372	0.356	0.358	0.335	0.356	3.7	*
3-Nitroaniline	*	0.538	0.546	0.538	0.555	0.532	0.542	1.6	*
Acenaphthene	*	1.046	1.013	0.984	0.977	0.919	0.988	4.8	*
2,4-Dinitrophenol	*	0.147	0.210	0.231	0.260	0.264	0.222	21.4	*
4-Nitrophenol	*	0.176	0.189	0.189	0.195	0.190	0.188	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.: 0698A SAS No.: _____ SDG No.: A0698

Instrument ID: HP5971Q Calibration Date(s):03/22/01 _____

Calibration Times: 1210 1459

LAB FILE ID: RRF20 = >QA1314 RRF50 = >QA1315
RRF80 = >QA1316 RRF120= >QA1317 RRF160= >QA1318

COMPOUND		RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD	
Dibenzofuran	*	1.713	1.586	1.486	1.457	1.335	1.515	9.4	*
2,4-Dinitrotoluene	*	0.432	0.453	0.447	0.467	0.457	0.451	2.9	*
Diethylphthalate	*	1.686	1.577	1.476	1.440	1.329	1.502	9.0	*
4-Chlorophenyl-phenyl Ether	*	0.664	0.625	0.590	0.579	0.527	0.597	8.6	*
Fluorene	*	1.286	1.129	1.041	1.004	0.935	1.079	12.5	*
4-Nitroaniline	*	0.515	0.527	0.522	0.550	0.525	0.528	2.5	*
4,6-Dinitro-2-methylphenol	*	0.136	0.146	0.151	0.150	0.141	0.145	4.3	*
N-Nitrosodiphenylamine	*	0.536	0.460	0.419	0.389	0.353	0.431	16.3	*
4-Bromophenyl-phenylether	*	0.196	0.179	0.171	0.160	0.151	0.171	10.2	*
Hexachlorobenzene	*	0.229	0.211	0.197	0.188	0.174	0.200	10.6	*
Pentachlorophenol	*	0.137	0.141	0.137	0.135	0.128	0.136	3.5	*
Phenanthrene	*	0.917	0.830	0.784	0.730	0.675	0.787	11.8	*
Anthracene	*	1.003	0.884	0.802	0.738	0.666	0.819	16.0	*
Carbazole	*	1.138	0.993	0.905	0.835	0.744	0.923	16.4	*
Di-n-butylphthalate	*	1.658	1.397	1.238	1.103	0.956	1.270	21.4	*
Fluoranthene	*	1.397	1.195	1.081	0.976	0.837	1.097	19.4	*
Pyrene	*	1.739	1.673	1.610	1.625	1.546	1.639	4.4	*
Butylbenzylphthalate	*	0.979	0.931	0.887	0.871	0.812	0.896	7.0	*
3,3'-Dichlorobenzidine	*	0.634	0.639	0.630	0.625	0.575	0.621	4.2	*
Benzo(a)anthracene	*	1.413	1.327	1.239	1.204	1.110	1.259	9.2	*
Chrysene	*	1.086	1.130	1.100	1.129	1.078	1.105	2.2	*
bis(2-Ethylhexyl)phthalate	*	1.010	0.939	0.870	0.842	0.770	0.886	10.4	*
Di-n-octylphthalate	*	2.317	2.106	1.965	1.778	1.534	1.940	15.5	*
Benzo(b)fluoranthene	*	1.272	1.240	1.190	1.248	1.093	1.209	5.9	*
Benzo(k)fluoranthene	*	1.172	1.009	0.941	0.777	0.763	0.932	18.3	*
Benzo(a)pyrene	*	1.223	1.178	1.102	1.057	0.988	1.110	8.4	*
Indeno(1,2,3-cd)pyrene	*	1.315	1.220	1.172	1.299	1.335	1.268	5.5	*
Dibenz(a,h)anthracene	*	1.114	1.010	0.943	1.016	1.028	1.022	6.0	*
Benzo(g,h,i)perylene	*	1.180	1.125	1.102	1.284	1.386	1.215	9.7	*
Cyclohexanone		1.478	1.342	1.014	0.961	0.782	1.115	25.7	
Nitrobenzene-D5	*	0.447	0.432	0.410	0.401	0.377	0.413	6.6	*
2-Fluorobiphenyl	*	1.275	1.150	1.090	1.090	0.999	1.121	9.1	*
Terphenyl-D14	*	1.183	1.174	1.155	1.182	1.123	1.163	2.2	*
Phenol-D5	*	2.864	2.811	2.621	2.677	2.553	2.705	4.8	*
2-Fluorophenol	*	1.952	2.008	1.986	2.045	1.955	1.989	2.0	*
2,4,6-Tribromophenol	*	0.209	0.217	0.215	0.228	0.221	0.218	3.2	*

(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.: 0698A SAS No.: _____ SDG No.: A0698

Instrument ID: HP5971Q Calibration Date: 03/28/01 Time: 1122

Lab File ID: >Q1396 Init. Calib. Date(s): 03/22/01 _____

Init. Calib. Times: 1210 1459

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Phenol	2.165	2.284		5.5	20.0
bis(2-Chloroethyl)ether	1.448	1.504		3.9	
2-Chlorophenol	1.427	1.502		5.3	
1,3-Dichlorobenzene	1.523	1.646		8.1	
1,4-Dichlorobenzene	1.322	1.378		4.2	20.0
Benzyl alcohol	1.395	1.444		3.5	
1,2-Dichlorobenzene	1.202	1.272		5.8	
2-Methylphenol	1.664	1.752		5.3	
2,2'-oxybis(1-Chloropropane)	2.991	3.021		1.0	
4-Methylphenol	1.705	1.614		-5.3	
N-Nitroso-di-n-propylamine	1.238	1.233	0.050	-0.4	
Hexachloroethane	0.656	0.686		4.6	
Nitrobenzene	0.378	0.419		10.8	
Isophorone	0.895	0.981		9.6	
2-Nitrophenol	0.239	0.270		13.0	20.0
2,4-Dimethylphenol	0.334	0.369		10.5	
Benzoic acid	0.320	0.307		-4.1	
bis(2-Chloroethoxy)methane	0.496	0.560		12.9	
2,4-Dichlorophenol	0.287	0.322		12.2	20.0
1,2,4-Trichlorobenzene	0.278	0.299		7.6	
Naphthalene	0.892	0.969		8.6	
4-Chloroaniline	0.475	0.526		10.7	
Hexachlorobutadiene	0.136	0.151		11.0	20.0
4-Chloro-3-methylphenol	0.378	0.421		11.4	20.0
2-Methylnaphthalene	0.555	0.593		6.8	
Hexachlorocyclopentadiene	0.315	0.316	0.050	0.3	
2,4,6-Trichlorophenol	0.439	0.478		8.9	20.0
2,4,5-Trichlorophenol	0.435	0.465		6.9	
2-Chloronaphthalene	0.953	1.018		6.8	
2-Nitroaniline	0.531	0.575		8.3	
Dimethylphthalate	1.512	1.626		7.5	
Acenaphthylene	1.701	1.872		10.0	
2,6-Dinitrotoluene	0.356	0.379		6.5	
3-Nitroaniline	0.542	0.576		6.3	
Acenaphthene	0.988	1.060		7.3	20.0
2,4-Dinitrophenol	0.222	0.242	0.050	9.0	
4-Nitrophenol	0.188	0.188	0.050	0.0	

7C
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 0698A SAS No.: _____ SDG No.: A0698

Instrument ID: HP5971Q Calibration Date: 03/28/01 Time: 1122

Lab File ID: >Q1396 Init. Calib. Date(s): 03/22/01 _____

Init. Calib. Times: 1210 1459

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Dibenzofuran	1.515	1.605		5.9	
2,4-Dinitrotoluene	0.451	0.496		10.0	
Diethylphthalate	1.502	1.621		7.9	
4-Chlorophenyl-Phenyl Ether	0.597	0.634		6.2	
Fluorene	1.079	1.154		7.0	
4-Nitroaniline	0.528	0.548		3.8	
4,6-Dinitro-2-methylphenol	0.145	0.165		13.8	
N-Nitrosodiphenylamine	0.431	0.486		12.8	20.0
4-Bromophenyl-phenylether	0.171	0.195		14.0	
Hexachlorobenzene	0.200	0.223		11.5	
Pentachlorophenol	0.136	0.146		7.4	20.0
Phenanthrene	0.787	0.860		9.3	
Anthracene	0.819	0.899		9.8	
Carbazole	0.923	1.004		8.8	
Di-n-butylphthalate	1.270	1.380		8.7	
Fluoranthene	1.097	1.122		2.3	20.0
Pyrene	1.639	1.790		9.2	
Butylbenzylphthalate	0.896	0.908		1.3	
3,3'-Dichlorobenzidine	0.621	0.613		-1.3	
Benzo(a)anthracene	1.259	1.294		2.8	
Chrysene	1.105	1.082		-2.1	
bis(2-Ethylhexyl)phthalate	0.886	0.936		5.6	
Di-n-octylphthalate	1.940	2.190		12.9	20.0
Benzo(b)fluoranthene	1.209	1.371		13.4	
Benzo(k)fluoranthene	0.932	0.941		1.0	
Benzo(a)pyrene	1.110	1.179		6.2	20.0
Indeno(1,2,3-cd)pyrene	1.268	1.212		-4.4	
Dibenz(a,h)anthracene	1.022	1.013		-0.9	
Benzo(g,h,i)perylene	1.215	1.113		-8.4	
Cyclohexanone	1.115	1.309		17.4	
Nitrobenzene-D5	0.413	0.468		13.3	
2-Fluorobiphenyl	1.121	1.183		5.5	
Terphenyl-D14	1.163	1.278		9.9	
Phenol-D5	2.705	2.791		3.2	
2-Fluorophenol	1.989	2.096		5.4	
2,4,6-Tribromophenol	0.218	0.236		8.3	

(1) Cannot be separated from Diphenylamine

7B
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 0698A SAS No.: _____ SDG No.: A0698

Instrument ID: HP5971Q Calibration Date: 04/03/01 Time: 1014

Lab File ID: >Q1439 Init. Calib. Date(s): 03/22/01 _____

Init. Calib. Times: 1210 1459

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Phenol	2.165	1.930		-10.8	20.0
bis(2-Chloroethyl)ether	1.448	1.322		-8.7	
2-Chlorophenol	1.427	1.404		-1.6	
1,3-Dichlorobenzene	1.523	1.468		-3.6	
1,4-Dichlorobenzene	1.322	1.281		-3.1	20.0
Benzyl alcohol	1.395	1.306		-6.4	
1,2-Dichlorobenzene	1.202	1.172		-2.5	
2-Methylphenol	1.664	1.429		-14.1	
2,2'-oxybis(1-Chloropropane)	2.991	3.452		15.4	
4-Methylphenol	1.705	1.571		-7.9	
N-Nitroso-di-n-propylamine	1.238	1.283	0.050	3.6	
Hexachloroethane	0.656	0.596		-9.2	
Nitrobenzene	0.378	0.395		4.5	
Isophorone	0.895	0.916		2.4	
2-Nitrophenol	0.239	0.248		3.8	20.0
2,4-Dimethylphenol	0.334	0.350		4.8	
Benzoic acid	0.320	0.324		1.2	
bis(2-Chloroethoxy)methane	0.496	0.550		10.9	
2,4-Dichlorophenol	0.287	0.280		-2.4	20.0
1,2,4-Trichlorobenzene	0.278	0.267		-4.0	
Naphthalene	0.892	0.897		0.6	
4-Chloroaniline	0.475	0.473		-0.4	
Hexachlorobutadiene	0.136	0.130		-4.4	20.0
4-Chloro-3-methylphenol	0.378	0.390		3.2	20.0
2-Methylnaphthalene	0.555	0.540		-2.7	
Hexachlorocyclopentadiene	0.315	0.266	0.050	-15.6	
2,4,6-Trichlorophenol	0.439	0.386		-12.1	20.0
2,4,5-Trichlorophenol	0.435	0.372		-14.5	
2-Chloronaphthalene	0.953	0.816		-14.4	
2-Nitroaniline	0.531	0.481		-9.4	
Dimethylphthalate	1.512	1.296		-14.3	
Acenaphthylene	1.701	1.595		-6.2	
2,6-Dinitrotoluene	0.356	0.278		-21.9	
3-Nitroaniline	0.542	0.358		-33.9	
Acenaphthene	0.988	0.846		-14.4	20.0
2,4-Dinitrophenol	0.222	0.213	0.050	-4.0	
4-Nitrophenol	0.188	0.125	0.050	-33.5	

7C
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 0698A SAS No.: _____ SDG No.: A0698

Instrument ID: HP5971Q Calibration Date: 04/03/01 Time: 1014

Lab File ID: >Q1439 Init. Calib. Date(s): 03/22/01 _____

Init. Calib. Times: 1210 1459

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Dibenzofuran	1.515	1.396		7.8	
2,4-Dinitrotoluene	0.451	0.385		-14.6	
Diethylphthalate	1.502	1.289		-14.2	
4-Chlorophenyl-Phenyl Ether	0.597	0.494		-17.2	
Fluorene	1.079	0.949		-12.0	
4-Nitroaniline	0.528	0.439		-16.8	
4,6-Dinitro-2-methylphenol	0.145	0.151		4.1	
N-Nitrosodiphenylamine	0.431	0.438		1.6	20.0
4-Bromophenyl-phenylether	0.171	0.173		1.2	
Hexachlorobenzene	0.200	0.203		1.5	
Pentachlorophenol	0.136	0.131		-3.7	20.0
Phenanthrene	0.787	0.784		-0.4	
Anthracene	0.819	0.846		3.3	
Carbazole	0.923	0.958		3.8	
Di-n-butylphthalate	1.270	1.306		2.8	
Fluoranthene	1.097	1.073		-2.2	20.0
Pyrene	1.639	1.598		-2.5	
Butylbenzylphthalate	0.896	0.855		-4.6	
3,3'-Dichlorobenzidine	0.621	0.506		-18.5	
Benzo(a)anthracene	1.259	1.134		-9.9	
Chrysene	1.105	0.905		-18.1	
bis(2-Ethylhexyl)phthalate	0.886	0.861		-2.8	
Di-n-octylphthalate	1.940	2.167		11.7	20.0
Benzo(b)fluoranthene	1.209	1.138		-5.9	
Benzo(k)fluoranthene	0.932	0.965		3.5	
Benzo(a)pyrene	1.110	1.071		-3.5	20.0
Indeno(1,2,3-cd)pyrene	1.268	1.108		-12.6	
Dibenz(a,h)anthracene	1.022	0.932		-8.8	
Benzo(g,h,i)perylene	1.215	1.008		-17.0	
Cyclohexanone	1.115	1.234		10.7	
Nitrobenzene-D5	0.413	0.438		6.0	
2-Fluorobiphenyl	1.121	0.906		-19.2	
Terphenyl-D14	1.163	1.109		-4.6	
Phenol-D5	2.705	2.157		-20.2	
2-Fluorophenol	1.989	1.880		-5.5	
2,4,6-Tribromophenol	0.218	0.178		-18.3	

(1) Cannot be separated from Diphenylamine

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 0698A SAS No.: _____ SDG No.: A0698

Lab File ID: (Standard): >Q1396 Date Analyzed:03/28/01

Instrument ID: HP5971Q Time Analyzed:1122

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	207581	9.64	859861	12.61	434716	16.52
	UPPER LIMIT	415162	10.14	1719722	13.11	869432	17.02
	LOWER LIMIT	103790	9.14	429930	12.11	217358	16.02
	EPA SAMPLE NO.						
01	SBLKNQ	239690	9.64	1073388	12.61	576580	16.52
02	SBLKNQFMS	233181	9.64	900199	12.61	462981	16.52
03	SW-09	293075	9.65	992304	12.62	610331	16.52
04	SW-09MS	277636	9.64	1013238	12.61	629749	16.52
05	SW-09MSD	264503	9.65	993565	12.62	625351	16.52
06	SW-01	296122	9.65	956948	12.61	621094	16.52
07	SW-10	302965	9.64	1028940	12.61	644977	16.52
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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.: 0698A SAS No.: _____ SDG No.: A0698

Lab File ID: (Standard): >Q1396 Date Analyzed:03/28/01

Instrument ID: HP5971Q Time Analyzed:1122

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	872997	19.58	503586	25.02	505827	27.92
	UPPER LIMIT	1745994	20.08	1007172	25.52	1011654	28.42
	LOWER LIMIT	436498	19.08	251793	24.52	252914	27.42
	EPA SAMPLE NO.						
01	SBLKNQ	989594	19.58	754755	25.01	573039	27.92
02	SBLKNQFMS	822989	19.59	474961	25.02	499113	27.94
03	SW-09	985708	19.58	694386	25.02	550833	27.93
04	SW-09MS	958497	19.59	728308	25.01	560236	27.93
05	SW-09MSD	953494	19.58	719027	25.00	550988	27.93
06	SW-01	950826	19.58	630876	25.01	491557	27.93
07	SW-10	1012133	19.58	662040	25.01	502769	27.92
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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.: 0698A SAS No.: _____ SDG No.: A0698

Lab File ID: (Standard): >Q1439 Date Analyzed:04/03/01

Instrument ID: HP5971Q Time Analyzed:1014

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	217202	9.53	901435	12.49	525413	16.40
	UPPER LIMIT	434404	10.03	1802870	12.99	1050826	16.90
	LOWER LIMIT	108601	9.03	450718	11.99	262706	15.90
	EPA SAMPLE NO.						
01	SBLKPQ	323886	9.53	1375561	12.49	740924	16.40
02	SBLKPQFMS	266010	9.53	1016120	12.50	612137	16.41
03	SW-02	306751	9.53	923811	12.49	659862	16.40
04	SW-03	301488	9.53	927546	12.49	642721	16.40
05	SW-05	304970	9.52	1156162	12.49	681834	16.40
06	SW-07	313473	9.52	928461	12.49	661218	16.40
07	FB032601	321856	9.52	951770	12.49	621236	16.40
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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.

page 1 of 1

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 0698A SAS No.: _____ SDG No.: A0698

Lab File ID: (Standard): >Q1439 Date Analyzed:04/03/01

Instrument ID: HP5971Q Time Analyzed:1014

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT
	12 HOUR STD	909023	19.47	557318	24.89	511978	27.77
	UPPER LIMIT	1818046	19.97	1114636	25.39	1023956	28.27
	LOWER LIMIT	454512	18.97	278659	24.39	255989	27.27
	EPA SAMPLE NO.						
01	SBLKPQ	1212016	19.47	941172	24.89	693498	27.77
02	SBLKPQFMS	894110	19.48	527262	24.90	524821	27.77
03	SW-02	1105952	19.46	796081	24.88	590388	27.77
04	SW-03	1046144	19.46	738910	24.88	562561	27.77
05	SW-05	1151913	19.47	850350	24.89	616960	27.76
06	SW-07	1091059	19.47	749491	24.89	551582	27.76
07	FB032601	974281	19.46	586781	24.88	476630	27.77
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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

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-09

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 0698A SAS No.: _____ SDG No.: A0698

Matrix: (soil/water) WATER Lab Sample ID: 010698A-01

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >Q1400

Level: (low/med) LOW Date Received: 03/24/01

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/27/01

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/28/01

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.

SW-09

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 0698A SAS No.: _____ SDG No.: A0698

Matrix: (soil/water) WATER Lab Sample ID: 010698A-01

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >Q1400

Level: (low/med) LOW Date Received: 03/24/01

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 03/27/01

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/28/01

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	1	J
120-12-7	Anthracene	.1	J
84-74-2	Di-n-butylphthalate	.4	JB
206-44-0	Fluoranthene	2	J
129-00-0	Pyrene	1	J
85-68-7	Butylbenzylphthalate	.2	J
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	.4	J
218-01-9	Chrysene	.8	J
117-81-7	bis(2-Ethylhexyl)phthalate	1	JB
117-84-0	Di-n-octylphthalate	.3	J
205-99-2	Benzo(b)fluoranthene	.8	J
207-08-9	Benzo(k)fluoranthene	.9	J
50-32-8	Benzo(a)pyrene	.6	J
193-39-5	Indeno(1,2,3-cd)pyrene	.4	J
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	.4	J

(1) - Cannot be separated from Diphenylamine

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-01

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 0698A SAS No.: _____ SDG No.: A0698

Matrix: (soil/water) WATER Lab Sample ID: 010698A-02

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >Q1403

Level: (low/med) LOW Date Received: 03/24/01

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/27/01

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/28/01

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	.2	J
84-66-2	Diethylphthalate	.2	J
85-01-8	Phenanthrene	2	J
120-12-7	Anthracene	.3	J
206-44-0	Fluoranthene	3	J
129-00-0	Pyrene	2	J
56-55-3	Benzo(a)anthracene	.8	J
218-01-9	Chrysene	1	J
117-81-7	bis(2-Ethylhexyl)phthalate	2	JB
205-99-2	Benzo(b)fluoranthene	2	J
207-08-9	Benzo(k)fluoranthene	1	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	.3	J
191-24-2	Benzo(g,h,i)perylene	.9	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-10

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 0698A SAS No.: _____ SDG No.: A0698

Matrix: (soil/water) WATER Lab Sample ID: 010698A-03

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >Q1404

Level: (low/med) LOW Date Received: 03/24/01

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/27/01

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/28/01

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	.2	J
85-01-8	Phenanthrene	1	J
120-12-7	Anthracene	.2	J
206-44-0	Fluoranthene	2	J
129-00-0	Pyrene	2	J
56-55-3	Benzo(a)anthracene	.5	J
218-01-9	Chrysene	.9	J
117-81-7	bis(2-Ethylhexyl)phthalate	1	JB
205-99-2	Benzo(b)fluoranthene	1	J
207-08-9	Benzo(k)fluoranthene	1	J
50-32-8	Benzo(a)pyrene	.7	J
193-39-5	Indeno(1,2,3-cd)pyrene	.5	J
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	.5	J

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-02

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 0698A SAS No.: _____ SDG No.: A0698

Matrix: (soil/water) WATER Lab Sample ID: 010698A-04

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >Q1448

Level: (low/med) LOW Date Received: 03/27/01

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/28/01

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/03/01

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	1	J
85-01-8	Phenanthrene	.2	J
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	.3	J
129-00-0	Pyrene	.3	J
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	.1	J
117-81-7	bis(2-Ethylhexyl)phthalate	.6	J
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

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE N

SW-03

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 0698A SAS No.: _____ SDG No.: A0698

Matrix: (soil/water) WATER Lab Sample ID: 010698A-05

Sample wt/vol: 390 (g/mL) ML Lab File ID: >Q1449

Level: (low/med) LOW Date Received: 03/27/01

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 03/28/01

Concentrated Extract Volume: 500 (uL) Date Analyzed: 04/03/01

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	13	U
106-44-5	4-Methylphenol	13	U
91-20-3	Naphthalene	13	U
91-57-6	2-Methylnaphthalene	13	U
208-96-8	Acenaphthylene	13	U
83-32-9	Acenaphthene	13	U
86-73-7	Fluorene	13	U
84-66-2	Diethylphthalate	13	U
85-01-8	Phenanthrene	.5	J
120-12-7	Anthracene	13	U
206-44-0	Fluoranthene	1	J
129-00-0	Pyrene	.8	J
56-55-3	Benzo(a)anthracene	.3	J
218-01-9	Chrysene	.6	J
117-81-7	bis(2-Ethylhexyl)phthalate	1	J
205-99-2	Benzo(b)fluoranthene	.7	J
207-08-9	Benzo(k)fluoranthene	.5	J
50-32-8	Benzo(a)pyrene	.4	J
193-39-5	Indeno(1,2,3-cd)pyrene	.3	J
53-70-3	Dibenzo(a,h)anthracene	13	U
191-24-2	Benzo(g,h,i)perylene	.3	J

1B

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SW-05

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 0698A SAS No.: _____ SDG No.: A0698

Matrix: (soil/water) WATER Lab Sample ID: 010698A-06

Sample wt/vol: 840 (g/mL) ML Lab File ID: >Q1450

Level: (low/med) LOW Date Received: 03/27/01

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 03/28/01

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/03/01

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	.6	J
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	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

0078

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW-07

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 0698A SAS No.: _____ SDG No.: A0698

Matrix: (soil/water) WATER Lab Sample ID: 010698A-08

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >Q1451

Level: (low/med) LOW Date Received: 03/27/01

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 03/28/01

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/03/01

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	16	
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	.3	J
85-01-8	Phenanthrene	2	J
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	4	J
129-00-0	Pyrene	3	J
56-55-3	Benzo(a)anthracene	.6	J
218-01-9	Chrysene	2	J
117-81-7	bis(2-Ethylhexyl)phthalate	.9	J
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	1	J
53-70-3	Dibenzo(a,h)anthracene	.4	J
191-24-2	Benzo(g,h,i)perylene	1	J

1B

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FB032601

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 0698A SAS No.: _____ SDG No.: A0698

Matrix: (soil/water) WATER Lab Sample ID: 010698A-10

Sample wt/vol: 910 (g/mL) ML Lab File ID: >Q1452

Level: (low/med) LOW Date Received: 03/27/01

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/28/01

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/03/01

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	55	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	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	11	U

1C

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FB032601

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 0698A SAS No.: _____ SDG No.: A0698

Matrix: (soil/water) WATER Lab Sample ID: 010698A-10

Sample wt/vol: 910 (g/mL) ML Lab File ID: >Q1452

Level: (low/med) LOW Date Received: 03/27/01

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 03/28/01

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/03/01

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	11	U
51-28-5	2,4-Dinitrophenol	55	U
100-02-7	4-Nitrophenol	55	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	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	55	U
85-01-8	Phenanthrene	.8	J
120-12-7	Anthracene	11	U
84-74-2	Di-n-butylphthalate	11	U
206-44-0	Fluoranthene	1	J
129-00-0	Pyrene	.9	J
85-68-7	Butylbenzylphthalate	.5	JB
91-94-1	3,3'-Dichlorobenzidine	22	U
56-55-3	Benzo(a)anthracene	.3	J
218-01-9	Chrysene	.5	J
117-81-7	bis(2-Ethylhexyl)phthalate	3	J
117-84-0	Di-n-octylphthalate	11	
205-99-2	Benzo(b)fluoranthene	.6	J
207-08-9	Benzo(k)fluoranthene	.5	J
50-32-8	Benzo(a)pyrene	.4	J
193-39-5	Indeno(1,2,3-cd)pyrene	.4	J
53-70-3	Dibenzo(a,h)anthracene	11	U
191-24-2	Benzo(g,h,i)perylene	.4	J

(1) - Cannot be separated from Diphenylamine

0031

1B

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SBLKNQ

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 0698A SAS No.: _____ SDG No.: A0698

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

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >Q1397

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

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/27/01

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/28/01

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

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SBLKNQ

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 0698A SAS No.: _____ SDG No.: A0698

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

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >Q1397

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

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/27/01

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/28/01

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	.3	J
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	.7	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

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SBLKPQ

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 0698A SAS No.: _____ SDG No.: A0698

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

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >Q1443

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

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/28/01

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/03/01

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.

SBLKPQ

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 0698A SAS No.: _____ SDG No.: A0698

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

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >Q1443

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

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/28/01

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/03/01

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	.1	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	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.

SBLKNQFMS

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 0698A SAS No.: _____ SDG No.: A0698

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

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >Q1398

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

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/27/01

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/28/01

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	24	
95-57-8	2-Chlorophenol	38	
541-73-1	1,3-Dichlorobenzene	26	
106-46-7	1,4-Dichlorobenzene	25	
100-51-6	Benzyl alcohol	24	
95-50-1	1,2-Dichlorobenzene	30	
95-48-7	2-Methylphenol	22	
108-60-1	bis(2-Chloroisopropyl)ether	27	
106-44-5	4-Methylphenol	18	
621-64-7	N-Nitroso-di-n-propylamine	24	
67-72-1	Hexachloroethane	28	
98-95-3	Nitrobenzene	30	
78-59-1	Isophorone	31	
88-75-5	2-Nitrophenol	39	
105-67-9	2,4-Dimethylphenol	39	
65-85-0	Benzoic acid	50	U
111-91-1	bis(2-Chloroethoxy)methane	26	
120-83-2	2,4-Dichlorophenol	40	
120-82-1	1,2,4-Trichlorobenzene	25	
91-20-3	Naphthalene	34	
106-47-8	4-Chloroaniline	32	
87-68-3	Hexachlorobutadiene	36	
59-50-7	4-Chloro-3-methylphenol	41	
91-57-6	2-Methylnaphthalene	30	
77-47-4	Hexachlorocyclopentadiene	16	
88-06-2	2,4,6-Trichlorophenol	40	
95-95-4	2,4,5-Trichlorophenol	29	J
91-58-7	2-Chloronaphthalene	44	
88-74-4	2-Nitroaniline	34	J
131-11-3	Dimethylphthalate	32	
208-96-8	Acenaphthylene	34	

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKNQFMS

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 0698A SAS No.: _____ SDG No.: A0698

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

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >Q1398

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

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 03/27/01

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/28/01

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	33	
99-09-2	3-Nitroaniline	36	J
83-32-9	Acenaphthene	36	
51-28-5	2,4-Dinitrophenol	53	
100-02-7	4-Nitrophenol	21	J
132-64-9	Dibenzofuran	33	
121-14-2	2,4-Dinitrotoluene	33	
84-66-2	Diethylphthalate	30	
7005-72-3	4-Chlorophenyl-phenylether	29	
86-73-7	Fluorene	39	
100-01-6	4-Nitroaniline	35	J
534-52-1	4,6-Dinitro-2-methylphenol	57	
86-30-6	N-Nitrosodiphenylamine (1)	42	
101-55-3	4-Bromophenyl-phenylether	28	
118-74-1	Hexachlorobenzene	44	
87-86-5	Pentachlorophenol	53	
85-01-8	Phenanthrene	42	
120-12-7	Anthracene	42	
84-74-2	Di-n-butylphthalate	35	B
206-44-0	Fluoranthene	39	
129-00-0	Pyrene	42	
85-68-7	Butylbenzylphthalate	38	
91-94-1	3,3'-Dichlorobenzidine	35	
56-55-3	Benzo(a)anthracene	40	
218-01-9	Chrysene	39	
117-81-7	bis(2-Ethylhexyl)phthalate	34	B
117-84-0	Di-n-octylphthalate	32	
205-99-2	Benzo(b)fluoranthene	41	
207-08-9	Benzo(k)fluoranthene	34	
50-32-8	Benzo(a)pyrene	38	
193-39-5	Indeno(1,2,3-cd)pyrene	40	
53-70-3	Dibenzo(a,h)anthracene	39	
191-24-2	Benzo(g,h,i)perylene	40	

(1) - Cannot be separated from Diphenylamine

1B

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SBLKPQFMS

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 0698A SAS No.: _____ SDG No.: A0698

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

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >Q1444

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

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/28/01

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/03/01

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	12	
111-44-4	bis(2-Chloroethyl)ether	21	
95-57-8	2-Chlorophenol	36	
541-73-1	1,3-Dichlorobenzene	24	
106-46-7	1,4-Dichlorobenzene	23	
100-51-6	Benzyl alcohol	24	
95-50-1	1,2-Dichlorobenzene	26	
95-48-7	2-Methylphenol	18	
108-60-1	bis(2-Chloroisopropyl)ether	31	
106-44-5	4-Methylphenol	18	
621-64-7	N-Nitroso-di-n-propylamine	25	
67-72-1	Hexachloroethane	25	
98-95-3	Nitrobenzene	28	
78-59-1	Isophorone	29	
88-75-5	2-Nitrophenol	38	
105-67-9	2,4-Dimethylphenol	34	
65-85-0	Benzoic acid	3	J
111-91-1	bis(2-Chloroethoxy)methane	25	
120-83-2	2,4-Dichlorophenol	38	
120-82-1	1,2,4-Trichlorobenzene	24	
91-20-3	Naphthalene	32	
106-47-8	4-Chloroaniline	30	
87-68-3	Hexachlorobutadiene	32	
59-50-7	4-Chloro-3-methylphenol	38	
91-57-6	2-Methylnaphthalene	27	
77-47-4	Hexachlorocyclopentadiene	13	
88-06-2	2,4,6-Trichlorophenol	31	
95-95-4	2,4,5-Trichlorophenol	22	J
91-58-7	2-Chloronaphthalene	34	
88-74-4	2-Nitroaniline	27	J
131-11-3	Dimethylphthalate	24	
208-96-8	Acenaphthylene	28	

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKPQFMS

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 0698A SAS No.: _____ SDG No.: A0698

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

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >Q1444

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

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/28/01

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/03/01

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	23	
99-09-2	3-Nitroaniline	21	J
83-32-9	Acenaphthene	28	
51-28-5	2,4-Dinitrophenol	44	J
100-02-7	4-Nitrophenol	14	J
132-64-9	Dibenzofuran	27	
121-14-2	2,4-Dinitrotoluene	25	
84-66-2	Diethylphthalate	22	
7005-72-3	4-Chlorophenyl-phenylether	22	
86-73-7	Fluorene	30	
100-01-6	4-Nitroaniline	26	J
534-52-1	4,6-Dinitro-2-methylphenol	51	
86-30-6	N-Nitrosodiphenylamine (1)	38	
101-55-3	4-Bromophenyl-phenylether	30	
118-74-1	Hexachlorobenzene	39	
87-86-5	Pentachlorophenol	47	J
85-01-8	Phenanthrene	38	
120-12-7	Anthracene	39	
84-74-2	Di-n-butylphthalate	31	
206-44-0	Fluoranthene	35	
129-00-0	Pyrene	37	
85-68-7	Butylbenzylphthalate	33	B
91-94-1	3,3'-Dichlorobenzidine	27	
56-55-3	Benzo(a)anthracene	33	
218-01-9	Chrysene	32	
117-81-7	bis(2-Ethylhexyl)phthalate	30	
117-84-0	Di-n-octylphthalate	28	
205-99-2	Benzo(b)fluoranthene	32	
207-08-9	Benzo(k)fluoranthene	32	
50-32-8	Benzo(a)pyrene	33	
193-39-5	Indeno(1,2,3-cd)pyrene	41	
53-70-3	Dibenzo(a,h)anthracene	40	
191-24-2	Benzo(g,h,i)perylene	44	

(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.: 0698A SAS No.: _____ SDG No.: A0698

Matrix: (soil/water) WATER Lab Sample ID: 010698A-01MS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >Q1401

Level: (low/med) LOW Date Received: 03/24/01

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/27/01

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/28/01

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	.4	J
108-95-2	Phenol	24	
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	55	
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	29	
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	50	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	.5	J
120-82-1	1,2,4-Trichlorobenzene	37	
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	61	
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-09MS

Lab Name: STL/CT Contract: _____

Lab Code: IEACT Case No.: 0698A SAS No.: _____ SDG No.: A0698

Matrix: (soil/water) WATER Lab Sample ID: 010698A-01MS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >Q1401

Level: (low/med) LOW Date Received: 03/24/01

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/27/01

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/28/01

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	30	
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	26	J
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	34	
84-66-2	Diethylphthalate	.1	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	70	
85-01-8	Phenanthrene	.6	J
120-12-7	Anthracene	10	U
84-74-2	Di-n-butylphthalate	.3	JB
206-44-0	Fluoranthene	1	J
129-00-0	Pyrene	31	
85-68-7	Butylbenzylphthalate	.2	J
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	.2	J
218-01-9	Chrysene	.5	J
117-81-7	bis(2-Ethylhexyl)phthalate	.8	JB
117-84-0	Di-n-octylphthalate	.1	J
205-99-2	Benzo(b)fluoranthene	.6	J
207-08-9	Benzo(k)fluoranthene	.4	J
50-32-8	Benzo(a)pyrene	.3	J
193-39-5	Indeno(1,2,3-cd)pyrene	.2	J
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	.2	J

(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.: 0698A SAS No.: _____ SDG No.: A0698

Matrix: (soil/water) WATER Lab Sample ID: 010698A-01MSD

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >Q1402

Level: (low/med) LOW Date Received: 03/24/01

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/27/01

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/28/01

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	.4	J
108-95-2	Phenol	25	
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	58	
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	29	
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	.5	J
120-82-1	1,2,4-Trichlorobenzene	36	
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	65	
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.: 0698A SAS No.: _____ SDG No.: A0698

Matrix: (soil/water) WATER Lab Sample ID: 010698A-01MSD

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >Q1402

Level: (low/med) LOW Date Received: 03/24/01

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 03/27/01

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/28/01

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	31	
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	29	J
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	35	
84-66-2	Diethylphthalate	.1	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	72	
85-01-8	Phenanthrene	.6	J
120-12-7	Anthracene	10	U
84-74-2	Di-n-butylphthalate	.3	JB
206-44-0	Fluoranthene	1	J
129-00-0	Pyrene	32	
85-68-7	Butylbenzylphthalate	.2	J
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	.2	J
218-01-9	Chrysene	.5	J
117-81-7	bis(2-Ethylhexyl)phthalate	.9	JB
117-84-0	Di-n-octylphthalate	.1	J
205-99-2	Benzo(b)fluoranthene	.5	J
207-08-9	Benzo(k)fluoranthene	.5	J
50-32-8	Benzo(a)pyrene	.4	J
193-39-5	Indeno(1,2,3-cd)pyrene	.3	J
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	.3	J

(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.: 0698A SAS No.: _____ SDG No.: A0698

SOW No.: ILM04.0

Field Sample ID	Lab Sample ID.
SW-09D	F010698A-01D
SW-09S	F010698A-01S
SW-09	F010698A-01
SW-01	F010698A-02
SW-10	F010698A-03
SW-02	F010698A-04
SW-03	F010698A-05
SW-05	F010698A-06
SW-07	F010698A-08
FB032601	F010698A-10
SW-09D	T010698A-01D
SW-09S	T010698A-01S
SW-09	T010698A-01
SW-01	T010698A-02
SW-10	T010698A-03
SW-02	T010698A-04
SW-03	T010698A-05
SW-05	T010698A-06
SW-06	T010698A-07
SW-07	T010698A-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: [signature] Name: Daniel W. Helfrich

Date: 4/5/01 Title: Group Leader

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COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 0698A SAS No.: _____ SDG No.: A0698

SOW No.: ILM04.0

Field Sample ID	Lab Sample ID.
SW-09A	T010698A-09
FB032601	T010698A-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. Hefferd

Date: 4/5/01 Title: Group Leader

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1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-09

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 0698A SAS No.: _____ SDG No.: A0698

Matrix (soil/water): WATER Lab Sample ID: F010698A-01

Level (low/med): LOW Date Received: 03/24/01

% 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	8.6	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-01

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 0698A SAS No.: _____ SDG No.: A0698

Matrix (soil/water): WATER Lab Sample ID: F010698A-02

Level (low/med): LOW Date Received: 03/24/01

% 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	3.5	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-10

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 0698A SAS No.: _____ SDG No.: A0698

Matrix (soil/water): WATER Lab Sample ID: F010698A-03

Level (low/med): LOW Date Received: 03/24/01

% 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	3.5	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.: 0698A SAS No.: _____ SDG No.: A0698

Matrix (soil/water): WATER Lab Sample ID: F010698A-04

Level (low/med): LOW Date Received: 03/27/01

% 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	3.5	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-03

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 0698A SAS No.: _____ SDG No.: A0698

Matrix (soil/water): WATER Lab Sample ID: F010698A-05

Level (low/med): LOW Date Received: 03/27/01

% 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	10.6			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-05

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 0698A SAS No.: _____ SDG No.: A0698

Matrix (soil/water): WATER Lab Sample ID: F010698A-06

Level (low/med): LOW Date Received: 03/27/01

% 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	3.5	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-07

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 0698A SAS No.: _____ SDG No.: A0698

Matrix (soil/water): WATER Lab Sample ID: F010698A-08

Level (low/med): LOW Date Received: 03/27/01

% 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

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

FB032601

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 0698A SAS No.: _____ SDG No.: A0698

Matrix (soil/water): WATER Lab Sample ID: F010698A-10

Level (low/med): LOW Date Received: 03/27/01

% 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	3.5	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.: 0698A SAS No.: _____ SDG No.: A0698

Matrix (soil/water): WATER Lab Sample ID: T010698A-01

Level (low/med): LOW Date Received: 03/24/01

% 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	163.	B		P
7440-36-0	Antimony	3.6	U		P
7440-38-2	Arsenic	14.2			P
7440-39-3	Barium	26.7	B		P
7440-41-7	Beryllium	0.20	U		P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	24800			P
7440-47-3	Chromium	2.3	B		P
7440-48-4	Cobalt	1.3	B		P
7440-50-8	Copper	6.6	B		P
7439-89-6	Iron	1490			P
7439-92-1	Lead	3.3			P
7439-95-4	Magnesium	3560	B		P
7439-96-5	Manganese	219.			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	2.7	B		P
7440-09-7	Potassium	4780	B		P
7782-49-2	Selenium	3.6	U	N	P
7440-22-4	Silver	1.0	B		P
7440-23-5	Sodium	46300			P
7440-28-0	Thallium	8.4	B		P
7440-62-2	Vanadium	1.4	B		P
7440-66-6	Zinc	82.2			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-01

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 0698A SAS No.: _____ SDG No.: A0698

Matrix (soil/water): WATER Lab Sample ID: T010698A-02

Level (low/med): LOW Date Received: 03/24/01

% 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	3.6	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	33.3			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	34.9			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-10

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 0698A SAS No.: _____ SDG No.: A0698

Matrix (soil/water): WATER Lab Sample ID: T010698A-03

Level (low/med): LOW Date Received: 03/24/01

% 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	7.6	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	33.9			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	35.2			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.16	B		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-02

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 0698A SAS No.: _____ SDG No.: A0698

Matrix (soil/water): WATER Lab Sample ID: T010698A-04

Level (low/med): LOW Date Received: 03/27/01

% 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	3.5	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	1.2	B		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	1.8	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.: 0698A SAS No.: _____ SDG No.: A0698

Matrix (soil/water): WATER Lab Sample ID: T010698A-05

Level (low/med): LOW Date Received: 03/27/01

% 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	22.0			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	3.6	B		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	3.0			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.: 0698A SAS No.: _____ SDG No.: A0698

Matrix (soil/water): WATER Lab Sample ID: T010698A-06

Level (low/med): LOW Date Received: 03/27/01

% 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	3.5	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	14.0			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	28.8			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.11	B		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.: 0698A SAS No.: _____ SDG No.: A0698

Matrix (soil/water): WATER Lab Sample ID: T010698A-07

Level (low/med): LOW Date Received: 03/27/01

% 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	8.4	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	23.8			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	63.1			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: BROWN Clarity Before: CLOUDY Texture: _____

Color After: YELLOW 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.: 0698A SAS No.: _____ SDG No.: A0698

Matrix (soil/water): WATER Lab Sample ID: T010698A-08

Level (low/med): LOW Date Received: 03/27/01

% 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	7.7	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	7.0	B		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	12.6			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

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-09A

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 0698A SAS No.: _____ SDG No.: A0698

Matrix (soil/water): WATER Lab Sample ID: T010698A-09

Level (low/med): LOW Date Received: 03/27/01

% 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	3.5	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	1.8	B		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2.5	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.

FB032601

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 0698A SAS No.: _____ SDG No.: A0698

Matrix (soil/water): WATER Lab Sample ID: T010698A-10

Level (low/med): LOW Date Received: 03/27/01

% 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	24.0	U		P
7440-36-0	Antimony	3.6	U		P
7440-38-2	Arsenic	3.5	U		P
7440-39-3	Barium	2.1	B		P
7440-41-7	Beryllium	0.20	U		P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	1280	B		P
7440-47-3	Chromium	0.30	U		P
7440-48-4	Cobalt	0.72	B		P
7440-50-8	Copper	1.4	B		P
7439-89-6	Iron	17.3	B		P
7439-92-1	Lead	1.8	U		P
7439-95-4	Magnesium	255.	B		P
7439-96-5	Manganese	3.0	B		P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	0.70	U		P
7440-09-7	Potassium	483.	B		P
7782-49-2	Selenium	3.6	U	N	P
7440-22-4	Silver	0.67	B		P
7440-23-5	Sodium	445.	B		P
7440-28-0	Thallium	7.4	B		P
7440-62-2	Vanadium	0.40	U		P
7440-66-6	Zinc	7.3	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.: A0698

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	10970.57	99.7	5500.0	5381.35	97.8	5423.65	98.6	P
Antimony	1000.0	1014.65	101.5	500.0	501.46	100.3	507.66	101.5	P
Arsenic	1000.0	996.42	99.6	500.0	499.83	100.0	499.41	99.9	P
Barium	1000.0	1007.83	100.8	500.0	501.83	100.4	503.61	100.7	P
Beryllium	1000.0	992.50	99.2	500.0	498.58	99.7	494.60	98.9	P
Cadmium	1000.0	1016.74	101.7	500.0	510.54	102.1	504.04	100.8	P
Calcium	27000.0	27582.86	102.2	19800.0	20084.70	101.4	19801.63	100.0	P
Chromium	1000.0	1014.61	101.5	500.0	508.44	101.7	503.06	100.6	P
Cobalt	1000.0	1006.71	100.7	500.0	503.93	100.8	500.04	100.0	P
Copper	1000.0	1023.31	102.3	500.0	500.81	100.2	504.91	101.0	P
Iron	11000.0	11118.15	101.1	5500.0	5538.45	100.7	5450.67	99.1	P
Lead	1000.0	1036.90	103.7	500.0	520.01	104.0	510.88	102.2	P
Magnesium	27000.0	26242.22	97.2	19800.0	18434.73	93.1	18389.56	92.9	P
Manganese	1000.0	1019.98	102.0	500.0	511.44	102.3	506.44	101.3	P
Mercury	5.0	5.06	101.2	5.0	5.08	101.6	4.90	98.0	CV
Nickel	1000.0	1003.35	100.3	500.0	499.45	99.9	496.64	99.3	P
Potassium	20000.0	19936.75	99.7	10000.0	9788.59	97.9	9497.84	95.0	P
Selenium	1000.0	1012.35	101.2	500.0	510.31	102.1	503.32	100.7	P
Silver	100.0	102.47	102.5	50.0	51.47	102.9	51.20	102.4	P
Sodium	27000.0	25628.64	94.9	19800.0	18761.89	94.8	18850.14	95.2	P
Thallium	1000.0	1019.87	102.0	500.0	518.98	103.8	510.25	102.0	P
Vanadium	1000.0	1016.82	101.7	500.0	506.53	101.3	503.33	100.7	P
Zinc	1000.0	1019.03	101.9	500.0	516.62	103.3	512.14	102.4	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.: A0698

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	5360.20	97.4	5479.30	99.6	P
Antimony				500.0	505.31	101.1	515.71	103.1	P
Arsenic				500.0	500.82	100.2	502.26	100.4	P
Barium				500.0	500.36	100.1	508.59	101.7	P
Beryllium				500.0	500.30	100.1	500.53	100.1	P
Cadmium				500.0	509.52	101.9	512.34	102.5	P
Calcium				19800.0	20032.14	101.2	20159.41	101.8	P
Chromium				500.0	508.24	101.6	512.13	102.4	P
Cobalt				500.0	506.47	101.3	507.97	101.6	P
Copper				500.0	502.82	100.6	511.74	102.3	P
Iron				5500.0	5509.19	100.2	5542.09	100.8	P
Lead				500.0	517.57	103.5	521.63	104.3	P
Magnesium				19800.0	18611.34	94.0	18758.37	94.7	P
Manganese				500.0	508.91	101.8	513.71	102.7	P
Mercury				5.0	4.73	94.6			CV
Nickel				500.0	504.80	101.0	507.08	101.4	P
Potassium				10000.0	9469.42	94.7	9588.59	95.9	P
Selenium				500.0	505.95	101.2	509.58	101.9	P
Silver				50.0	51.54	103.1	51.93	103.9	P
Sodium				19800.0	18718.87	94.5	18974.95	95.8	P
Thallium				500.0	514.76	103.0	512.82	102.6	P
Vanadium				500.0	506.99	101.4	511.75	102.4	P
Zinc				500.0	514.51	102.9	517.82	103.6	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.: A0698

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	5426.27	98.6			P
Antimony				500.0	512.92	102.6			P
Arsenic				500.0	506.87	101.4			P
Barium				500.0	505.69	101.1			P
Beryllium				500.0	499.93	100.0			P
Cadmium				500.0	513.96	102.8			P
Calcium				19800.0	20164.52	101.8			P
Chromium				500.0	513.14	102.6			P
Cobalt				500.0	508.29	101.6			P
Copper				500.0	507.21	101.4			P
Iron				5500.0	5611.69	102.0			P
Lead				500.0	520.07	104.0			P
Magnesium				19800.0	18626.67	94.1			P
Manganese				500.0	513.92	102.8			P
Mercury									NR
Nickel				500.0	506.02	101.2			P
Potassium				10000.0	9349.36	93.5			P
Selenium				500.0	507.10	101.4			P
Silver				50.0	52.46	104.9			P
Sodium				19800.0	18799.30	94.9			P
Thallium				500.0	520.58	104.1			P
Vanadium				500.0	511.28	102.2			P
Zinc				500.0	518.84	103.8			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.: A0698

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	122.53	102.1	121.30	101.1
Arsenic				20.0	19.77	98.8	21.65	108.2
Barium								
Beryllium				10.0	9.66	96.7	9.80	98.0
Cadmium				10.0	10.15	101.6	9.72	97.2
Calcium								
Chromium				20.0	19.79	99.0	19.36	96.8
Cobalt				100.0	99.66	99.7	99.38	99.4
Copper				50.0	45.81	91.6	46.18	92.4
Iron								
Lead				6.0	5.35	89.2	8.00	133.5
Magnesium								
Manganese				30.0	29.62	98.8	29.62	98.8
Mercury								
Nickel				80.0	80.18	100.2	79.78	99.7
Potassium								
Selenium				10.0	7.82	78.2	5.09	50.9
Silver				20.0	19.39	97.0	19.53	97.7
Sodium								
Thallium				20.0	28.66	143.3	27.05	135.2
Vanadium				100.0	98.89	98.9	99.35	99.4
Zinc				40.0	38.84	97.1	39.03	97.6
Cyanide								

U.S. EPA - CLP

3
BLANKS

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A0698

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	24.0	U	24.0	U	-89.2	B	24.0	U	24.000	U	P
Antimony	3.6	U	3.6	U	5.1	B	3.6	U	3.600	U	P
Arsenic	3.5	U	3.5	U	3.5	U	3.5	U	3.500	U	P
Barium	0.1	U	0.1	U	0.1	U	0.1	U	0.100	U	P
Beryllium	0.2	U	0.2	U	-0.3	B	0.2	U	0.200	U	P
Cadmium	0.3	U	-0.5	B	0.3	U	-0.6	B	0.300	U	P
Calcium	3.1	B	6.8	B	5.7	B	2.5	B	2.497	B	P
Chromium	0.3	U	0.3	U	0.3	U	0.3	U	0.300	U	P
Cobalt	0.8	B	0.6	U	0.7	B	0.6	U	0.836	B	P
Copper	-1.4	B	-2.3	B	-2.3	B	-1.8	B	0.500	U	P
Iron	5.7	U	5.7	U	5.7	U	5.7	U	5.700	U	P
Lead	1.8	U	1.8	U	-2.0	B	1.8	U	1.800	U	P
Magnesium	4.5	B	7.2	B	7.5	B	4.2	B	3.600	U	P
Manganese	0.1	U	0.1	U	0.1	U	0.1	U	0.100	U	P
Mercury	0.1	U	0.1	U	0.1	B	0.1	U	0.100	U	CV
Nickel	0.7	U	0.7	U	0.9	B	0.8	B	0.700	U	P
Potassium	612.8	B	603.5	B	869.7	B	664.2	B	1205.762	B	P
Selenium	3.6	U	3.6	U	-4.5	B	-4.1	B	3.600	U	P
Silver	0.6	B	0.4	U	0.9	B	0.8	B	1.199	B	P
Sodium	37.1	B	33.0	B	51.4	B	44.6	B	52.273	B	P
Thallium	5.8	B	4.2	U	5.5	B	4.8	B	8.059	B	P
Vanadium	0.6	B	0.4	U	0.6	B	0.4	U	0.400	U	P
Zinc	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Cyanide											NR

U.S. EPA - CLP

3
BLANKS

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A0698

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			-25.0	B	24.0	U					P
Antimony			3.6	U	3.6	U					P
Arsenic			-4.4	B	3.5	U					P
Barium			0.1	U	0.1	U					P
Beryllium			0.2	U	0.2	U					P
Cadmium			-0.5	B	0.3	U					P
Calcium			2.2	U	11.2	B					P
Chromium			-0.4	B	0.3	U					P
Cobalt			0.6	U	0.6	U					P
Copper			-2.1	B	-2.0	B					P
Iron			-8.8	B	5.7	U					P
Lead			1.8	U	1.8	U					P
Magnesium			3.6	U	6.4	B					P
Manganese			0.1	U	0.1	U					P
Mercury											NR
Nickel			0.7	U	0.7	U					P
Potassium			725.0	B	552.1	B					P
Selenium			3.6	U	-4.2	B					P
Silver			0.4	U	1.0	B					P
Sodium			63.5	B	45.5	B					P
Thallium			6.4	B	9.0	B					P
Vanadium			0.5	B	0.5	B					P
Zinc			1.0	U	2.1	B					P
Cyanide											NR

U.S. EPA - CLP

4
ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A0698

ID Number: JA61E 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	546581	542228.0	108.4	544220	540331.6	108.0
Antimony		600	-6	601.5	100.2	1	607.5	101.2
Arsenic		100	1	95.4	95.4	1	94.7	94.7
Barium		500	2	537.3	107.4	2	536.3	107.2
Beryllium		500	0	475.9	95.1	0	476.4	95.2
Cadmium		1000	1	994.3	99.4	1	998.7	99.8
Calcium	500000	500000	504330	499806.3	99.9	504657	501441.9	100.2
Chromium		500	1	506.8	101.3	2	508.7	101.7
Cobalt		500	-2	497.5	99.5	-2	499.4	99.8
Copper		500	0	620.0	124.0	-1	615.4	123.0
Iron	200000	200000	207895	208021.7	104.0	209038	208125.3	104.0
Lead		50	3	54.3	108.7	0	55.2	110.4
Magnesium	500000	500000	574460	571650.6	114.3	573652	569443.4	113.8
Manganese		500	-4	513.0	102.6	-4	514.0	102.8
Mercury								
Nickel		1000	2	1040.2	104.0	2	1039.7	103.9
Potassium			-2074	-2399.7		-2288	-2245.7	
Selenium		50	4	60.2	120.5	8	60.1	120.2
Silver		200	0	231.6	115.8	0	231.5	115.7
Sodium			52	40.2		174	74.2	
Thallium		100	-9	92.4	92.4	-7	90.1	90.1
Vanadium		500	-1	506.6	101.3	-1	508.2	101.6
Zinc		1000	2	1022.4	102.2	2	1026.2	102.6
Cyanide								

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

SW-09S

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 0698A SAS No.: _____ SDG No.: A0698

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	52.3903		8.6503	B	40.00	109.4		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.: 0698A SAS No.: _____ SDG No.: A0698

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	2060.7620		163.3393	B	2000.00	94.9		P
Antimony	75-125	470.3013		3.6000	U	500.00	94.1		P
Arsenic	75-125	51.5022		14.2414		40.00	93.2		P
Barium	75-125	1852.3250		26.6997	B	2000.00	91.3		P
Beryllium	75-125	44.9145		0.2000	U	50.00	89.8		P
Cadmium	75-125	4.4504	B	0.3000	U	5.00	89.0		P
Calcium				24852.6200		0.00	0.0		P
Chromium	75-125	186.2596		2.2811	B	200.00	92.0		P
Cobalt	75-125	452.7022		1.3186	B	500.00	90.3		P
Copper	75-125	242.4115		6.6230	B	250.00	94.3		P
Iron	75-125	2347.6530		1487.8500		1000.00	86.0		P
Lead	75-125	21.6306		3.2751		20.00	91.8		P
Magnesium				3557.3830	B	0.00	0.0		P
Manganese	75-125	679.0193		218.6688		500.00	92.1		P
Mercury	75-125	0.9840		0.1000	U	1.00	98.4		CV
Nickel	75-125	462.3773		2.7367	B	500.00	91.9		P
Potassium				4784.4580	B	0.00	0.0		P
Selenium	75-125	3.6000	U	2.23266 ~~3.6000~~	~~U~~	10.00	22.4 ~~36.0~~	N	P
Silver	75-125	48.6527		1.0230	B	50.00	95.2		P
Sodium				46324.7900		0.00	0.0		P
Thallium	75-125	52.8837		8.3929	B	50.00	89.0		P
Vanadium	75-125	449.0190		1.3693	B	500.00	89.5		P
Zinc	75-125	536.8505		82.1828		500.00	90.9		P
Cyanide									NR

Comments:
Total Metals

U.S. EPA - CLP

5B
POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

SW-09A

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 0698A SAS No.: _____ SDG No.: A0698

Matrix: WATER Level (low/med): LOW

Concentration Units: 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									NR
Nickel									NR
Potassium									NR
Selenium	75-125	10.2002		3.6000	U	10.00	102.0		P
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
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.: 0698A SAS No.: _____ SDG No.: A0698

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	.0	8.6503	B	15.7381		58.1		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.: 0698A SAS No.: _____ SDG No.: A0698

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	.0	163.3393	B	209.4628		24.7		P
Antimony		3.6000	U	3.6000	U			P
Arsenic	.0	14.2414		11.9707		17.3		P
Barium		26.6997	B	26.2109	B	1.8		P
Beryllium		0.2000	U	0.2000	U			P
Cadmium		0.3000	U	0.3000	U			P
Calcium	.0	24852.6200		24960.7400		0.4		P
Chromium		2.2811	B	2.4495	B	7.1		P
Cobalt		1.3186	B	1.5174	B	14.0		P
Copper		6.6230	B	7.2314	B	8.8		P
Iron		1487.8500		1506.8560		1.3		P
Lead	.0	3.2751		2.8745	B	13.0		P
Magnesium		3557.3830	B	3568.0620	B	0.3		P
Manganese		218.6688		221.6099		1.3		P
Mercury		0.1000	U	0.1000	U			CV
Nickel		2.7367	B	1.9628	B	32.9		P
Potassium		4784.4580	B	4572.6760	B	4.5		P
Selenium		3.6000	U	3.6000	U			P
Silver		1.0230	B	0.8788	B	15.2		P
Sodium		46324.7900		46485.9900		0.3		P
Thallium	.0	8.3929	B	12.9301		42.6		P
Vanadium		1.3693	B	0.9112	B	40.2		P
Zinc	.0	82.1828		83.6048		1.7		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.: A0698

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	2855.87	95.2						
Antimony	1000.0	1036.29	103.6						
Arsenic	1000.0	999.29	99.9						
Barium	300.0	301.03	100.3						
Beryllium	100.0	100.54	100.5						
Cadmium	300.0	295.93	98.6						
Calcium	15000.0	15454.28	103.0						
Chromium	300.0	301.17	100.4						
Cobalt	300.0	299.82	99.9						
Copper	300.0	294.48	98.2						
Iron	12500.0	12554.74	100.4						
Lead	1000.0	1011.20	101.1						
Magnesium	7500.0	7079.03	94.4						
Manganese	200.0	200.85	100.4						
Mercury	5.0	5.06	101.2						
Nickel	300.0	302.36	100.8						
Potassium	20000.0	20333.59	101.7						
Selenium	500.0	512.05	102.4						
Silver	300.0	297.74	99.2						
Sodium	2500.0	2193.54	87.7						
Thallium	1000.0	1010.53	101.0						
Vanadium	300.0	300.97	100.3						
Zinc	300.0	300.51	100.2						
Cyanide									

Total Metals

U.S. EPA - CLP

8
STANDARD ADDITION RESULTS

Lab Name: STL _____ Contract: _____

Lab Code: STL ___ Case No.: _____ SAS No.: _____ SDG No.: A0698

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.: 0698A SAS No.: _____ SDG No.: A0698

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	163.34	B	120.00	U	100.0		P
Antimony	3.60	U	18.00	U			P
Arsenic	14.24		17.50	U	100.0		P
Barium	26.70	B	26.35	B	1.3		P
Beryllium	0.20	U	1.00	U			P
Cadmium	0.30	U	1.50	U			P
Calcium	24852.62		24086.19	B	3.1		P
Chromium	2.28	B	2.12	B	7.2		P
Cobalt	1.32	B	7.15	B	442.4		P
Copper	6.62	B	2.50	U	100.0		P
Iron	1487.85		1412.17		5.1		P
Lead	3.28		9.00	U	100.0		P
Magnesium	3557.38	B	3397.21	B	4.5		P
Manganese	218.67		212.12		3.0		P
Mercury							NR
Nickel	2.74	B	6.31	B	130.6		P
Potassium	4784.46	B	7202.86	B	50.6		P
Selenium	3.60	U	18.00	U			P
Silver	1.02	B	3.71	B	263.0		P
Sodium	46324.79		38088.52		17.8		P
Thallium	8.39	B	63.57		657.4		P
Vanadium	1.37	B	4.04	B	194.9		P
Zinc	82.18		97.89	B	19.1		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.: A0698

ICP ID Number: JA61E Date: 01/15/01

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	24.0	P
Antimony	206.83		60.0	3.6	P
Arsenic	193.60		10.0	3.5	P
Barium	493.40		200.0	.1	P
Beryllium	234.86		5.0	.2	P
Cadmium	228.80		5.0	.3	P
Calcium	317.93		5000.0	2.2	P
Chromium	267.70		10.0	.3	P
Cobalt	228.61		50.0	.6	P
Copper	324.75		25.0	.5	P
Iron	271.44		100.0	5.7	P
Lead	220.35		3.0	1.8	P
Magnesium	279.07		5000.0	3.6	P
Manganese	257.61		15.0	.1	P
Mercury			.2		
Nickel	231.60		40.0	.7	P
Potassium	766.49		5000.0	74.0	P
Selenium	196.02		5.0	3.6	P
Silver	328.06		10.0	.4	P
Sodium	589.59		5000.0	5.2	P
Thallium	189.90		10.0	4.2	P
Vanadium	292.40		50.0	.4	P
Zinc	213.85		20.0	1.0	P

Comments:

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10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A0698

ICP ID Number: _____ Date: 01/15/01

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:

11A
ICP Interelement correction Factors (Annually)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A0698

ICP ID Number: JA61E 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.: A0698

ICP ID Number: JA61E 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)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A0698

ICP ID Number: JA61E 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.: A0698

ICP ID Number: JA61E 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.: A0698

ICP ID Number: JA61E 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.: A0698

ICP ID Number: JA61E 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.: A0698

ICP ID Number: JA61E Date: 01/15/01

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:

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13
PREPARATION LOG

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 0698A SAS No.: _____ SDG No.: A0698

Method: P

EPA Sample No.	Preparation Date	Weight (~~gram~~) mL	Volume (mL)
F010698A-01	03/31/01	100.00	100
F010698A-01D	03/31/01	100.00	100
F010698A-01S	03/31/01	100.00	100
F010698A-02	03/31/01	100.00	100
F010698A-03	03/31/01	100.00	100
F010698A-04	03/31/01	100.00	100
F010698A-05	03/31/01	100.00	100
F010698A-06	03/31/01	100.00	100
F010698A-08	03/31/01	100.00	100
F010698A-10	03/31/01	100.00	100
LCSW1	03/31/01	100.00	100
PBW1	03/31/01	100.00	100
T010698A-01	03/31/01	100.00	100
T010698A-01D	03/31/01	100.00	100
T010698A-01S	03/31/01	100.00	100
T010698A-02	03/31/01	100.00	100
T010698A-03	03/31/01	100.00	100
T010698A-04	03/31/01	100.00	100
T010698A-05	03/31/01	100.00	100
T010698A-06	03/31/01	100.00	100
T010698A-07	03/31/01	100.00	100
T010698A-08	03/31/01	100.00	100
T010698A-09	03/31/01	100.00	100
T010698A-10	03/31/01	100.00	100

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13
PREPARATION LOG

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 0698A SAS No.: _____ SDG No.: A0698

Method: CV

EPA Sample No.	Preparation Date	Weight (~~gram~~) mL	Volume (mL)
010698A-01	03/29/01	25.00	25
010698A-01D	03/29/01	25.00	25
010698A-01S	03/29/01	25.00	25
010698A-01SD	03/29/01	25.00	25
010698A-02	03/29/01	25.00	25
010698A-03	03/29/01	25.00	25
010698A-04	03/29/01	25.00	25
010698A-05	03/29/01	25.00	25
010698A-06	03/29/01	25.00	25
010698A-07	03/29/01	25.00	25
010698A-08	03/29/01	25.00	25
010698A-09	03/29/01	25.00	25
010698A-10	03/29/01	25.00	25
LCSW1	03/29/01	25.00	25
~~LCSW2~~	03/29/01	〃	25
~~LCSW3~~	03/29/01	〃	25
PBW1	03/29/01	25.00	25
~~PBW2~~	03/29/01	〃	25
~~PBW3~~	03/29/01	〃	25

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14
ANALYSIS RUN LOG

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A0698

Instrument ID Number: JA61E Method: P

Start Date: 04/03/01 End Date: 04/03/01

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	1243		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	1249			X	X	X	X	X		X	X	X		X		X		X	X	X	X		X	X	X	
S8	1.00	1255			X	X	X	X	X		X	X	X		X		X		X	X	X	X		X	X	X	
S4	1.00	1301		X		X	X	X	X		X	X	X		X		X		X		X	X		X	X	X	
S9	1.00	1305		X						X				X		X							X				
S6	1.00	1310		X						X				X		X							X				
S5	1.00	1313			X															X							
S3	1.00	1318								X				X		X							X				
ICV1	1.00	1459		X		X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	X	X	X	
ICV1	1.00	1505			X															X							
ICB1	1.00	1511		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	1517																									
CRI1	1.00	1523			X	X		X	X		X	X	X		X		X		X		X	X		X	X	X	
ICSAI	1.00	1529		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	1535		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	1541		X		X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	X	X	X	
CCV1	1.00	1547			X															X							
CCB1	1.00	1553		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
PBW033101	1.00	1559		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	1559		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	1605		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
T010698A-01	1.00	1611		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
T010698A-01D	1.00	1617		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
T010698A-01S	1.00	1624		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
T010698A-01A	1.00	1630	98.8																		X						
T010698A-01L	5.00	1636		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
F010698A-01	1.00	1642				X																					
F010698A-01D	1.00	1648				X																					
F010698A-01S	1.00	1654				X																					
CCV2	1.00	1700		X		X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	X	X	X	
CCV2	1.00	1706			X															X							
CCB2	1.00	1712		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
T010698A-02	1.00	1718				X					X				X												

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A0698

Instrument ID Number: JA61E Method: P

Start Date: 04/03/01 End Date: 04/03/01

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
F010698A-02	1.00	1724				X																					
T010698A-03	1.00	1730				X					X				X												
F010698A-03	1.00	1736				X																					
ZZZZZZ	20.0	1742																									
ZZZZZZ	20.0	1748																									
ZZZZZZ	1.00	1754																									
T010698A-04	1.00	1800				X					X				X												
F010698A-04	1.00	1806				X																					
T010698A-05	1.00	1812				X					X				X												
CCV3	1.00	1818		X		X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	X	X	X	
CCV3	1.00	1824			X															X							
CCB3	1.00	1830		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
F010698A-05	1.00	1836				X																					
T010698A-06	1.00	1842				X					X				X												
F010698A-06	1.00	1848				X																					
T010698A-07	1.00	1854				X					X				X												
T010698A-08	1.00	1900				X					X				X												
F010698A-08	1.00	1906				X																					
T010698A-09	1.00	1912				X					X				X												
T010698A-10	1.00	1918		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
F010698A-10	1.00	1924				X																					
ZZZZZZ	1.00	1930																									
CCV4	1.00	1936		X		X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	X	X	X	
CCV4	1.00	1942			X															X							
CCB4	1.00	1948		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	1954																									
ZZZZZZ	1.00	2000																									
ZZZZZZ	1.00	2006																									
ZZZZZZ	1.00	2012																									
ZZZZZZ	1.00	2018																									
ZZZZZZ	1.00	2024																									
ZZZZZZ	1.00	2030																									
CRI2	1.00	2036			X	X		X	X		X	X	X		X		X		X		X	X		X	X	X	

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A0698

Instrument ID Number: JA61E Method: P

Start Date: 04/03/01 End Date: 04/03/01

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
ICSAF	1.00	2042		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	2048		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	2054		X		X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	X	X	X	
CCV5	1.00	2100			X															X							
CCB5	1.00	2107		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

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A0698

Instrument ID Number: HG4 Method: CV

Start Date: 03/30/01 End Date: 03/30/01

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	1103																X									
S0	1.00	1105																X									
S1	1.00	1107																X									
S2	1.00	1109																X									
S5	1.00	1111																X									
S1	1.00	1114																X									
ICV1	1.00	1116																X									
ICV1	1.00	1116																X									
ICB1	1.00	1118																X									
ICB5	1.00	1118																X									
CCV1	1.00	1120																X									
CCV9	1.00	1120																X									
CCB1	1.00	1126																X									
CCB13	1.00	1126																X									
PBW1	1.00	1128																X									
PBW3	1.00	1128																X									
LCSW1	1.00	1129																X									
LCSW3	1.00	1129																X									
T010698A-01	1.00	1131																X									
T010698A-01D	1.00	1133																X									
T010698A-01S	1.00	1134																X									
T010698A-01S	1.00	1136																									
T010698A-02	1.00	1138																X									
T010698A-03	1.00	1140																X									
T010698A-04	1.00	1142																X									
T010698A-05	1.00	1144																X									
CCV10	1.00	1145																X									
CCV2	1.00	1145																X									
CCB14	1.00	1148																X									
CCB2	1.00	1148																X									
T010698A-06	1.00	1149																X									
T010698A-07	1.00	1151																X									
T010698A-08	1.00	1153																X									

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A0698

Instrument ID Number: HG4 Method: CV

Start Date: 03/30/01 End Date: 03/30/01

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
T010698A-09	1.00	1155																X									
T010698A-10	1.00	1157																X									
ZZZZZZ	1.00	1158																									
ZZZZZZ	1.00	1200																									
ZZZZZZ	1.00	1202																									
ZZZZZZ	1.00	1204																									
ZZZZZZ	1.00	1206																									
CCV11	1.00	1208																X									
CCV3	1.00	1208																X									
CCB15	1.00	1211																X									
CCB3	1.00	1211																X									

COVER PAGE - WET CHEM ANALYSES DATA PACKAGE

Lab Name: STL Contract:

Lab Code: STL Case No.: 0698A SAS No.: SDG No.: A0698

SOW No.:

Sample No.	Lab Sample ID
SW-09	010698A-01
SW-01	010698A-02
SW-10	010698A-03
SW-02	010698A-04
SW-03	010698A-05
SW-05	010698A-06
SW-06	010698A-07
SW-07	010698A-08
SW-09A	010698A-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: Melissa Haas Name: Melissa Haas

Date: 04/03/01 Title: Data Manager

WET CHEM ANALYSIS

3
BLANKS

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 0698A SAS No.: _____ SDG No.: A0698

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.: 0698A SAS No.: _____ SDG No.: A0698

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

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Units	M
TSS	20	7.2		6.4		11.8		mg/L	G

FORM V - WC

6
LABORATORY CONTROL SAMPLE

Lab Name: STL Contract:

Lab Code: STL Case No.: 0698A SAS No.: SDG No.: A0698

Analyte	True	LCS Found	%R	units	LCS Source
TSS	176.7	161	91.1	mg/L	
TSS	176.7	184	104.1	mg/L	

FORM VI - WC

7

HOLD TIME REPORT

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 0698A SAS No.: _____ SDG No.: A0698

Analyte : TSS

Client Sample ID	Date Received	Date Prepped	Date Analyzed
SW-09	03/24/01	03/26/01	03/26/01 00:00
SW-09	03/24/01	03/26/01	03/26/01 00:00
SW-01	03/24/01	03/26/01	03/26/01 00:00
SW-10	03/24/01	03/26/01	03/26/01 00:00
SW-02	03/27/01	03/27/01	03/27/01 00:00
SW-03	03/27/01	03/27/01	03/27/01 00:00
SW-05	03/27/01	03/27/01	03/27/01 00:00
SW-06	03/27/01	03/27/01	03/27/01 00:00
SW-07	03/27/01	03/27/01	03/27/01 00:00
SW-09A	03/27/01	03/27/01	03/27/01 00:00

Spring Storm 2A

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

May 29, 2001

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

RECEIVED

Dear Mr. Mctiernan :

Please find enclosed the analytical results of 10 sample(s) received at our laboratory on April 3, 2001. 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 #7001-0741A	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,

Cheryl A. Cascella for

Jeffrey C. Curran
Laboratory Manager

JCC

This report contains 95 pages.

7001-0741A
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 and all holding times were met.

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.

Aqueous

TABLE AS-1.0
7001-0741A
ROUX ASSOCIATES-MA
TAL METALS (Dissolved)

All values are ug/L.

Client Sample I.D.	SW-01	SW-02	SW-06	SW-07
Lab Sample I.D.	010741A-01	010741A-02	010741A-05	010741A-06
Aluminum	NR	NR	NR	NR
Antimony	NR	NR	NR	NR
Arsenic	4.2U	4.2U	4.2U	4.2U
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

Aqueous

TABLE AS-1.1
7001-0741A
ROUX ASSOCIATES-MA
TAL METALS (Dissolved)

All values are ug/L.

Client Sample I.D.	SW-10	SW-04	SW-09	FIELD BLANK
Lab Sample I.D.	010741A-07	010741A-08	010741A-09	010741A-10
Aluminum	NR	NR	NR	NR
Antimony	NR	NR	NR	NR
Arsenic	4.2U	7.1B	4.2U	4.2U
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

Aqueous

TABLE AS-1.2
7001-0741A
ROUX ASSOCIATES-MA
TAL METALS (Total)

All values are ug/L.

Client Sample I.D.	SW-01	SW-02	SW-03	SW-05
Lab Sample I.D.	010741A-01	010741A-02	010741A-03	010741A-04
Aluminum	NR	NR	NR	NR
Antimony	NR	NR	NR	NR
Arsenic	2.4U	2.5B	76.3	2.4U
Barium	NR	NR	NR	NR
Beryllium	NR	NR	NR	NR
Cadmium	NR	NR	NR	NR
Calcium	NR	NR	NR	NR
Chromium	6.5B	1.8B	11.2	10.3
Cobalt	NR	NR	NR	NR
Copper	NR	NR	NR	NR
Iron	NR	NR	NR	NR
Lead	9.4	2.9B	12.4	20.9
Magnesium	NR	NR	NR	NR
Manganese	NR	NR	NR	NR
Mercury	0.10U	0.10U	0.10U	0.10U
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

Aqueous

TABLE AS-1.3
7001-0741A
ROUX ASSOCIATES-MA
TAL METALS (Total)

All values are ug/L.

Client Sample I.D.	SW-06	SW-07	SW-10	SW-04
Lab Sample I.D.	010741A-05	010741A-06	010741A-07	010741A-08
Aluminum	NR	NR	NR	255.
Antimony	NR	NR	NR	1.5U
Arsenic	6.0B	2.4U	2.5B	6.0B
Barium	NR	NR	NR	25.0B
Beryllium	NR	NR	NR	0.10U
Cadmium	NR	NR	NR	0.49B
Calcium	NR	NR	NR	25900
Chromium	17.6	6.4B	6.2B	4.1B
Cobalt	NR	NR	NR	1.2B
Copper	NR	NR	NR	13.6B
Iron	NR	NR	NR	881.
Lead	27.5	7.0	7.7	6.0
Magnesium	NR	NR	NR	3720B
Manganese	NR	NR	NR	163.
Mercury	0.10U	0.10U	0.10U	0.10U
Nickel	NR	NR	NR	3.3B
Potassium	NR	NR	NR	5100
Selenium	NR	NR	NR	3.0B
Silver	NR	NR	NR	0.40U
Sodium	NR	NR	NR	57900
Thallium	NR	NR	NR	8.2U
Vanadium	NR	NR	NR	0.87B
Zinc	NR	NR	NR	193.

See Appendix for qualifier definitions

Aqueous

TABLE AS-1.4
7001-0741A
ROUX ASSOCIATES-MA
TAL METALS (Total)

All values are ug/L.

Client Sample I.D.	SW-09	FIELD BLANK		
Lab Sample I.D.	010741A-09	010741A-10		
Aluminum	364.	41.7B		
Antimony	1.5U	1.5U		
Arsenic	7.2B	2.4U		
Barium	28.5B	8.9B		
Beryllium	0.10U	0.10U		
Cadmium	0.30U	0.30U		
Calcium	25500	14800		
Chromium	3.3B	0.98B		
Cobalt	1.2B	0.50U		
Copper	12.4B	3.9B		
Iron	1180	216.		
Lead	3.3	2.2U		
Magnesium	4060B	2510B		
Manganese	170.	35.6		
Mercury	0.10U	0.10U		
Nickel	2.2B	1.0U		
Potassium	5120	1560B		
Selenium	2.7B	2.6U		
Silver	0.51B	0.40U		
Sodium	63400	23000		
Thallium	8.2U	8.2U		
Vanadium	1.3B	0.44B		
Zinc	202.	53.8		

See Appendix for qualifier definitions

1

WET CHEM ANALYSIS DATA SHEET

SAMPLE NO.

SW-01

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 0741A SAS No.: _____ SDG No.: A0741

Matrix (soil/water): WATER Lab Sample ID: 010741A-01

% Solids: 0 Date Received: 04/03/01

CAS No.	Analyte	Concentration	C	Units	Q	M
	TSS	5.2		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.: 0741A SAS No.: _____ SDG No.: A0741

Matrix (soil/water): WATER Lab Sample ID: 010741A-02

% Solids: 0 Date Received: 04/03/01

CAS No.	Analyte	Concentration	C	Units	Q	M
	TSS	14.0		mg/L		G

Comments:

1

WET CHEM ANALYSIS DATA SHEET

SAMPLE NO.

SW-03

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 0741A SAS No.: _____ SDG No.: A0741

Matrix (soil/water): WATER Lab Sample ID: 010741A-03

% Solids: 0 Date Received: 04/03/01

CAS No.	Analyte	Concentration	C	Units	Q	M
	TSS	55.6		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.: 0741A SAS No.: _____ SDG No.: A0741

Matrix (soil/water): WATER Lab Sample ID: 010741A-04

% Solids: 0 Date Received: 04/03/01

CAS No.	Analyte	Concentration	C	Units	Q	M
	TSS	44.4		mg/L		G

Comments:

1
WET CHEM ANALYSIS DATA SHEET

SAMPLE NO.

SW-06

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 0741A SAS No.: _____ SDG No.: A0741

Matrix (soil/water): WATER Lab Sample ID: 010741A-05

% Solids: 0 Date Received: 04/03/01

CAS No.	Analyte	Concentration	C	Units	Q	M
	TSS	142.		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.: 0741A SAS No.: _____ SDG No.: A0741

Matrix (soil/water): WATER Lab Sample ID: 010741A-06

% Solids: 0 Date Received: 04/03/01

CAS No.	Analyte	Concentration	C	Units	Q	M
	TSS	27.2		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.: 0741A SAS No.: _____ SDG No.: A0741

Matrix (soil/water): WATER Lab Sample ID: 010741A-07

% Solids: 0 Date Received: 04/03/01

CAS No.	Analyte	Concentration	C	Units	Q	M
	TSS	6.0		mg/L		G

Comments:

1
WET CHEM ANALYSIS DATA SHEET

SAMPLE NO.

SW-04

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 0741A SAS No.: _____ SDG No.: A0741

Matrix (soil/water): WATER Lab Sample ID: 010741A-08

% Solids: 0 Date Received: 04/03/01

CAS No.	Analyte	Concentration	C	Units	Q	M
	TSS	7.2		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.: 0741A SAS No.: _____ SDG No.: A0741

Matrix (soil/water): WATER Lab Sample ID: 010741A-09

% Solids: 0 Date Received: 04/03/01

CAS No.	Analyte	Concentration	C	Units	Q	M
	TSS	14.4		mg/L		G

Comments:

FORM I - WC

SEVERN TRENT SERVICES

STL Connecticut

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 February 2001)

State	Responsible 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 NELAC	10602
North Carolina	Division of Environmental Management	Wastewater	388
Rhode Island	Department of Health	Chemistry...Non-Potable Water and Wastewater	A43
Utah	Department of Health	RCRA	2032614456
Washington	Department of Ecology	Wastewater/Hazardous Waste	C231
Wisconsin	Department of Natural Resources	Wastewater	998355710

7001-0741A
ROUX ASSOCIATES-MA
SAMPLE SUMMARY

CLIENT ID	LAB ID	MATRIX	DATE COLLECTED	DATE RECEIVED
SW-01	010741A-01	WATER	03/29/01	04/03/01
SW-02	010741A-02	WATER	03/29/01	04/03/01
SW-03	010741A-03	WATER	03/29/01	04/03/01
SW-05	010741A-04	WATER	03/29/01	04/03/01
SW-06	010741A-05	WATER	03/29/01	04/03/01
SW-07	010741A-06	WATER	03/29/01	04/03/01
SW-10	010741A-07	WATER	03/29/01	04/03/01
SW-04	010741A-08	WATER	03/29/01	04/03/01
SW-09	010741A-09	WATER	03/29/01	04/03/01
FIELD BLANK	010741A-10	WATER	03/29/01	04/03/01

STL CT ANALYTICAL SUMMARY

Client ID: FIELD BLANK, SW-01, SW-02, SW-03, SW-04, SW-05, SW-06, SW-07, SW-09, SW-10
Job Number: 7001-0741A

Date: 5/30/101

Qty	Matrix	Analysis	Description
1	None	DISK	Diskette Prep.
7	WATER	AS-SW846	Arsenic
8	WATER	AS-SW846-D	Arsenic (Dissolved)
7	WATER	CR-SW846	Chromium
7	WATER	HG-SW846	Mercury
7	WATER	MET-PREP-ICAP	Metals ICAP Prep
8	WATER	MET-PREP-ICAP-D	Metals ICAP Prep (Di
3	WATER	MET-SW846-TAL	TAL Metals
7	WATER	PB-SW846	Lead
9	WATER	TSS-160.2	Total Suspended Soli

Severn Trent - Connecticut
Internal Chain-of-Custody

Client: ROUX

Trip Blank: —

QC: —

Project #: 06626M32

S.H.

STL Job #: 7D01 0741A

Date Received: 04-03-01

Sample #s: 01 - 10

Locations: 96

Laboratory Sample #	Relinquished by	Accepted by	Date	Time	Reason	Relinquished by	Accepted by	Date	Time
1-6	ML	SO	4/6	1r	TSS	SO	ML	4/6	2400
1-10	ML	GB	4/10	1550	Hg	GB	ML	4/10	1750
1-10	ML	CDM	4/10/01	1350	metals	NP	ML	4/17	1600

0020

STL Form# SMF00505.CT

Committed To *Your* Success

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

0021

CHAIN OF CUSTODY
ATOMIC SPECTROSCOPY DEPARTMENT

Job Number 7001-0741A 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
	[illegible]	4/11/01	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]	4/17/01	ICP
			FLAME
			FURN
			MERCURY
	Chemist	Date(s)	

I have reviewed and authorize the release of this job:

Complete	[illegible] for Dan Holfrich	04/18/01
	Supervisor	Date

Batch Assignment _____

Committed To *Your* Success

0022

Shelton, CT 06484
Tel (203) 929-8140
Fax (203)

CHAIN OF CUSTODY
ATOMIC SPECTROSCOPY DEPARTMENT

Job Number 0741A Sample Numbers F 1-10

(WATER) - SOIL - SLUDGE - EPTOX/TCLP

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

	Chemist	Date(s)	
Sample Prep			
			ICP/FLME
			FURN
			MERCURY

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

	Chemist	Date(s)	
Analysis	Nesta Fitzgerald	4/18/01	ICP
			FLAME
			FURN
			MERCURY

I have reviewed and authorize the release of this job:

Complete Calley Cue for Don Holbrich — Supervisor — 04/19/01 — Date

Batch Assignment

IEA / CT
LABORATORY CHRONICLE

SAMPLE PREPARATION AND ANALYSIS SUMMARY
INORGANIC ANALYSIS

JOB #: **7001-0741A**

SAMPLE ID	MATRIX	LIST REQUESTED	DATE RECEIVED	DATE DIGESTED	DATE ANALYZED
SW-01	WATER	AS-SW846	04/03/01	04/11/01	04/17/01
SW-01	WATER	AS-SW846-D	04/03/01		
SW-01	WATER	CR-SW846	04/03/01		
SW-01	WATER	HG-SW846	04/03/01		
SW-01	WATER	PB-SW846	04/03/01		
SW-02	WATER	AS-SW846	04/03/01		
SW-02	WATER	AS-SW846-D	04/03/01		
SW-02	WATER	CR-SW846	04/03/01		
SW-02	WATER	HG-SW846	04/03/01		
SW-02	WATER	PB-SW846	04/03/01		
SW-03	WATER	AS-SW846	04/03/01		
SW-03	WATER	CR-SW846	04/03/01		
SW-03	WATER	HG-SW846	04/03/01		
SW-03	WATER	PB-SW846	04/03/01		
SW-05	WATER	AS-SW846	04/03/01		
SW-05	WATER	CR-SW846	04/03/01		
SW-05	WATER	HG-SW846	04/03/01		
SW-05	WATER	PB-SW846	04/03/01		
SW-06	WATER	AS-SW846	04/03/01		
SW-06	WATER	AS-SW846-D	04/03/01		
SW-06	WATER	CR-SW846	04/03/01		
SW-06	WATER	HG-SW846	04/03/01		

Section Supervisor (signature) [signature]

Review & Approval (printed name) Colleen Coelho

(Date) 04/19/01

QC Supervisor (signature) _____

Review & Approval (printed name) _____

(Date) __/__/__

IEA / CT
LABORATORY CHRONICLE

SAMPLE PREPARATION AND ANALYSIS SUMMARY
INORGANIC ANALYSIS

JOB #: **7001-0741A**

SAMPLE ID	MATRIX	LIST REQUESTED	DATE RECEIVED	DATE DIGESTED	DATE ANALYZED
SW-06	WATER	PB-SW846	04/03/01	04/11/01	04/17/01
SW-07	WATER	AS-SW846	04/03/01		
SW-07	WATER	AS-SW846-D	04/03/01		
SW-07	WATER	CR-SW846	04/03/01		
SW-07	WATER	HG-SW846	04/03/01		
SW-07	WATER	PB-SW846	04/03/01		
SW-10	WATER	AS-SW846	04/03/01		
SW-10	WATER	AS-SW846-D	04/03/01		
SW-10	WATER	CR-SW846	04/03/01		
SW-10	WATER	HG-SW846	04/03/01		
SW-10	WATER	PB-SW846	04/03/01		
SW-04	WATER	AS-SW846-D	04/03/01		
SW-04	WATER	MET-SW846-TAL	04/03/01		
SW-09	WATER	AS-SW846-D	04/03/01		
SW-09	WATER	MET-SW846-TAL	04/03/01		
FIELD BLANK	WATER	AS-SW846-D	04/03/01		
FIELD BLANK	WATER	MET-SW846-TAL	04/03/01		

Section Supervisor (signature) [signature]

Review & Approval (printed name) Colleen Cox/HW

(Date) 04/19/01

QC Supervisor (signature) _____

Review & Approval (printed name) _____

(Date) __/__/__

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-01

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 0741A SAS No.: _____ SDG No.: A0741

Matrix (soil/water): WATER Lab Sample ID: F010741A-01

Level (low/med): LOW Date Received: 04/03/01

% 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	4.2	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-02

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 0741A SAS No.: _____ SDG No.: A0741

Matrix (soil/water): WATER Lab Sample ID: F010741A-02

Level (low/med): LOW Date Received: 04/03/01

% 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	4.2	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

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-06

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 0741A SAS No.: _____ SDG No.: A0741

Matrix (soil/water): WATER Lab Sample ID: F010741A-05

Level (low/med): LOW Date Received: 04/03/01

% 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	4.2	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-07

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 0741A SAS No.: _____ SDG No.: A0741

Matrix (soil/water): WATER Lab Sample ID: F010741A-06

Level (low/med): LOW Date Received: 04/03/01

% 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	4.2	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-10

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 0741A SAS No.: _____ SDG No.: A0741

Matrix (soil/water): WATER Lab Sample ID: F010741A-07

Level (low/med): LOW Date Received: 04/03/01

% 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	4.2	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-01

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 0741A SAS No.: _____ SDG No.: A0741

Matrix (soil/water): WATER Lab Sample ID: T010741A-01

Level (low/med): LOW Date Received: 04/03/01

% 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	2.4	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	6.5	B		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	9.4			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: CLOUDY Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Total Metals

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-02

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 0741A SAS No.: _____ SDG No.: A0741

Matrix (soil/water): WATER Lab Sample ID: T010741A-02

Level (low/med): LOW Date Received: 04/03/01

% 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	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	1.8	B		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2.9	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: CLOUDY 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.: 0741A SAS No.: _____ SDG No.: A0741

Matrix (soil/water): WATER Lab Sample ID: T010741A-03

Level (low/med): LOW Date Received: 04/03/01

% 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	76.3			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	11.2			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	12.4			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: CLOUDY 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.: 0741A SAS No.: _____ SDG No.: A0741

Matrix (soil/water): WATER Lab Sample ID: T010741A-04

Level (low/med): LOW Date Received: 04/03/01

% 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	2.4	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	10.3			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	20.9			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: CLOUDY 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.: 0741A SAS No.: _____ SDG No.: A0741

Matrix (soil/water): WATER Lab Sample ID: T010741A-05

Level (low/med): LOW Date Received: 04/03/01

% 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	6.0	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	17.6			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	27.5			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: BROWN Clarity Before: CLOUDY 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.: 0741A SAS No.: _____ SDG No.: A0741

Matrix (soil/water): WATER Lab Sample ID: T010741A-06

Level (low/med): LOW Date Received: 04/03/01

% 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	2.4	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	6.4	B		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	7.0			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: CLOUDY Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Total Metals

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-10

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 0741A SAS No.: _____ SDG No.: A0741

Matrix (soil/water): WATER Lab Sample ID: T010741A-07

Level (low/med): LOW Date Received: 04/03/01

% 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	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	6.2	B		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	7.7			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: CLOUDY Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Total Metals

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-04

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 0741A SAS No.: _____ SDG No.: A0741

Matrix (soil/water): WATER Lab Sample ID: T010741A-08

Level (low/med): LOW Date Received: 04/03/01

% 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	255.			P
7440-36-0	Antimony	1.5	U		P
7440-38-2	Arsenic	6.0	B		P
7440-39-3	Barium	25.0	B		P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.49	B		P
7440-70-2	Calcium	25900			P
7440-47-3	Chromium	4.1	B		P
7440-48-4	Cobalt	1.2	B		P
7440-50-8	Copper	13.6	B		P
7439-89-6	Iron	881.			P
7439-92-1	Lead	6.0			P
7439-95-4	Magnesium	3720.	B		P
7439-96-5	Manganese	163.			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	3.3	B		P
7440-09-7	Potassium	5100			P
7782-49-2	Selenium	3.0	B		P
7440-22-4	Silver	0.40	U		P
7440-23-5	Sodium	57900			P
7440-28-0	Thallium	8.2	U		P
7440-62-2	Vanadium	0.87	B		P
7440-66-6	Zinc	193.			P
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLOUDY Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
Total Metals

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-04

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 0741A SAS No.: _____ SDG No.: A0741

Matrix (soil/water): WATER Lab Sample ID: F010741A-08

Level (low/med): LOW Date Received: 04/03/01

% 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	7.1	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

0039

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-09

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 0741A SAS No.: _____ SDG No.: A0741

Matrix (soil/water): WATER Lab Sample ID: T010741A-09

Level (low/med): LOW Date Received: 04/03/01

% 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	364.			P
7440-36-0	Antimony	1.5	U		P
7440-38-2	Arsenic	7.2	B		P
7440-39-3	Barium	28.5	B		P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	25500			P
7440-47-3	Chromium	3.3	B		P
7440-48-4	Cobalt	1.2	B		P
7440-50-8	Copper	12.4	B		P
7439-89-6	Iron	1180			P
7439-92-1	Lead	3.3			P
7439-95-4	Magnesium	4060	B		P
7439-96-5	Manganese	170.			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	2.2	B		P
7440-09-7	Potassium	5120			P
7782-49-2	Selenium	2.7	B		P
7440-22-4	Silver	0.51	B		P
7440-23-5	Sodium	63400			P
7440-28-0	Thallium	8.2	U		P
7440-62-2	Vanadium	1.3	B		P
7440-66-6	Zinc	202.			P
57-12-5	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLOUDY Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:

Total Metals

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SW-09

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 0741A SAS No.: _____ SDG No.: A0741

Matrix (soil/water): WATER Lab Sample ID: F010741A-09

Level (low/med): LOW Date Received: 04/03/01

% 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	4.2	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.

FIELD BLANK

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 0741A SAS No.: _____ SDG No.: A0741

Matrix (soil/water): WATER Lab Sample ID: T010741A-10

Level (low/med): LOW Date Received: 04/03/01

% 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	41.7	B		P
7440-36-0	Antimony	1.5	U		P
7440-38-2	Arsenic	2.4	U		P
7440-39-3	Barium	8.9	B		P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	14800			P
7440-47-3	Chromium	0.98	B		P
7440-48-4	Cobalt	0.50	U		P
7440-50-8	Copper	3.9	B		P
7439-89-6	Iron	216.			P
7439-92-1	Lead	2.2	U		P
7439-95-4	Magnesium	2510	B		P
7439-96-5	Manganese	35.6			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	1.0	U		P
7440-09-7	Potassium	1560	B		P
7782-49-2	Selenium	2.6	U		P
7440-22-4	Silver	0.40	U		P
7440-23-5	Sodium	23000			P
7440-28-0	Thallium	8.2	U		P
7440-62-2	Vanadium	0.44	B		P
7440-66-6	Zinc	53.8			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.

FIELD BLANK

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 0741A SAS No.: _____ SDG No.: A0741

Matrix (soil/water): WATER Lab Sample ID: F010741A-10

Level (low/med): LOW Date Received: 04/03/01

% 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	4.2	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

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A0741

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	11103.65	100.9	5500.0	5590.46	101.6	5514.43	100.3	P
Antimony	1000.0	1008.26	100.8	500.0	504.29	100.8	512.31	102.5	P
Arsenic	1000.0	997.51	99.8	500.0	507.61	101.5	505.07	101.0	P
Barium	1000.0	982.93	98.3	500.0	497.90	99.6	492.59	98.5	P
Beryllium	1000.0	1007.97	100.8	500.0	510.89	102.2	514.20	102.8	P
Cadmium	1000.0	1008.20	100.8	500.0	510.98	102.2	512.78	102.6	P
Calcium	27000.0	28643.83	106.1	19800.0	21130.73	106.7	21312.22	107.6	P
Chromium	1000.0	993.58	99.4	500.0	503.97	100.8	507.92	101.6	P
Cobalt	1000.0	1006.46	100.6	500.0	510.25	102.0	514.28	102.8	P
Copper	1000.0	1002.11	100.2	500.0	501.74	100.3	500.52	100.1	P
Iron	11000.0	11236.72	102.2	5500.0	5805.04	105.5	5807.29	105.6	P
Lead	1000.0	1026.23	102.6	500.0	517.77	103.6	521.89	104.4	P
Magnesium	27000.0	26942.05	99.8	19800.0	19705.43	99.5	19883.99	100.4	P
Manganese	1000.0	988.44	98.8	500.0	502.19	100.4	506.35	101.3	P
Mercury	5.0	5.09	101.8	5.0	5.17	103.4	5.40	108.0	CV
Nickel	1000.0	985.58	98.6	500.0	499.58	99.9	502.01	100.4	P
Potassium	20000.0	20310.38	101.6	10000.0	9709.81	97.1	9792.39	97.9	P
Selenium	1000.0	1022.11	102.2	500.0	513.69	102.7	515.92	103.2	P
Silver	100.0	100.95	101.0	50.0	50.80	101.6	50.87	101.8	P
Sodium	27000.0	26313.24	97.4	19800.0	20519.99	103.6	20327.97	102.7	P
Thallium	1000.0	1044.91	104.5	500.0	519.26	103.8	542.98	108.6	P
Vanadium	1000.0	1010.65	101.1	500.0	511.64	102.3	511.45	102.3	P
Zinc	1000.0	1015.20	101.5	500.0	515.04	103.0	520.08	104.0	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.: A0741

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	5559.08	101.1	5541.65	100.8	P
Antimony				500.0	507.96	101.6	510.58	102.1	P
Arsenic				500.0	509.31	101.9	509.38	101.9	P
Barium				500.0	493.59	98.7	488.85	97.8	P
Beryllium				500.0	518.62	103.7	520.04	104.0	P
Cadmium				500.0	517.41	103.5	515.24	103.0	P
Calcium				19800.0	21554.27	108.8	21735.04	109.8	P
Chromium				500.0	511.64	102.3	510.50	102.1	P
Cobalt				500.0	518.08	103.6	519.02	103.8	P
Copper				500.0	501.33	100.3	502.87	100.6	P
Iron				5500.0	5855.28	106.4	5795.73	105.4	P
Lead				500.0	525.65	105.1	527.83	105.6	P
Magnesium				19800.0	19984.04	100.9	20145.34	101.7	P
Manganese				500.0	508.87	101.8	515.25	103.0	P
Mercury				5.0	5.19	103.8	5.27	105.4	CV
Nickel				500.0	506.65	101.3	507.82	101.6	P
Potassium				10000.0	9800.53	98.0	9822.62	98.2	P
Selenium				500.0	520.96	104.2	526.64	105.3	P
Silver				50.0	50.93	101.9	50.85	101.7	P
Sodium				19800.0	20305.16	102.6	20299.33	102.5	P
Thallium				500.0	537.16	107.4	533.47	106.7	P
Vanadium				500.0	515.43	103.1	511.85	102.4	P
Zinc				500.0	527.84	105.6	526.54	105.3	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.: A0741

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	5535.60	100.6	5603.40	101.9	P
Antimony				500.0	509.93	102.0	509.15	101.8	P
Arsenic				500.0	504.51	100.9	506.66	101.3	P
Barium				500.0	483.22	96.6	483.04	96.6	P
Beryllium				500.0	515.40	103.1	516.99	103.4	P
Cadmium				500.0	511.34	102.3	511.63	102.3	P
Calcium				19800.0	21478.68	108.5	21601.16	109.1	P
Chromium				500.0	508.44	101.7	508.15	101.6	P
Cobalt				500.0	514.95	103.0	516.07	103.2	P
Copper				500.0	496.69	99.3	498.66	99.7	P
Iron				5500.0	5828.71	106.0	5874.64	106.8	P
Lead				500.0	522.50	104.5	522.85	104.6	P
Magnesium				19800.0	19967.78	100.8	20009.87	101.0	P
Manganese				500.0	511.49	102.3	510.68	102.1	P
Mercury				5.0	5.19	103.8			CV
Nickel				500.0	502.01	100.4	503.04	100.6	P
Potassium				10000.0	9847.05	98.5	9804.02	98.0	P
Selenium				500.0	515.04	103.0	516.85	103.4	P
Silver				50.0	50.72	101.4	50.43	100.9	P
Sodium				19800.0	20247.10	102.2	20265.79	102.4	P
Thallium				500.0	514.68	102.9	521.99	104.4	P
Vanadium				500.0	511.03	102.2	509.76	102.0	P
Zinc				500.0	524.75	105.0	523.44	104.7	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.: A0741

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	11033.70	100.3	5500.0	5517.07	100.3	5492.52	99.9	P
Antimony									NR
Arsenic	1000.0	1004.19	100.4	500.0	498.93	99.8	508.69	101.7	P
Barium	1000.0	1005.39	100.5	500.0	505.93	101.2	507.47	101.5	P
Beryllium	1000.0	1010.69	101.1	500.0	505.81	101.2	511.93	102.4	P
Cadmium	1000.0	1016.01	101.6	500.0	506.64	101.3	512.17	102.4	P
Calcium	27000.0	26165.49	96.9	19800.0	19068.33	96.3	19213.95	97.0	P
Chromium	1000.0	1002.52	100.2	500.0	501.06	100.2	505.03	101.0	P
Cobalt	1000.0	1012.21	101.2	500.0	504.50	100.9	506.48	101.3	P
Copper	1000.0	1039.00	103.9	500.0	516.35	103.3	517.69	103.5	P
Iron	11000.0	11291.79	102.6	5500.0	5719.64	104.0	5639.09	102.5	P
Lead	1000.0	1041.07	104.1	500.0	518.23	103.6	520.50	104.1	P
Magnesium	27000.0	26168.41	96.9	19800.0	18774.45	94.8	18949.82	95.7	P
Manganese	1000.0	1001.90	100.2	500.0	501.17	100.2	505.53	101.1	P
Mercury									NR
Nickel	1000.0	1003.88	100.4	500.0	501.73	100.3	506.56	101.3	P
Potassium									NR
Selenium	1000.0	1036.80	103.7	500.0	518.79	103.8	523.66	104.7	P
Silver	100.0	99.90	99.9	50.0	50.59	101.2	50.85	101.7	P
Sodium	27000.0	25544.42	94.6	19800.0	19523.98	98.6	19357.67	97.8	P
Thallium	1000.0	1076.46	107.6	500.0	521.52	104.3	531.79	106.4	P
Vanadium	1000.0	1024.29	102.4	500.0	512.29	102.4	514.90	103.0	P
Zinc	1000.0	1030.02	103.0	500.0	515.59	103.1	521.84	104.4	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.: A0741

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	5529.29	100.5			P
Antimony									NR
Arsenic				500.0	509.52	101.9			P
Barium				500.0	507.08	101.4			P
Beryllium				500.0	512.81	102.6			P
Cadmium				500.0	513.81	102.8			P
Calcium				19800.0	19293.80	97.4			P
Chromium				500.0	507.31	101.5			P
Cobalt				500.0	508.63	101.7			P
Copper				500.0	516.38	103.3			P
Iron				5500.0	5806.80	105.6			P
Lead				500.0	523.94	104.8			P
Magnesium				19800.0	18919.46	95.6			P
Manganese				500.0	506.92	101.4			P
Mercury									NR
Nickel				500.0	507.21	101.4			P
Potassium									NR
Selenium				500.0	529.91	106.0			P
Silver				50.0	50.77	101.6			P
Sodium				19800.0	19539.05	98.7			P
Thallium				500.0	532.51	106.5			P
Vanadium				500.0	516.29	103.2			P
Zinc				500.0	523.72	104.7			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.: A0741

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)
						DK 8/7/01		
Aluminum								
Antimony				120.0	123.52	102.9	122.07	101.7
Arsenic				20.0 ~~4.8~~	19.10	~~398.0~~	19.94	~~415.6~~
Barium						95.5		99.7
Beryllium				10.0	10.28	102.8	10.36	103.7
Cadmium				10.0	10.58	105.8	10.38	103.9
Calcium								
Chromium				20.0	20.63	103.2	21.16	105.8
Cobalt				100.0	103.03	103.0	104.57	104.6
Copper				50.0	51.07	102.2	50.05	100.1
Iron								
Lead				6.0 ~~4.4~~	5.92	~~134.6~~	5.09	~~115.8~~
Magnesium						98.7		84.8
Manganese				30.0	31.05	103.5	31.45	104.8
Mercury								
Nickel				80.0	81.94	102.4	83.54	104.4
Potassium						114.6		107.4
Selenium				10.0 ~~5.2~~	11.46	~~220.5~~	10.74	~~206.7~~
Silver				20.0	20.95	104.8	20.84	104.2
Sodium								
Thallium				20.0	21.59	108.0	18.19	91.0
Vanadium				100.0	104.26	104.3	103.85	103.8
Zinc				40.0	40.36	100.9	41.93	104.8
Cyanide								

U.S. EPA - CLP

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A0741

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	119.13	99.3	118.17	98.5
Arsenic				20.0	20.25	101.3	20.41	102.1
Barium								
Beryllium				10.0	10.04	100.4	9.91	99.1
Cadmium				10.0	9.87	98.8	9.79	97.9
Calcium								
Chromium				20.0	20.02	100.1	19.91	99.6
Cobalt				100.0	99.56	99.6	98.70	98.7
Copper				50.0	48.42	96.8	48.38	96.8
Iron								
Lead				6.0	6.13	102.3	6.91	115.3
Magnesium								
Manganese				30.0	29.82	99.4	29.48	98.3
Mercury								
Nickel				80.0	80.10	100.1	79.63	99.5
Potassium								
Selenium				10.0	9.81	98.2	7.39	74.0
Silver				20.0	19.35	96.8	19.53	97.7
Sodium								
Thallium				20.0	17.06	85.3	17.78	88.9
Vanadium				100.0	99.60	99.6	99.30	99.3
Zinc				40.0	42.88	107.2	42.76	106.9
Cyanide								

U.S. EPA - CLP

3
BLANKS

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A0741

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	9.0	U	9.0	U	9.0	U	9.0	U	9.000	U	P
Antimony	1.5	U	1.6	B	1.5	U	1.5	U	1.500	U	P
Arsenic	2.4	U	2.4	U	2.4	U	2.4	U	2.400	U	P
Barium	0.1	B	0.1	U	0.1	U	0.1	B	0.100	U	P
Beryllium	0.1	U	0.1	U	0.1	U	0.1	U	0.100	U	P
Cadmium	0.3	U	0.3	U	0.3	U	0.3	U	0.300	U	P
Calcium	45.5	B	22.8	B	7.0	U	7.0	U	7.000	U	P
Chromium	0.5	U	0.5	U	0.5	U	0.5	U	1.413	B	P
Cobalt	0.6	B	0.5	B	0.5	U	0.5	U	0.500	U	P
Copper	0.5	U	0.5	U	0.5	U	-0.8	B	0.500	U	P
Iron	9.0	U	9.0	U	9.0	U	9.0	U	273.714		P
Lead	2.2	U	2.2	U	2.2	U	2.2	U	2.200	U	P
Magnesium	6.0	U	11.9	B	6.0	U	6.0	U	6.000	U	P
Manganese	0.1	B	0.1	U	0.1	U	0.1	U	3.078	B	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	32.0	U	32.0	U	39.6	B	42.0	B	32.000	U	P
Selenium	2.6	U	2.6	U	2.6	U	2.6	U	2.600	U	P
Silver	0.4	U	0.4	U	0.4	U	0.4	U	0.400	U	P
Sodium	7.2	B	7.0	U	7.0	U	8.9	B	7.000	U	P
Thallium	8.2	U	8.2	U	9.0	B	8.2	U	8.200	U	P
Vanadium	0.4	U	0.4	U	0.4	U	0.4	U	0.400	U	P
Zinc	9.8	B	1.6	B	0.8	U	-0.8	B	0.800	U	P
Cyanide											NR

U.S. EPA - CLP

3
BLANKS

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A0741

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			9.0	U	9.0	U	26.0	B			P
Antimony			1.5	B	1.7	B	1.9	B			P
Arsenic			2.4	U	2.4	U	2.4	U			P
Barium			0.2	B	0.1	U	0.1	U			P
Beryllium			0.1	U	0.1	U	0.1	U			P
Cadmium			0.3	U	0.3	U	0.3	U			P
Calcium			7.0	U	7.0	U	7.7	B			P
Chromium			0.5	U	0.5	U	0.5	U			P
Cobalt			0.7	B	0.5	U	0.5	U			P
Copper			-1.1	B	-0.5	B	-1.1	B			P
Iron			9.0	U	9.0	U	9.0	U			P
Lead			2.2	U	2.2	U	2.2	U			P
Magnesium			6.0	U	6.0	U	14.9	B			P
Manganese			0.4	B	0.1	U	0.1	U			P
Mercury			0.1	U	0.1	U					CV
Nickel			1.0	U	1.0	U	1.0	U			P
Potassium			52.4	B	60.6	B	50.1	B			P
Selenium			2.6	U	2.6	U	2.6	U			P
Silver			0.4	U	0.4	U	0.4	U			P
Sodium			7.0	U	7.0	U	7.0	U			P
Thallium			8.2	U	8.2	U	8.2	U			P
Vanadium			0.4	U	0.4	U	0.4	U			P
Zinc			-0.9	B	0.8	U	-0.8	B			P
Cyanide											NR

U.S. EPA - CLP

3
BLANKS

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A0741

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	20.5	U	20.5	U	20.5	U	20.5	U			P
Antimony	4.4	U	4.4	U	4.4	U	4.4	U			P
Arsenic	4.2	U	4.2	U	4.2	U	4.2	U			P
Barium	0.4	U	0.4	U	0.4	U	0.4	U			P
Beryllium	0.5	U	0.5	U	0.5	U	0.5	U			P
Cadmium	0.9	U	0.9	U	0.9	U	0.9	U			P
Calcium	12.3	U	12.3	U	12.3	U	12.3	U			P
Chromium	0.8	U	0.8	U	0.8	U	0.8	U			P
Cobalt	1.6	U	1.6	U	1.6	U	1.6	U			P
Copper	1.6	U	1.6	U	1.6	U	1.6	U			P
Iron	20.5	U	20.5	U	20.5	U	20.5	U			P
Lead	2.0	U	2.0	U	2.0	U	2.0	U			P
Magnesium	9.9	U	9.9	U	9.9	U	10.4	B			P
Manganese	1.0	U	1.0	U	1.0	U	1.0	U			P
Mercury											NR
Nickel	1.3	U	1.3	U	1.3	U	1.3	U			P
Potassium	116.2	U	116.2	U	116.2	U	116.2	U			P
Selenium	4.9	U	4.9	U	4.9	U	4.9	U			P
Silver	1.0	U	1.0	U	1.0	U	1.0	U			P
Sodium	19.8	U	19.8	U	25.9	B	19.8	U			P
Thallium	9.1	U	9.1	U	9.1	U	9.1	U			P
Vanadium	1.0	U	1.0	U	1.0	U	1.0	U			P
Zinc	5.0	U	5.0	U	5.0	U	5.0	U			P
Cyanide											NR

U.S. EPA - CLP

4
ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A0741

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	499450	498943.5	99.7	499681	499528.4	99.9
Antimony		600	-3	602.1	100.3	1	598.1	99.6
Arsenic		100	6	101.3	101.3	2	103.7	103.7
Barium		500	2	472.6	94.5	2	459.2	91.8
Beryllium		500	0	460.9	92.1	0	473.1	94.6
Cadmium		1000	3	915.0	91.5	1	925.0	92.5
Calcium	500000	500000	464533	465608.1	93.1	479084	483009.0	96.6
Chromium		500	1	450.1	90.0	1	459.5	91.9
Cobalt		500	0	463.0	92.6	0	475.0	95.0
Copper		500	0	524.5	104.9	-1	520.3	104.0
Iron	200000	200000	178655	179639.6	89.8	182603	183900.4	91.9
Lead		50	3	47.8	95.6	4	52.2	104.4
Magnesium	500000	500000	483860	483100.8	96.6	494826	496033.7	99.2
Manganese		500	-5	444.4	88.8	-5	457.2	91.4
Mercury								
Nickel		1000	-1	908.4	90.8	-1	925.0	92.5
Potassium			-15	-20.8		2	25.6	
Selenium		50	-4	47.5	95.1	0	47.8	95.7
Silver		200	-1	206.1	103.0	-1	205.2	102.6
Sodium			48	44.1		43	41.2	
Thallium		100	-3	98.3	98.3	1	106.3	106.3
Vanadium		500	0	461.9	92.3	0	463.3	92.6
Zinc		1000	-5	900.6	90.0	-4	931.4	93.1
Cyanide								

U.S. EPA - CLP

4
ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A0741

ID Number: JA61E 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	491591	494031.6	98.8	494382	491950.9	98.3
Antimony		600	4	562.9	93.8	2	572.6	95.4
Arsenic		100	3	96.8	96.8	5	98.3	98.3
Barium		500	2	487.9	97.5	2	490.2	98.0
Beryllium		500	0	446.3	89.2	0	444.6	88.9
Cadmium		1000	7	905.2	90.5	8	905.2	90.5
Calcium	500000	500000	422704	423764.5	84.7	420642	417950.4	83.5
Chromium		500	1	452.9	90.5	1	448.4	89.6
Cobalt		500	-3	462.6	92.5	-3	458.8	91.7
Copper		500	0	571.9	114.3	1	575.2	115.0
Iron	200000	200000	183583	183767.3	91.8	182660	183267.9	91.6
Lead		50	2	50.9	101.9	2	51.2	102.5
Magnesium	500000	500000	487672	487569.7	97.5	487653	485690.8	97.1
Manganese		500	-2	454.5	90.9	-2	452.1	90.4
Mercury								
Nickel		1000	2	952.3	95.2	2	953.6	95.3
Potassium			-91	-68.6		-136	-159.5	
Selenium		50	-11	38.9	77.8	-6	42.2	84.4
Silver		200	0	207.1	103.5	0	206.3	103.1
Sodium			38	39.7		52	53.4	
Thallium		100	-17	86.3	86.3	-6	90.3	90.3
Vanadium		500	-1	471.0	94.2	-1	468.7	93.7
Zinc		1000	14	974.6	97.4	12	972.7	97.2
Cyanide								

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

SW-04S

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 0741A SAS No.: _____ SDG No.: A0741

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	2141.8300		254.9446		2000.00	94.3		P
Antimony	75-125	473.7112		1.5000	U	500.00	94.7		P
Arsenic	75-125	44.1965		5.9989	B	40.00	95.5		P
Barium	75-125	1790.1370		24.9634	B	2000.00	88.2		P
Beryllium	75-125	49.0966		0.1000	U	50.00	98.2		P
Cadmium	75-125	5.4682		0.4868	B	5.00	99.6		P
Calcium				25862.0100		0.00	0.0		P
Chromium	75-125	188.5175		4.1105	B	200.00	92.2		P
Cobalt	75-125	469.8055		1.2009	B	500.00	93.7		P
Copper	75-125	241.5691		13.6082	B	250.00	91.2		P
Iron	75-125	1811.7240		880.6781		1000.00	93.1		P
Lead	75-125	25.4202		6.0231		20.00	97.0		P
Magnesium				3716.8910	B	0.00	0.0		P
Manganese	75-125	613.6934		163.4661		500.00	90.0		P
Mercury									NR
Nickel	75-125	468.2933		3.3201	B	500.00	93.0		P
Potassium				5104.4220		0.00	0.0		P
Selenium	75-125	12.5871		3.0011	B	10.00	95.9		P
Silver	75-125	46.7247		0.4000	U	50.00	93.4		P
Sodium				57872.1900		0.00	0.0		P
Thallium	75-125	40.4131		8.2000	U	50.00	80.8		P
Vanadium	75-125	459.2824		0.8744	B	500.00	91.7		P
Zinc	75-125	670.3295		193.2575		500.00	95.4		P
Cyanide									NR

Comments:

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

FIELD BLANKS

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 0741A SAS No.: _____ SDG No.: A0741

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	0.9850		0.1000	U	1.00	98.5		CV
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

Comments:

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6
DUPLICATES

EPA SAMPLE NO.

SW-04D

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 0741A SAS No.: _____ SDG No.: A0741

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	.0	254.9446		237.5924		7.0		P
Antimony		1.5000	U	1.5000	U			P
Arsenic		5.9989	B	4.0823	B	38.0		P
Barium		24.9634	B	23.7300	B	5.1		P
Beryllium		0.1000	U	0.1000	U			P
Cadmium		0.4868	B	0.5951	B	20.0		P
Calcium	.0	25862.0100		24589.1900		5.0		P
Chromium		4.1105	B	4.2348	B	3.0		P
Cobalt		1.2009	B	1.4840	B	21.1		P
Copper		13.6082	B	12.4020	B	9.3		P
Iron		880.6781		844.4613		4.2		P
Lead	.0	6.0231		4.7763		23.1		P
Magnesium		3716.8910	B	3519.9350	B	5.4		P
Manganese		163.4661		157.0143		4.0		P
Mercury								NR
Nickel		3.3201	B	2.6761	B	21.5		P
Potassium	.0	5104.4220		4727.6160	B	7.7		P
Selenium		3.0011	B	2.6000	U	200.0		P
Silver		0.4000	U	0.4000	U			P
Sodium		57872.1900		55151.0400		4.8		P
Thallium		8.2000	U	8.2000	U			P
Vanadium		0.8744	B	1.0499	B	18.2		P
Zinc		193.2575		184.7510		4.5		P
Cyanide								NR

Total Metals

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6
DUPLICATES

EPA SAMPLE NO.

FIELD BLANKD

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 0741A SAS No.: _____ SDG No.: A0741

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

U.S. EPA - CLP

7
LABORATORY CONTROL SAMPLE

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A0741

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	2985.49	99.5						
Antimony	1000.0	1034.40	103.4						
Arsenic	1000.0	1004.60	100.5						
Barium	300.0	304.60	101.5						
Beryllium	100.0	108.13	108.1						
Cadmium	300.0	304.17	101.4						
Calcium	15000.0	16314.11	108.8						
Chromium	300.0	305.03	101.7						
Cobalt	300.0	307.57	102.5						
Copper	300.0	305.37	101.8						
Iron	12500.0	12987.08	103.9						
Lead	1000.0	1028.11	102.8						
Magnesium	7500.0	7655.02	102.1						
Manganese	200.0	202.58	101.3						
Mercury	5.0	5.32	106.4						
Nickel	300.0	306.19	102.1						
Potassium	20000.0	21474.52	107.4						
Selenium	500.0	519.54	103.9						
Silver	300.0	306.78	102.3						
Sodium	2500.0	2617.24	104.7						
Thallium	1000.0	946.34	94.6						
Vanadium	300.0	307.32	102.4						
Zinc	300.0	309.97	103.3						
Cyanide									

Total Metals

U.S. EPA - CLP

8
STANDARD ADDITION RESULTS

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A0741

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-04L

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 0741A SAS No.: _____ SDG No.: A0741

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	254.94		278.84	B	9.4		P
Antimony	1.50	U	7.50	U			P
Arsenic	6.00	B	12.00	U	100.0		P
Barium	24.96	B	26.67	B	6.8		P
Beryllium	0.10	U	0.50	U			P
Cadmium	0.49	B	1.50	U	100.0		P
Calcium	25862.01		25663.86		0.8		P
Chromium	4.11	B	11.65	B	183.4		P
Cobalt	1.20	B	2.99	B	148.9		P
Copper	13.61	B	9.37	B	31.1		P
Iron	880.68		2122.48		141.0		P
Lead	6.02		11.00	U	100.0		P
Magnesium	3716.89	B	3711.25	B	0.2		P
Manganese	163.47		178.84		9.4		P
Mercury							NR
Nickel	3.32	B	5.00	U	100.0		P
Potassium	5104.42		4082.59	B	20.0		P
Selenium	3.00	B	16.16	B	438.5		P
Silver	0.40	U	2.00	U			P
Sodium	57872.19		56857.60		1.8		P
Thallium	8.20	U	41.00	U			P
Vanadium	0.87	B	2.00	U	100.0		P
Zinc	193.26		205.10		6.1		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.: A0741

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:

10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A0741

ICP ID Number: JA61E 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	20.5	P
Antimony	206.83		60.0	4.4	P
Arsenic	193.60		10.0	4.2	P
Barium	493.40		200.0	.4	P
Beryllium	234.86		5.0	.5	P
Cadmium	228.80		5.0	.9	P
Calcium	317.93		5000.0	12.3	P
Chromium	267.70		10.0	.8	P
Cobalt	228.61		50.0	1.6	P
Copper	324.75		25.0	1.6	P
Iron	271.44		100.0	20.5	P
Lead	220.35		3.0	2.0	P
Magnesium	279.07		5000.0	9.9	P
Manganese	257.61		15.0	1.0	P
Mercury			.2		
Nickel	231.60		40.0	1.3	P
Potassium	766.49		5000.0	116.2	P
Selenium	196.02		5.0	4.9	P
Silver	328.06		10.0	1.0	P
Sodium	589.59		5000.0	19.8	P
Thallium	189.90		10.0	9.1	P
Vanadium	292.40		50.0	1.0	P
Zinc	213.85		20.0	5.0	P

Comments:

10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A0741

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:

11A
ICP Interelement correction Factors (Annually)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A0741

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:

11B
ICP Interelement correction Factors (Annually)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A0741

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:

11B
ICP Interelement correction Factors (Annually)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A0741

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:

11B
ICP Interelement correction Factors (Annually)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A0741

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.: A0741

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.: A0741

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:

11B
ICP Interelement correction Factors (Annually)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A0741

ICP ID Number: JA61E 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.: A0741

ICP ID Number: JA61E 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:

11B
ICP Interelement correction Factors (Annually)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A0741

ICP ID Number: JA61E 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:

11B
ICP Interelement correction Factors (Annually)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A0741

ICP ID Number: JA61E 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:

11B
ICP Interelement correction Factors (Annually)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A0741

ICP ID Number: JA61E 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:

11B
ICP Interelement correction Factors (Annually)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A0741

ICP ID Number: JA61E 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:

12
ICP Linear Ranges (Quarterly)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A0741

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:

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ICP Linear Ranges (Quarterly)

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A0741

ICP ID Number: JA61E 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:

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PREPARATION LOG

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 0741A SAS No.: _____ SDG No.: A0741

Method: P

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSW1	04/11/01		100
PBW1	04/11/01		100
T010741A-01	04/11/01	100.00	100
T010741A-02	04/11/01	100.00	100
T010741A-03	04/11/01	100.00	100
T010741A-04	04/11/01	100.00	100
T010741A-05	04/11/01	100.00	100
T010741A-06	04/11/01	100.00	100
T010741A-07	04/11/01	100.00	100
T010741A-08	04/11/01	100.00	100
T010741A-08D	04/11/01	100.00	100
T010741A-08S	04/11/01	100.00	100
T010741A-08SD	04/11/01	100.00	100
T010741A-09	04/11/01	100.00	100
T010741A-10	04/11/01	100.00	100

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PREPARATION LOG

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 0741A SAS No.: _____ SDG No.: A0741

Method: CV

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
010741A-01	04/10/01	25.00	25
010741A-02	04/10/01	25.00	25
010741A-03	04/10/01	25.00	25
010741A-04	04/10/01	25.00	25
010741A-05	04/10/01	25.00	25
010741A-06	04/10/01	25.00	25
010741A-07	04/10/01	25.00	25
010741A-08	04/10/01	25.00	25
010741A-09	04/10/01	25.00	25
010741A-10	04/10/01	25.00	25
010741A-10D	04/10/01	25.00	25
010741A-10S	04/10/01	25.00	25
LCSW1	04/10/01		25
LCSW2	04/10/01		25
LCSW3	04/10/01		25
LCSW4	04/10/01		25
PBW1	04/10/01		25
PBW2	04/10/01		25
PBW3	04/10/01		25
PBW4	04/10/01		25

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PREPARATION LOG

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 0741A SAS No.: _____ SDG No.: A0741

Method: P

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
F010741A-01	04/17/01	100.00	100
F010741A-02	04/17/01	100.00	100
F010741A-05	04/17/01	100.00	100
F010741A-06	04/17/01	100.00	100
F010741A-07	04/17/01	100.00	100
F010741A-08	04/17/01	100.00	100
F010741A-09	04/17/01	100.00	100
F010741A-10	04/17/01	100.00	100

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ANALYSIS RUN LOG

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A0741

Instrument ID Number: JA61 Method: P

Start Date: 04/12/01 End Date: 04/12/01

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	1049																									
S7	1.00	1055																									
S8	1.00	1101																									
S4	1.00	1107																									
S9	1.00	1110																									
S6	1.00	1114																									
S5	1.00	1118																									
S3	1.00	1121																									
ICV1	1.00	1122		X		X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	X	X	X	
ICV1	1.00	1122		X		X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	X	X	X	
ICV1	1.00	1128			X															X							
ICV1	1.00	1128			X															X							
ICV1	1.00	1128			X															X							
ICB1	1.00	1134		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICB3	1.00	1134																									
ZZZZZZ	1.00	1140																									
CRI1	1.00	1146			X	X		X	X		X	X	X		X		X		X		X	X		X	X	X	
CRI3	1.00	1146																									
CRII	1.00	1146			X	X		X	X		X	X	X		X		X		X		X	X		X	X	X	
ICSAI	1.00	1152																									
ICSABI	1.00	1158																									
CCV1	1.00	1204		X		X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	X	X	X	
CCV5	1.00	1204		X		X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	X	X	X	
CCV1	1.00	1210			X															X							
CCV1A	1.00	1210			X															X							
CCV5	1.00	1210			X															X							
CCB1	1.00	1216		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB7	1.00	1216																									
ZZZZZZ	1.00	1222																									
ZZZZZZ	1.00	1228																									
ZZZZZZ	1.00	1234																									
ZZZZZZ	1.00	1240																									
ZZZZZZ	1.00	1246																									

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ANALYSIS RUN LOG

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A0741

Instrument ID Number: JA61 Method: P

Start Date: 04/12/01 End Date: 04/12/01

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	1252																									
ZZZZZZ	1.00	1258																									
ZZZZZZ	1.00	1304																									
PBW1	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	
LCSW1	1.00	1317		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV2	1.00	1323		X		X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	X	X	X	
CCV6	1.00	1323		X		X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	X	X	X	
CCV2	1.00	1329			X															X							
CCV2A	1.00	1329			X															X							
CCV6	1.00	1329			X															X							
CCB2	1.00	1335		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB8	1.00	1335																									
T010741A-01	1.00	1341				X					X				X												
T010741A-02	1.00	1347				X					X				X												
T010741A-03	1.00	1353				X					X				X												
T010741A-04	1.00	1359				X					X				X												
T010741A-05	1.00	1405				X					X				X												
T010741A-06	1.00	1411				X					X				X												
T010741A-07	1.00	1417				X					X				X												
T010741A-08	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	
T010741A-08D	1.00	1429		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
T010741A-08S	1.00	1435		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	1441		X		X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	X	X	X	
CCV7	1.00	1441																									
CCV3	1.00	1447			X															X							
CCV3A	1.00	1447			X															X							
CCV7	1.00	1447			X															X							
CCB3	1.00	1453		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB9	1.00	1453																									
T010741A-08S	1.00	1500																									
T010741A-08A	1.00	1506																									
T010741A-08L	5.00	1512		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
T010741A-09	1.00	1518		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.: A0741

Instrument ID Number: JA61 Method: P

Start Date: 04/12/01 End Date: 04/12/01

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
T010741A-10	1.00	1524		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	1530																									
ZZZZZZ	1.00	1530																									
ZZZZZZ	1.00	1536																									
ZZZZZZ	1.00	1542																									
ZZZZZZ	1.00	1548																									
ZZZZZZ	1.00	1554																									
CCV4	1.00	1600		X		X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	X	X	X	
CCV8	1.00	1600																									
CCV4	1.00	1606			X															X							
CCV4A	1.00	1606			X															X							
CCV8	1.00	1606			X															X							
CCB10	1.00	1612		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	1612		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	1618																									
ZZZZZZ	1.00	1624																									
ZZZZZZ	1.00	1630																									
ZZZZZZ	1.00	1637																									
ZZZZZZ	5.00	1643																									
ZZZZZZ	1.00	1649																									
ZZZZZZ	1.00	1655																									
ZZZZZZ	1.00	1701																									
ZZZZZZ	1.00	1707																									
ZZZZZZ	1.00	1713																									
CCV5	1.00	1719		X		X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	X	X	X	
CCV9	1.00	1719																									
CCV5	1.00	1725			X															X							
CCV5A	1.00	1725			X															X							
CCV9	1.00	1725			X															X							
CCB11	1.00	1731		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	1731		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	1737																									
ZZZZZZ	1.00	1743																									

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ANALYSIS RUN LOG

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A0741

Instrument ID Number: JA61 Method: P

Start Date: 04/12/01 End Date: 04/12/01

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
CRI2	1.00	1749			X	X		X	X		X	X	X		X		X		X		X	X		X	X	X	
CRI4	1.00	1749																									
CRIF	1.00	1749			X	X		X	X		X	X	X		X		X		X		X	X		X	X	X	
ICSAF	1.00	1755																									
ICSABF	1.00	1801																									
CCV10	1.00	1807		X		X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	X	X	X	
CCV6	1.00	1807		X		X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	X	X	X	
CCV10	1.00	1814			X															X							
CCV6	1.00	1814			X															X							
CCV6A	1.00	1814			X															X							
CCB12	1.00	1820		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB6	1.00	1820		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.: A0741

Instrument ID Number: JA61E Method: P

Start Date: 04/17/01 End Date: 04/17/01

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	1302		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	1308			X	X	X	X	X		X	X	X		X		X		X	X	X	X		X	X	X	
S8	1.00	1314			X	X	X	X	X		X	X	X		X		X		X	X	X	X		X	X	X	
S4	1.00	1320		X		X	X	X	X		X	X	X		X		X		X		X	X		X	X	X	
S9	1.00	1324		X						X				X		X							X				
S6	1.00	1329		X						X				X		X							X				
S5	1.00	1332			X															X							
S3	1.00	1337								X				X		X							X				
ICV1	1.00	1337		X		X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	X	X	X	
ICB3	1.00	1343		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	1349																									
CRI3	1.00	1355			X	X		X	X		X	X	X		X		X		X		X	X		X	X	X	
ICSAI	1.00	1401		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	1407		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV7	1.00	1413		X		X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	X	X	X	
CCB7	1.00	1419		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
F010741A-01	1.00	1425				X																					
F010741A-02	1.00	1431				X																					
F010741A-05	1.00	1437				X																					
F010741A-06	1.00	1443				X																					
F010741A-07	1.00	1449				X																					
F010741A-08	1.00	1455				X																					
F010741A-09	1.00	1501				X																					
F010741A-10	1.00	1507				X																					
ZZZZZZ	1.00	1513																									
ZZZZZZ	1.00	1519																									
CCV8	1.00	1525		X		X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	X	X	X	
CCB8	1.00	1531		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	1537																									
ZZZZZZ	1.00	1543																									
ZZZZZZ	1.00	1549																									
ZZZZZZ	1.00	1555																									
ZZZZZZ	5.00	1601																									

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ANALYSIS RUN LOG

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A0741

Instrument ID Number: JA61E Method: P

Start Date: 04/17/01 End Date: 04/17/01

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	1607																									
ZZZZZZ	1.00	1613																									
CRI4	1.00	1619			X	X		X	X		X	X	X		X		X		X		X	X		X	X	X	
ICSAF	1.00	1625		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	1631		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV9	1.00	1637		X		X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	X	X	X	
CCB9	1.00	1643		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

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A0741

Instrument ID Number: HG4 Method: CV

Start Date: 04/11/01 End Date: 04/11/01

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	1122																X									
S0	1.00	1123																X									
S1	1.00	1125																X									
S2	1.00	1127																X									
S5	1.00	1129																X									
S1	1.00	1131																X									
ICV1	1.00	1134																X									
ICV1	1.00	1134																X									
ICV1	1.00	1134																X									
ICB1	1.00	1136																X									
ICB3	1.00	1136																X									
ICB5	1.00	1136																X									
CCV1	1.00	1137																X									
CCV11	1.00	1137																X									
CCV7	1.00	1137																X									
CCB1	1.00	1139																X									
CCB13	1.00	1139																X									
CCB7	1.00	1139																X									
PBW1	1.00	1141																X									
PBW2	1.00	1141																X									
LCSW1	1.00	1143																X									
LCSW2	1.00	1143																X									
ZZZZZZ	1.00	1145																									
ZZZZZZ	1.00	1146																									
ZZZZZZ	1.00	1148																									
ZZZZZZ	1.00	1150																									
ZZZZZZ	1.00	1151																									
ZZZZZZ	1.00	1153																									
ZZZZZZ	1.00	1154																									
ZZZZZZ	1.00	1156																									
CCV12	1.00	1158																X									
CCV2	1.00	1158																X									
CCV8	1.00	1158																X									

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ANALYSIS RUN LOG

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A0741

Instrument ID Number: HG4 Method: CV

Start Date: 04/11/01 End Date: 04/11/01

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
CCB14	1.00	1200																X									
CCB2	1.00	1200																X									
CCB8	1.00	1200																X									
ZZZZZZ	1.00	1201																									
ZZZZZZ	1.00	1203																									
ZZZZZZ	1.00	1205																									
ZZZZZZ	1.00	1207																									
ZZZZZZ	1.00	1208																									
ZZZZZZ	10.0	1210																									
ZZZZZZ	10.0	1212																									
T010741A-01	1.00	1213																X									
T010741A-02	1.00	1215																X									
T010741A-03	1.00	1216																X									
CCV3	1.00	1218																X									
CCB3	1.00	1220																X									
T010741A-04	1.00	1222																X									
T010741A-05	1.00	1223																X									
T010741A-06	1.00	1225																X									
T010741A-07	1.00	1227																X									
T010741A-08	1.00	1228																X									
ZZZZZZ	1.00	1230																									
ZZZZZZ	1.00	1232																									
T010741A-09	1.00	1234																X									
T010741A-10	1.00	1235																X									
010741A-10D	1.00	1237																X									
T010741A-10D	1.00	1237																X									
CCV4	1.00	1239																X									
CCB4	1.00	1241																X									
010741A-10S	1.00	1242																X									
T010741A-10S	1.00	1242																X									
ZZZZZZ	1.00	1244																									
ZZZZZZ	1.00	1246																									
ZZZZZZ	1.00	1248																									

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14
ANALYSIS RUN LOG

Lab Name: STL Contract: _____

Lab Code: STL Case No.: _____ SAS No.: _____ SDG No.: A0741

Instrument ID Number: HG4 Method: CV

Start Date: 04/11/01 End Date: 04/11/01

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	1250																									
ZZZZZZ	1.00	1252																									
ZZZZZZ	1.00	1256																									
ZZZZZZ	1.00	1258																									
ZZZZZZ	1.00	1300																									
CCV5	1.00	1301																X									
CCV5	1.00	1301																X									
CCB5	1.00	1304																X									
CCB5	1.00	1304																X									

COVER PAGE - WET CHEM ANALYSES DATA PACKAGE

Lab Name: STL Contract:

Lab Code: STL Case No.: 0741A SAS No.: SDG No.: A0741

SOW No.:

Sample No.	Lab Sample ID
SW-01	010741A-01
SW-02	010741A-02
SW-03	010741A-03
SW-05	010741A-04
SW-06	010741A-05
SW-07	010741A-06
SW-10	010741A-07
SW-04	010741A-08
SW-09	010741A-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. Helfrich

Date: 4/10/01 Title: Group Leader

WET CHEM ANALYSIS

3
BLANKS

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 0741A SAS No.: _____ SDG No.: A0741

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

5
DUPLICATES

SAMPLE NO.

SW-06

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 0741A SAS No.: _____ SDG No.: A0741

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

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Units	M
TSS	20	142		148		4.4		mg/L	G

FORM V - WC

6
LABORATORY CONTROL SAMPLE

Lab Name: STL Contract:

Lab Code: STL Case No.: 0741A SAS No.: SDG No.: A0741

Analyte	True	LCS Found	%R	units	LCS Source
TSS	108.7	104	95.7	mg/L	

FORM VI - WC

7

HOLD TIME REPORT

Lab Name: STL Contract: _____

Lab Code: STL Case No.: 0741A SAS No.: _____ SDG No.: A0741

Analyte : TSS

Client Sample ID	Date Received	Date Prepped	Date Analyzed
SW-02	04/03/01	04/05/01	04/05/01 00:00
SW-03	04/03/01	04/05/01	04/05/01 00:00
SW-05	04/03/01	04/05/01	04/05/01 00:00
SW-06	04/03/01	04/05/01	04/05/01 00:00
SW-07	04/03/01	04/05/01	04/05/01 00:00
SW-10	04/03/01	04/05/01	04/05/01 00:00
SW-04	04/03/01	04/05/01	04/05/01 00:00
SW-09	04/03/01	04/05/01	04/05/01 00:00
010741A-05D		04/05/01	04/05/01 00:00
SW-01	04/03/01	04/05/01	04/05/01 00:00