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STL Denver  
4955 Yarrow Street  
Arvada, CO 80002

Tel: 303 736 0100 Fax: 303 431 7171  
[www.stl-inc.com](http://www.stl-inc.com)

**ANALYTICAL REPORT**

URENCO Project

Lot #: D3K120128

Purchase Order 018511-0403003

John Shaw

Lockwood Greene  
1500 International Drive  
Spartanburg, SC 29304

STL DENVER



Gail DeRuzzo  
Project Manager

December 22, 2003

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## Case Narrative

Enclosed is the report for two samples received at STL's Denver laboratory on November 12, 2003. The results included in this report have been reviewed for compliance with STL Denver's Laboratory Quality Manual. The test results shown in this report meet all requirements of NELAC and any exceptions are noted below.

Dilution factors and footnotes have been provided to assist in the interpretation of the results. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interferences or analytes present at concentrations above the linear calibration curve, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

STL utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameters listed on the analytical methods summary page in accordance with the methods indicated. A summary of quality control parameters is provided below.

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## Quality Control Summary for Lot D3K120128

### Sample Receiving

- The cooler temperature upon receipt at the Denver laboratory was 3.1° C.
- All sample bottles were received in acceptable condition.

### Holding Times

- All holding times were met.

### Trip Blank

- Methylene chloride was detected in the Trip Blank below the reporting limit. The detection in the associated sample may be due to laboratory or field contamination.

### Method Blanks

- The analytes Barium, Boron, and Silver Method 6010B were detected in the Method Blanks below the established reporting limits. No corrective action is taken for any values in Method Blanks that are below the requested reporting limits. In addition the sample results for Barium and Boron were greater than ten times the method blank values.
- All other Method Blanks were within established control limits.

### Laboratory Control Samples

- All Laboratory Control Samples were within established control limits.

### Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

- The Matrix Spike and/or Matrix Spike Duplicate recoveries were outside control limits for Antimony and Molybdenum Method 6010B in QC batch 3317761. Because the corresponding Laboratory

Control Sample and the Method Blank sample were within control limits, these anomalies may be due to matrix interference.

- Due to the result concentration exceeding the calibration range the MS/MSD results for Sulfate are estimated.
- The percent recoveries of the MS/MSD and/or the relative percent difference were not calculated for Aluminum, Iron, and Manganese in Method 6010B because the sample concentrations were greater than four times the spike amounts.
- The method required MS/MSD could not be performed for Methods 8270C, 8081, and 8082 due to insufficient sample volume, however, LCS/LCSD pairs were analyzed to demonstrate method precision.
- All other MS and MSD samples were within established control limits.

#### Organics

- The surrogate recovery for Tetrachloro-m-xylene was above the upper control limit for sample LES MW2 by Method 8081A. The other surrogate, Decachlorobiphenyl, was in control. The sample results are still considered valid because no target analytes were detected. Matrix interference was evident.
- The second source Initial Calibration Verification (ICV) standard for Methyl methanesulfonate by Method 8270C exceeded the percent difference (%D) limits. However, the overall mean percent difference for all compounds is within control limits, therefore, the ICV is also in control and no corrective action was necessary.
- The Continuing Calibration Verification (CCV) standards for Demeton-S, EPN, and Naled by Method 8141A exceeded the percent difference limits. However, the overall mean percent difference is within control limits, therefore, the CCV is also in control and no corrective action was necessary. Additionally, the associated sample was non-detect.

#### Inorganics

- The method required sample duplicate could not be performed for Fecal Coliform due to insufficient sample volume.
- The serial dilution of a digestate in the analytical batch for Barium and Zinc were outside control limits indicating physical and chemical interferences. The associated sample results are flagged "L".

## EXECUTIVE SUMMARY - Detection Highlights

D3K120128

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
<b>LES MW2 11/11/03 12:00 001</b>				
Silver	0.89 B,J	10	ug/L	SW846 6010B
Aluminum	58 B	100	ug/L	SW846 6010B
Barium	16 J,L	10	ug/L	SW846 6010B
Boron	1700 J	100	ug/L	SW846 6010B
Cobalt	0.84 B	10	ug/L	SW846 6010B
Chromium	3.6 B	10	ug/L	SW846 6010B
Copper	4.0 B	10	ug/L	SW846 6010B
Iron	35 B	100	ug/L	SW846 6010B
Manganese	670	10	ug/L	SW846 6010B
Molybdenum	39	20	ug/L	SW846 6010B
Zinc	7.8 B,L	20	ug/L	SW846 6010B
Methylene chloride	0.28 J	5.0	ug/L	SW846 8260B
Specific Conductance	7200	2.0	umhos/cm	MCAWW 120.1
Total Dissolved Solids	6000 Q	40	mg/L	MCAWW 160.1
Total Suspended Solids	2.8 B	4.0	mg/L	MCAWW 160.2
Chloride	1800 Q	300	mg/L	MCAWW 300.0A
Sulfate	2400 Q	500	mg/L	MCAWW 300.0A
Chemical Oxygen Demand (COD)	14 B	20	mg/L	MCAWW 410.4
<b>TRIP BLANK 11/11/03 002</b>				
Methylene chloride	0.48 J	5.0	ug/L	SW846 8260B

## METHODS SUMMARY

D3K120128

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>	<u>PREPARATION METHOD</u>
Chemical Oxygen Demand	MCAWW 410.4	MCAWW 410.4
Chloride	MCAWW 300.0A	MCAWW 300.0A
F. Coliform (Enumeration)	SM18 9222D Feca	SM18 9222D
Filterable Residue (TDS)	MCAWW 160.1	MCAWW 160.1
Fluoride	MCAWW 300.0A	MCAWW 300.0A
Inductively Coupled Plasma (ICP) Metals	SW846 6010B	SW846 3010A
Mercury in Liquid Waste (Manual Cold-Vapor)	SW846 7470A	SW846 7470A
Nitrate as N	MCAWW 300.0A	MCAWW 300.0A
Nitrite as N	MCAWW 300.0A	MCAWW 300.0A
Non-Filterable Residue (TSS)	MCAWW 160.2	MCAWW 160.2
Organochlorine Pesticides	SW846 8081A	SW846 3510C
Organophosphorous Compounds by GC	SW846 8141A	SW846 3510
PCBs by SW-846 8082	SW846 8082	SW846 3510C
Semivolatile Organic Compounds by GC/MS	SW846 8270C	SW846 3520C
Specific Conductance	MCAWW 120.1	MCAWW 120.1
Sulfate	MCAWW 300.0A	MCAWW 300.0A
T. Coliform (Enemeration)	SM18 9222B	SM18 9222B
Total Cyanide	MCAWW 335.3	MCAWW 335.3
Volatile Organics by GC/MS	SW846 8260B	SW846 5030B/826

### References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SM18 "Standard Methods for the Examination of Water and Wastewater", 18th Edition, 1992.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

## METHOD / ANALYST SUMMARY

D3KL20128

<u>ANALYTICAL METHOD</u>	<u>ANALYST</u>	<u>ANALYST ID</u>
MCAWW 120.1	Nicole Dean	008504
MCAWW 160.1	Mark Angerhofer	005823
MCAWW 160.2	Claire Likar	004382
MCAWW 300.0A	Andrita Scofield	004409
MCAWW 335.3	Ewa Kudla	001167
MCAWW 410.4	Nicole Dean	008504
SM18 9222B	Maria Fayard	002596
SM18 9222D Fecal	Maria Fayard	002596
SW846 6010B	Kristen Roda	005692
SW846 6010B	Lynn-Anne Trudell	006645
SW846 7470A	Kacey Ono	003371
SW846 8081A	Steve Szocik	002410
SW846 8082	Sonya Dacar	011595
SW846 8141A	Steve Szocik	002410
SW846 8260B	Greg Meier	006004
SW846 8270C	David Kidd	007536

### References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SM18 "Standard Methods for the Examination of Water and Wastewater", 18th Edition, 1992.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

## SAMPLE SUMMARY

D3K120128

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
F4L7C	001	LES MW2	11/11/03	12:00
F4L7W	002	TRIP BLANK	11/11/03	

### NOTE (S) :

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

## LOCKWOOD GREENE

Client Sample ID: LES MW2

## GC/MS Volatiles

Lot-Sample #....: D3K120128-001 Work Order #....: F4L7C1A8      Matrix.....: WATER  
 Date Sampled...: 11/11/03 12:00 Date Received..: 11/12/03  
 Prep Date.....: 11/21/03 Analysis Date..: 11/21/03  
 Prep Batch #....: 3327096 Analysis Time..: 15:39  
 Dilution Factor: 1

Method.....: SW846 6260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	10	ug/L	2.5
Benzene	ND	1.0	ug/L	0.17
Bromodichloromethane	ND	1.0	ug/L	0.20
Bromoform	ND	1.0	ug/L	0.23
Bromomethane	ND	2.0	ug/L	0.22
2-Butanone (MEK)	ND	5.0	ug/L	2.0
Carbon tetrachloride	ND	1.0	ug/L	0.20
Chlorobenzene	ND	1.0	ug/L	0.13
Chloroethane	ND	2.0	ug/L	0.18
Chloroform	ND	1.0	ug/L	0.17
Chloromethane	ND	2.0	ug/L	0.91
Dibromomethane	ND	1.0	ug/L	0.31
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	0.18
1,2-Dichlorobenzene	ND	1.0	ug/L	0.15
1,3-Dichlorobenzene	ND	1.0	ug/L	0.13
1,4-Dichlorobenzene	ND	1.0	ug/L	0.16
Dichlorodifluoromethane	ND	2.0	ug/L	0.22
1,1-Dichloroethane	ND	1.0	ug/L	0.22
1,2-Dichloroethane	ND	1.0	ug/L	0.26
1,1-Dichloroethene	ND	1.0	ug/L	0.23
1,2-Dichloroethene (total)	ND	1.0	ug/L	0.24
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.14
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.15
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.19
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.20
Ethylbenzene	ND	1.0	ug/L	0.12
2-Hexanone	ND	5.0	ug/L	1.7
Methylene chloride	0.28 J	5.0	ug/L	0.21
4-Methyl-2-pentanone	ND	5.0	ug/L	0.98
Styrene	ND	1.0	ug/L	0.14
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.21
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.21
Tetrachloroethene	ND	1.0	ug/L	0.26
Toluene	ND	1.0	ug/L	0.15
1,2,4-Trichloro- benzene	ND	1.0	ug/L	0.21

(Continued on next page)

## LOCKWOOD GREENE

Client Sample ID: LES MN2

## GC/MS Volatiles

Lot-Sample #....: D3K120128-001 Work Order #....: F4L7C1A8 Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,1-Trichloroethane	ND	1.0	ug/L	0.16
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.16
Trichlorofluoromethane	ND	2.0	ug/L	0.24
1,2,3-Trichloropropane	ND	1.0	ug/L	0.33
Vinyl chloride	ND	1.0	ug/L	0.19
Xylenes (total)	ND	2.0	ug/L	0.41
n-Butylbenzene	ND	1.0	ug/L	0.21
sec-Butylbenzene	ND	1.0	ug/L	0.23
Isopropylbenzene	ND	1.0	ug/L	0.17
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.15
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.16
n-Propylbenzene	ND	1.0	ug/L	0.17
tert-Butylbenzene	ND	1.0	ug/L	0.17
Dibromochloromethane	ND	1.0	ug/L	0.19
2-Chlorotoluene	ND	1.0	ug/L	0.17
4-Chlorotoluene	ND	1.0	ug/L	0.21
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	ug/L	0.47
1,3-Dichloropropane	ND	1.0	ug/L	0.22
2,2-Dichloropropane	ND	5.0	ug/L	0.18
1,1-Dichloropropene	ND	1.0	ug/L	0.19
Hexachlorobutadiene	ND	1.0	ug/L	0.18
4-Isopropyltoluene	ND	1.0	ug/L	0.20
Methyl tert-butyl ether	ND	5.0	ug/L	0.38
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.21
m-Xylene & p-Xylene	ND	2.0	ug/L	0.27
o-Xylene	ND	1.0	ug/L	0.15
Bromobenzene	ND	1.0	ug/L	0.17
Bromochloromethane	ND	1.0	ug/L	0.27
Naphthalene	ND	1.0	ug/L	0.50

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	96	(76 - 116)
1,2-Dichloroethane-d4	107	(59 - 129)
4-Bromofluorobenzene	91	(74 - 114)
Toluene-d8	98	(76 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

## LOCKWOOD GREENE

Client Sample ID: TRIP BLANK

## GC/MS Volatiles

Lot-Sample #....: D3K120128-002    Work Order #....: F4L7W1AA    Matrix.....: WATER  
 Date Sampled....: 11/11/03    Date Received...: 11/12/03  
 Prep Date.....: 11/21/03    Analysis Date...: 11/21/03  
 Prep Batch #....: 3327096    Analysis Time...: 16:03  
 Dilution Factor: 1

Method.....: SW846 8260B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Acetone	ND	1.0	ug/L	2.5
Benzene	ND	1.0	ug/L	0.17
Bromodichloromethane	ND	1.0	ug/L	0.20
Bromoform	ND	1.0	ug/L	0.23
Bromomethane	ND	2.0	ug/L	0.22
2-Butanone (MEK)	ND	5.0	ug/L	2.0
Carbon tetrachloride	ND	1.0	ug/L	0.20
Chlorobenzene	ND	1.0	ug/L	0.13
Chloroethane	ND	2.0	ug/L	0.18
Chloroform	ND	1.0	ug/L	0.17
Chloromethane	ND	2.0	ug/L	0.91
Dibromomethane	ND	1.0	ug/L	0.31
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	0.18
1,2-Dichlorobenzene	ND	1.0	ug/L	0.15
1,3-Dichlorobenzene	ND	1.0	ug/L	0.13
1,4-Dichlorobenzene	ND	1.0	ug/L	0.16
Dichlorodifluoromethane	ND	2.0	ug/L	0.22
1,1-Dichloroethane	ND	1.0	ug/L	0.22
1,2-Dichloroethane	ND	1.0	ug/L	0.26
1,1-Dichloroethene	ND	1.0	ug/L	0.23
1,2-Dichloroethene (total)	ND	1.0	ug/L	0.24
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.14
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.15
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.19
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.20
Ethylbenzene	ND	1.0	ug/L	0.12
2-Hexanone	ND	5.0	ug/L	1.7
Methylene chloride	0.48 J	5.0	ug/L	0.21
4-Methyl-2-pentanone	ND	5.0	ug/L	0.98
Styrene	ND	1.0	ug/L	0.14
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.21
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.21
Tetrachloroethene	ND	1.0	ug/L	0.26
Toluene	ND	1.0	ug/L	0.15
1,2,4-Trichloro- benzene	ND	1.0	ug/L	0.21

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## LOCKWOOD GREENE

Client Sample ID: TRIP BLANK

## GC/MS Volatiles

Lot-Sample #....: D3K120128-002 Work Order #....: F4L7W1AR Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,1-Trichloroethane	ND	1.0	ug/L	0.16
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.16
Trichlorofluoromethane	ND	2.0	ug/L	0.24
1,2,3-Trichloropropane	ND	1.0	ug/L	0.33
Vinyl chloride	ND	1.0	ug/L	0.19
Xylenes (total)	ND	2.0	ug/L	0.41
n-Butylbenzene	ND	1.0	ug/L	0.21
sec-Butylbenzene	ND	1.0	ug/L	0.23
Isopropylbenzene	ND	1.0	ug/L	0.17
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.15
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.16
n-Propylbenzene	ND	1.0	ug/L	0.17
tert-Butylbenzene	ND	1.0	ug/L	0.17
Dibromochloromethane	ND	1.0	ug/L	0.19
2-Chlorotoluene	ND	1.0	ug/L	0.17
4-Chlorotoluene	ND	1.0	ug/L	0.21
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	ug/L	0.47
1,3-Dichloropropane	ND	1.0	ug/L	0.22
2,2-Dichloropropane	ND	5.0	ug/L	0.18
1,1-Dichloropropene	ND	1.0	ug/L	0.19
Hexachlorobutadiene	ND	1.0	ug/L	0.18
4-Isopropyltoluene	ND	1.0	ug/L	0.20
Methyl tert-butyl ether	ND	5.0	ug/L	0.38
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.21
m-Xylene & p-Xylene	ND	2.0	ug/L	0.27
o-Xylene	ND	1.0	ug/L	0.15
Bromobenzene	ND	1.0	ug/L	0.17
Bromochloromethane	ND	1.0	ug/L	0.27
Naphthalene	ND	1.0	ug/L	0.50

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	95	(76 - 116)
1,2-Dichloroethane-d4	100	(59 - 129)
4-Bromofluorobenzene	93	(74 - 114)
Toluene-d8	102	(76 - 116)

NOTE(S) :

J Estimated result. Result is less than RL.

## LOCKWOOD GREENE

Client Sample ID: LES MW2

## GC/MS Semivolatiles

Lot-Sample #....: D3K120128-001 Work Order #....: F4L7C1A9 Matrix.....: WATER  
 Date Sampled...: 11/11/03 12:00 Date Received...: 11/12/03  
 Prep Date.....: 11/14/03 Analysis Date...: 12/11/03  
 Prep Batch #....: 3318453 Analysis Time...: 02:25  
 Dilution Factor: 1

Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	0.60
Acenaphthylene	ND	10	ug/L	0.60
Acetophenone	ND	10	ug/L	2.0
2-Acetylaminofluorene	ND	100	ug/L	1.0
4-Aminobiphenyl	ND	50	ug/L	1.0
Aniline	ND	10	ug/L	4.0
Anthracene	ND	10	ug/L	3.0
Aramite	ND	20	ug/L	2.0
Benzo(a)anthracene	ND	10	ug/L	0.80
Benzo(b)fluoranthene	ND	10	ug/L	0.90
Benzo(k)fluoranthene	ND	10	ug/L	2.0
Benzo(ghi)perylene	ND	10	ug/L	1.0
Benzo(a)pyrene	ND	10	ug/L	0.80
Benzyl alcohol	ND	10	ug/L	1.0
bis(2-Chloroethoxy) methane	ND	10	ug/L	0.90
bis(2-Chloroethyl)- ether	ND	10	ug/L	3.0
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	0.90
4-Bromophenyl phenyl ether	ND	10	ug/L	0.70
Butyl benzyl phthalate	ND	10	ug/L	1.0
4-Chloroaniline	ND	10	ug/L	3.0
Chlorobenzilate	ND	10	ug/L	1.0
4-Chloro-3-methylphenol	ND	10	ug/L	0.80
2-Chloronaphthalene	ND	10	ug/L	0.70
2-Chlorophenol	ND	10	ug/L	0.80
4-Chlorophenyl phenyl ether	ND	10	ug/L	0.60
Chrysene	ND	10	ug/L	0.80
Diallate	ND	20	ug/L	2.0
Dibenz(a,h)anthracene	ND	10	ug/L	0.90
Dibenzofuran	ND	10	ug/L	0.60
Di-n-butyl phthalate	ND	10	ug/L	0.80
1,2-Dichlorobenzene	ND	10	ug/L	0.80
1,3-Dichlorobenzene	ND	10	ug/L	0.80
1,4-Dichlorobenzene	ND	10	ug/L	1.0

(Continued on next page)

## LOCKWOOD GREENE

Client Sample ID: LES MW2

## GC/MS Semivolatiles

Lot-Sample #....: D3K120128-001 Work Order #....: F4L7C1A9 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
3,3'-Dichlorobenzidine	ND	50	ug/L	8.0
2,4-Dichlorophenol	ND	10	ug/L	0.70
2,6-Dichlorophenol	ND	10	ug/L	1.0
Diethyl phthalate	ND	10	ug/L	0.70
Dimethoate	ND	20	ug/L	2.0
7,12-Dimethylbenz(a)-anthracene	ND	20	ug/L	2.0
3,3'-Dimethylbenzidine	ND	20	ug/L	10
2,4-Dimethylphenol	ND	10	ug/L	4.0
Dimethyl phthalate	ND	10	ug/L	0.80
1,3-Dinitrobenzene	ND	10	ug/L	2.0
4,6-Dinitro-2-methylphenol	ND	50	ug/L	6.0
2,4-Dinitrophenol	ND	50	ug/L	6.0
2,4-Dinitrotoluene	ND	10	ug/L	1.0
2,6-Dinitrotoluene	ND	10	ug/L	0.80
Di-n-octyl phthalate	ND	10	ug/L	1.0
Diphenylamine	ND	10	ug/L	1.0
Disulfoton	ND	50	ug/L	6.0
Ethyl methanesulfonate	ND	10	ug/L	2.0
Fluoranthene	ND	10	ug/L	0.70
Fluorene	ND	10	ug/L	0.60
Hexachlorobenzene	ND	10	ug/L	0.80
Hexachlorobutadiene	ND	10	ug/L	1.0
Hexachlorocyclopenta-diene	ND	50	ug/L	5.0
Hexachloroethane	ND	10	ug/L	0.80
Hexachloropropene	ND	100	ug/L	1.0
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.80
Isodrin	ND	10	ug/L	3.0
Isophorone	ND	10	ug/L	0.90
Isosafrole	ND	20	ug/L	2.0
Methapyrilene	ND	50	ug/L	30
3-Methylcholanthrene	ND	20	ug/L	3.0
Methyl methanesulfonate	ND	10	ug/L	2.0
2-Methylnaphthalene	ND	10	ug/L	0.80
Methyl parathion	ND	50	ug/L	2.0
2-Methylphenol	ND	10	ug/L	0.90
3-Methylphenol & 4-Methylphenol	ND	10	ug/L	0.80
Naphthalene	ND	10	ug/L	0.80
1,4-Naphthoquinone	ND	50	ug/L	2.0
1-Naphthylamine	ND	10	ug/L	2.0

(Continued on next page)

## LOCKWOOD GREENE

Client Sample ID: LES MW2

## GC/MS Semivolatiles

Lot-Sample #....: D3K120128-001 Work Order #....: F4L7C1A9 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2-Naphthylamine	ND	10	ug/L	1.0
2-Nitroaniline	ND	50	ug/L	0.90
3-Nitroaniline	ND	50	ug/L	0.90
4-Nitroaniline	ND	50	ug/L	6.0
Nitrobenzene	ND	10	ug/L	2.0
2-Nitrophenol	ND	10	ug/L	0.80
4-Nitrophenol	ND	50	ug/L	7.0
4-Nitroquinoline-1-oxide	ND	100	ug/L	50
N-Nitrosodi-n-butylamine	ND	10	ug/L	2.0
N-Nitrosodiethylamine	ND	10	ug/L	2.0
N-Nitrosodimethylamine	ND	10	ug/L	0.80
N-Nitrosodiphenylamine	ND	10	ug/L	1.0
N-Nitrosodi-n-propylamine	ND	10	ug/L	0.70
N-Nitrosomethylamine	ND	10	ug/L	2.0
N-Nitrosomorpholine	ND	10	ug/L	2.0
N-Nitrosopiperidine	ND	10	ug/L	2.0
N-Nitrosopyrrolidine	ND	10	ug/L	2.0
5-Nitro-o-toluidine	ND	20	ug/L	1.0
Parathion	ND	50	ug/L	2.0
Pentachlorobenzene	ND	10	ug/L	2.0
Pentachloroethane	ND	50	ug/L	2.0
Pentachloronitrobenzene	ND	50	ug/L	2.0
Pentachlorophenol	ND	50	ug/L	5.0
Phenacetin	ND	20	ug/L	1.0
Phenanthrene	ND	10	ug/L	0.70
Phenol	ND	10	ug/L	0.90
Phorate	ND	50	ug/L	1.0
2-Picoline	ND	20	ug/L	1.0
Pronamide	ND	20	ug/L	1.0
Pyrene	ND	10	ug/L	0.80
Pyridine	ND	20	ug/L	10
1,2,4,5-Tetrachlorobenzene	ND	10	ug/L	2.0
2,3,4,6-Tetrachlorophenol	ND	50	ug/L	5.0
Thionazin	ND	10	ug/L	2.0
o-Toluidine	ND	10	ug/L	2.0
1,2,4-Trichlorobenzene	ND	10	ug/L	0.90
2,4,5-Trichlorophenol	ND	10	ug/L	1.0
2,4,6-Trichlorophenol	ND	10	ug/L	0.80

(Continued on next page)

## LOCKWOOD GREENE

Client Sample ID: LES MW2

## GC/MS Semivolatiles

Lot-Sample #....: D3K120128-001 Work Order #....: F4L7C1A9 Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	REPORTING		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
O,O,O-Triethylphosphoro-thioate	ND	50	ug/L	2.0
1,3,5-Trinitrobenzene	ND	50	ug/L	2.0
<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	RECOVERY <u>LIMITS</u>		
		(32 - 116)		
2-Fluorophenol	66	(40 - 111)		
Phenol-d5	73	(53 - 107)		
Nitrobenzene-d5	79	(31 - 105)		
2-Fluorobiphenyl	70	(42 - 122)		
2,4,6-Tribromophenol	74	(21 - 125)		
Terphenyl-d14	84			

## LOCKWOOD GREENE

Client Sample ID: LES MW2

## GC Semivolatiles

Lot-Sample #....: D3K120128-001 Work Order #....: F4L7C1CC Matrix.....: WATER  
 Date Sampled....: 11/11/03 12:00 Date Received...: 11/12/03  
 Prep Date.....: 11/17/03 Analysis Date...: 12/12/03  
 Prep Batch #....: 3321203 Analysis Time...: 23:49  
 Dilution Factor: 1

Method.....: SW846 8081A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aldrin	ND	0.050	ug/L	0.0070
alpha-BHC	ND	0.050	ug/L	0.010
beta-BHC	ND	0.050	ug/L	0.010
delta-BHC	ND	0.050	ug/L	0.010
gamma-BHC (Lindane)	ND	0.050	ug/L	0.0080
Chlordane (technical)	ND	0.50	ug/L	0.060
4,4'-DDD	ND	0.050	ug/L	0.010
4,4'-DDE	ND	0.050	ug/L	0.010
4,4'-DDT	ND	0.050	ug/L	0.010
Dieldrin	ND	0.050	ug/L	0.0090
Endrin	ND	0.050	ug/L	0.020
Endrin aldehyde	ND	0.050	ug/L	0.010
Endosulfan I	ND	0.050	ug/L	0.020
Endosulfan II	ND	0.050	ug/L	0.010
Endosulfan sulfate	ND	0.050	ug/L	0.010
Heptachlor	ND	0.050	ug/L	0.010
Heptachlor epoxide	ND	0.050	ug/L	0.010
Methoxychlor	ND	0.10	ug/L	0.020
Toxaphene	ND	5.0	ug/L	0.50

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	93	(29 - 125)
Tetrachloro-m-xylene	117 *	(40 - 115)

## NOTE(S) :

- \* Surrogate recovery is outside stated control limits.

## LOCKWOOD GREENE

Client Sample ID: LES MW2

## GC Semivolatiles

Lot-Sample #....: D3K120128-001 Work Order #....: F4L7C1CA Matrix.....: WATER  
 Date Sampled....: 11/11/03 12:00 Date Received...: 11/12/03  
 Prep Date.....: 11/17/03 Analysis Date...: 12/07/03  
 Prep Batch #....: 3321215 Analysis Time...: 19:55  
 Dilution Factor: 1 Method.....: SW846 8082

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Aroclor 1016	ND	1.0	ug/L	0.15
Aroclor 1221	ND	1.0	ug/L	0.25
Aroclor 1232	ND	1.0	ug/L	0.14
Aroclor 1242	ND	1.0	ug/L	0.14
Aroclor 1248	ND	1.0	ug/L	0.15
Aroclor 1254	ND	1.0	ug/L	0.22
Aroclor 1260	ND	1.0	ug/L	0.16

  

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>	
		<u>RECOVERY</u>	<u>LIMITS</u>
Tetrachloro-m-xylene	95	(52 - 160)	
Decachlorobiphenyl	89	(37 - 144)	

## LOCKWOOD GREENE

Client Sample ID: LES MW2

## GC Semivolatiles

Lot-Sample #....: D3K120128-001 Work Order #....: F4L7C1CD Matrix.....: WATER  
 Date Sampled....: 11/11/03 12:00 Date Received...: 11/12/03  
 Prep Date.....: 11/18/03 Analysis Date...: 12/02/03  
 Prep Batch #....: 3322194 Analysis Time...: 15:15  
 Dilution Factor: 1

Method.....: SW846 8141A

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Azinphos-methyl	ND	2.5	ug/L	0.14
Bolstar	ND	0.50	ug/L	0.14
Chlorpyrifos	ND	0.50	ug/L	0.054
Coumaphos	ND	0.50	ug/L	0.079
Demeton (total)	ND	1.0	ug/L	0.19
Diazinon	ND	0.50	ug/L	0.039
Dichlorvos	ND	0.50	ug/L	0.13
Dimethoate	ND	0.50	ug/L	0.18
Disulfoton	ND	0.50	ug/L	0.057
Ethoprop	ND	0.50	ug/L	0.056
Ethyl parathion	ND	0.50	ug/L	0.040
Famphur	ND	1.0	ug/L	0.054
Fensulfothion	ND	2.5	ug/L	0.22
Fenthion	ND	0.50	ug/L	0.061
Malathion	ND	1.2	ug/L	0.050
Merphos	ND	5.0	ug/L	0.063
Methyl parathion	ND	0.50	ug/L	0.061
Mevinphos	ND	6.2	ug/L	0.16
Naled	ND	10	ug/L	0.22
O,O,O-Triethylphosphoro-thioate	ND	0.50	ug/L	0.15
Phorate	ND	0.50	ug/L	0.075
Ronnel	ND	10	ug/L	0.11
Sulfotepp	ND	0.50	ug/L	0.030
Thionazin	ND	0.50	ug/L	0.059
Tokuthion	ND	0.50	ug/L	0.071
Trichloronate	ND	0.50	ug/L	0.057
EPN	ND	0.50	ug/L	0.050
Demeton-O	ND	1.0	ug/L	0.19
Demeton-S	ND	1.0	ug/L	0.19
Tetrachlorvinphos (Stirophos)	ND	2.5	ug/L	0.056

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>	
		<u>RECOVERY</u>	<u>LIMITS</u>
Chlormefos	89	(49 - 105)	
Ethyl Pirimifos	80	(20 - 121)	

## LOCKWOOD GREENE

Client Sample ID: LES MN2

## TOTAL Metals

Lot-Sample #...: D3K120128-001 Matrix.....: WATER  
 Date Sampled...: 11/11/03 12:00 Date Received..: 11/12/03

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
		LIMIT	UNITS				
<b>Prep Batch #...: 3317398</b>							
Mercury	ND	0.20	ug/L	SW846 7470A	11/18/03	F4L7C1A7	
Dilution Factor: 1 Analysis Time.: 18:03 MDL.....: 0.054							
<b>Prep Batch #...: 3317761</b>							
Silver	0.89 B,J	10	ug/L	SW846 6010B	11/19-11/20/03	F4L7C1AK	
Dilution Factor: 1 Analysis Time.: 18:07 MDL.....: 0.70							
Aluminum	58 B	100	ug/L	SW846 6010B	11/19-11/21/03	F4L7C1AL	
Dilution Factor: 1 Analysis Time.: 23:05 MDL.....: 20							
Arsenic	ND	15	ug/L	SW846 6010B	11/19-11/20/03	F4L7C1AM	
Dilution Factor: 1 Analysis Time.: 18:07 MDL.....: 4.9							
Barium	16 J,L	10	ug/L	SW846 6010B	11/19-11/20/03	F4L7C1AN	
Dilution Factor: 1 Analysis Time.: 18:07 MDL.....: 0.37							
Beryllium	ND	5.0	ug/L	SW846 6010B	11/19-11/20/03	F4L7C1AP	
Dilution Factor: 1 Analysis Time.: 18:07 MDL.....: 0.41							
Boron	1700 J	100	ug/L	SW846 6010B	11/19-11/21/03	F4L7C1AQ	
Dilution Factor: 1 Analysis Time.: 23:05 MDL.....: 6.3							
Cadmium	ND	5.0	ug/L	SW846 6010B	11/19-11/20/03	F4L7C1AR	
Dilution Factor: 1 Analysis Time.: 18:07 MDL.....: 0.27							
Cobalt	0.84 B	10	ug/L	SW846 6010B	11/19-11/20/03	F4L7C1AT	
Dilution Factor: 1 Analysis Time.: 18:07 MDL.....: 0.67							
Chromium	3.6 B	10	ug/L	SW846 6010B	11/19-11/20/03	F4L7C1AU	
Dilution Factor: 1 Analysis Time.: 18:07 MDL.....: 2.1							
Copper	4.0 B	10	ug/L	SW846 6010B	11/19-11/20/03	F4L7C1AV	
Dilution Factor: 1 Analysis Time.: 18:07 MDL.....: 0.97							
Iron	35 B	100	ug/L	SW846 6010B	11/19-11/21/03	F4L7C1AW	
Dilution Factor: 1 Analysis Time.: 23:05 MDL.....: 19							
Manganese	670	10	ug/L	SW846 6010B	11/19-11/21/03	F4L7C1AX	
Dilution Factor: 1 Analysis Time.: 23:05 MDL.....: 0.54							

(Continued on next page)

## LOCKWOOD GREENE

Client Sample ID: LKS MW2

## TOTAL Metals

Lot-Sample #....: D3K120128-001

Matrix.....: WATER

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
		LIMIT	UNITS				
Molybdenum	39	20	ug/L	Dilution Factor: 1	SW846 6010B	11/19-11/20/03	F4L7C1A0
					Analysis Time..: 18:07	MDL.....	: 2.3
Nickel	ND	40	ug/L	Dilution Factor: 1	SW846 6010B	11/19-11/20/03	F4L7C1A1
					Analysis Time..: 18:07	MDL.....	: 4.2
Lead	ND L	3.0	ug/L	Dilution Factor: 1	SW846 6010B	11/19-11/20/03	F4L7C1A2
					Analysis Time..: 18:07	MDL.....	: 2.1
Antimony	ND	10	ug/L	Dilution Factor: 1	SW846 6010B	11/19-11/20/03	F4L7C1A3
					Analysis Time..: 18:07	MDL.....	: 3.6
Selenium	ND	15	ug/L	Dilution Factor: 1	SW846 6010B	11/19-11/20/03	F4L7C1A4
					Analysis Time..: 18:07	MDL.....	: 4.6
Thallium	ND	10	ug/L	Dilution Factor: 1	SW846 6010B	11/19-11/20/03	F4L7C1A5
					Analysis Time..: 18:07	MDL.....	: 6.1
Zinc	7.8 B,L	20	ug/L	Dilution Factor: 1	SW846 6010B	11/19-11/20/03	F4L7C1A6
					Analysis Time..: 18:07	MDL.....	: 7.1

NOTE(S) :

B Estimated result. Result is less than RL.

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

L Serial dilution of a digestate in the analytical batch indicates that physical and chemical interferences are present.

## LOCKWOOD GREENE

Client Sample ID: LES MW2

## General Chemistry

Lot-Sample #....: D3K120128-001 Work Order #....: F4L7C Matrix.....: WATER  
 Date Sampled....: 11/11/03 12:00 Date Received...: 11/12/03

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chemical Oxygen Demand (COD)	14 B	20	mg/L	MCAWW 410.4	11/23/03	3327118
		Dilution Factor: 1		Analysis Time...: 13:40	MDL.....: 2.9	
Chloride	1800 Q	300	mg/L	MCAWW 300.0A	11/12/03	3317591
		Dilution Factor: 100		Analysis Time...: 18:20	MDL.....: 20	
Fecal Coliform	ND	1.0	CFU/100m	SM18 9222D Fecal	11/12/03	3321262
		Dilution Factor: 1		Analysis Time...: 11:00	MDL.....:	
Fluoride	ND G	5.0	mg/L	MCAWW 300.0A	11/12/03	3317590
		Dilution Factor: 5		Analysis Time...: 17:58	MDL.....: 0.50	
Nitrate	ND G	2.5	mg/L	MCAWW 300.0A	11/12/03	3317593
		Dilution Factor: 5		Analysis Time...: 17:58	MDL.....: 0.25	
Nitrite	ND G	2.5	mg/L	MCAWW 300.0A	11/12/03	3317594
		Dilution Factor: 5		Analysis Time...: 17:58	MDL.....: 0.25	
Specific Conductance	7200	2.0	umhos/cm	MCAWW 120.1	11/17/03	3321475
		Dilution Factor: 1		Analysis Time...: 12:00	MDL.....:	
Sulfate	2400 Q	500	mg/L	MCAWW 300.0A	11/12/03	3317592
		Dilution Factor: 100		Analysis Time...: 18:20	MDL.....: 20	
Total Coliform	ND	1.0	CFU/100m	SM18 9222B	11/12/03	3321264
		Dilution Factor: 1		Analysis Time...: 11:00	MDL.....:	
Total Cyanide	ND	0.010	mg/L	MCAWW 335.3	11/19/03	3324356
		Dilution Factor: 1		Analysis Time...: 13:00	MDL.....: 0.0039	
Total Dissolved Solids	6000 Q	40	mg/L	MCAWW 160.1	11/17/03	3329641
		Dilution Factor: 4		Analysis Time...: 18:00	MDL.....: 12	
Total Suspended Solids	2.8 B	4.0	mg/L	MCAWW 160.2	11/17/03	3324539
		Dilution Factor: 1		Analysis Time...: 20:00	MDL.....: 0.87	

NOTE(S) :

RL Reporting Limit

B Estimated result. Result is less than RL.

Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

# QC DATA ASSOCIATION SUMMARY

D3K120128

## Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	WATER	MCAWW 120.1		3321475	3322095
	WATER	MCAWW 160.1		3329641	3330150
	WATER	MCAWW 160.2		3324539	3324286
	WATER	MCAWW 300.0A		3317591	3317295
	WATER	MCAWW 300.0A		3317592	3317302
	WATER	MCAWW 300.0A		3317590	3317291
	WATER	MCAWW 300.0A		3317593	3317301
	WATER	MCAWW 300.0A		3317594	3317297
	WATER	SM18 9222D Fecal		3321262	
	WATER	SW846 7470A		3317398	3317175
	WATER	SM18 9222B		3321264	
	WATER	SW846 8141A		3322194	3322082
	WATER	SW846 8082		3321215	
	WATER	SW846 8081A		3321203	
	WATER	SW846 8260B		3327096	3327009
	WATER	SW846 8270C		3318453	
	WATER	SW846 6010B		3317761	3317382
	WATER	MCAWW 335.3		3324356	3324184
	WATER	MCAWW 410.4		3327118	3327030
002	WATER	SW846 8260B		3327096	3327009

## METHOD BLANK REPORT

## GC/MS Volatiles

Client Lot #....: D3K120128      Work Order #....: F5G461AA      Matrix.....: WATER  
 MB Lot-Sample #: D3K230000-096  
 Analysis Date...: 11/21/03      Prep Date.....: 11/21/03      Analysis Time..: 09:08  
 Dilution Factor: 1      Prep Batch #: 3327096

PARAMETER	REPORTING			
	RESULT	LIMIT	UNITS	METHOD
Acetone	ND	10	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
2-Butanone (MEK)	ND	5.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	2.0	ug/L	SW846 8260B
Dibromomethane	ND	1.0	ug/L	SW846 8260B
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	2.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
(total)				
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	5.0	ug/L	SW846 8260B
Methylene chloride	ND	5.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,2,4-Trichloro- benzene	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B

(Continued on next page)

## METHOD BLANK REPORT

## GC/MS Volatiles

Client Lot #....: D3K120128

Work Order #....: F5G461AA

Matrix.....: WATER

<u>PARAMETER</u>	REPORTING			<u>METHOD</u>
	<u>RESULT</u>	<u>LIMIT</u>	<u>UNITS</u>	
Trichlorofluoromethane	ND	2.0	ug/L	SW846 8260B
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	2.0	ug/L	SW846 8260B
n-Butylbenzene	ND	1.0	ug/L	SW846 8260B
sec-Butylbenzene	ND	1.0	ug/L	SW846 8260B
Isopropylbenzene	ND	1.0	ug/L	SW846 8260B
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
n-Propylbenzene	ND	1.0	ug/L	SW846 8260B
tert-Butylbenzene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
2-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
4-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	ug/L	SW846 8260B
1,3-Dichloropropane	ND	1.0	ug/L	SW846 8260B
2,2-Dichloropropane	ND	5.0	ug/L	SW846 8260B
1,1-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Hexachlorobutadiene	ND	1.0	ug/L	SW846 8260B
4-Isopropyltoluene	ND	1.0	ug/L	SW846 8260B
Methyl tert-butyl ether	ND	5.0	ug/L	SW846 8260B
1,2,3-Trichlorobenzene	ND	1.0	ug/L	SW846 8260B
m-Xylene & p-Xylene	ND	2.0	ug/L	SW846 8260B
o-Xylene	ND	1.0	ug/L	SW846 8260B
Bromobenzene	ND	1.0	ug/L	SW846 8260B
Bromochloromethane	ND	1.0	ug/L	SW846 8260B
Naphthalene	ND	1.0	ug/L	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	90	(76 - 116)
1,2-Dichloroethane-d4	86	(59 - 129)
4-Bromofluorobenzene	85	(74 - 114)
Toluene-d8	102	(76 - 116)

## NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

**LABORATORY CONTROL SAMPLE EVALUATION REPORT**

**GC/MS Volatiles**

Client Lot #...: D3K120128      Work Order #...: F5G461AC      Matrix.....: WATER  
LCS Lot-Sample#: D3K230000-096  
Prep Date.....: 11/21/03      Analysis Date...: 11/21/03  
Prep Batch #:...: 3327096      Analysis Time...: 08:43  
Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT</u>	<u>RECOVERY</u>	<u>METHOD</u>
	<u>RECOVERY</u>	<u>LIMITS</u>	
Benzene	91	(75 - 116)	SW846 8260B
Chlorobenzene	87	(77 - 117)	SW846 8260B
1,1-Dichloroethene	92	(67 - 125)	SW846 8260B
Toluene	93	(74 - 115)	SW846 8260B
Trichloroethene	95	(80 - 123)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	90	(76 - 116)
1,2-Dichloroethane-d4	86	(59 - 129)
4-Bromofluorobenzene	88	(74 - 114)
Toluene-d8	104	(76 - 116)

**NOTE(S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

## LABORATORY CONTROL SAMPLE DATA REPORT

## GC/MS Volatiles

Client Lot #....: D3K120128      Work Order #....: F5G461AC      Matrix.....: WATER  
 LCS Lot-Sample#: D3K230000-096  
 Prep Date.....: 11/21/03      Analysis Date...: 11/21/03  
 Prep Batch #:....: 3327096      Analysis Time...: 08:43  
 Dilution Factor: 1

<u>PARAMETER</u>	<u>SPIKE</u>	<u>MEASURED</u>	<u>UNITS</u>	<u>PERCENT</u>	<u>METHOD</u>
	<u>AMOUNT</u>	<u>AMOUNT</u>		<u>RECOVERY</u>	
Benzene	10.0	9.09	ug/L	91	SW846 8260B
Chlorobenzene	10.0	8.72	ug/L	87	SW846 8260B
1,1-Dichloroethene	10.0	9.16	ug/L	92	SW846 8260B
Toluene	10.0	9.29	ug/L	93	SW846 8260B
Trichloroethene	10.0	9.51	ug/L	95	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	90	(76 - 116)
1,2-Dichloroethane-d4	86	(59 - 129)
4-Bromofluorobenzene	88	(74 - 114)
Toluene-d8	104	(76 - 116)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #: D3K120128      Work Order #: F41HD1AC-MS      Matrix.....: WATER  
 MS Lot-Sample #: D3K170149-001      F41HD1AD-MSD  
 Date Sampled...: 11/14/03 15:18 Date Received...: 11/14/03  
 Prep Date.....: 11/21/03      Analysis Date...: 11/21/03  
 Prep Batch #: 3327096      Analysis Time...: 09:56  
 Dilution Factor: 133.3

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Benzene	94	(75 - 116)			SW846 8260B
	99	(75 - 116)	4.2	(0-20)	SW846 8260B
Chlorobenzene	96	(77 - 117)			SW846 8260B
	93	(77 - 117)	3.2	(0-20)	SW846 8260B
1,1-Dichloroethene	82	(67 - 125)			SW846 8260B
	84	(67 - 125)	2.4	(0-20)	SW846 8260B
Toluene	99	(74 - 115)			SW846 8260B
	99	(74 - 115)	0.42	(0-20)	SW846 8260B
Trichloroethene	98	(80 - 123)			SW846 8260B
	100	(80 - 123)	1.9	(0-20)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	88	(76 - 116)
	93	(76 - 116)
1,2-Dichloroethane-d4	88	(59 - 129)
	88	(59 - 129)
4-Bromofluorobenzene	92	(74 - 114)
	89	(74 - 114)
Toluene-d8	109	(76 - 116)
	96	(76 - 116)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #....: D3K120128      Work Order #....: F41HD1AC-MS      Matrix.....: WATER  
 MS Lot-Sample #: D3K170149-001      F41HD1AD-MSD  
 Date Sampled....: 11/14/03 15:18 Date Received...: 11/14/03  
 Prep Date.....: 11/21/03      Analysis Date...: 11/21/03  
 Prep Batch #:....: 3327096      Analysis Time...: 09:56  
 Dilution Factor: 133.3

PARAMETER	SAMPLE	SPIKE	MEASRD	UNITS	PERCNT		METHOD
	AMOUNT	AMT	AMOUNT		RECVRY	RPD	
Benzene	ND	1330	1260	ug/L	94		SW846 8260B
	ND	1330	1310	ug/L	99	4.2	SW846 8260B
Chlorobenzene	ND	1330	1280	ug/L	96		SW846 8260B
	ND	1330	1240	ug/L	93	3.2	SW846 8260B
1,1-Dichloroethene	ND	1330	1100	ug/L	82		SW846 8260B
	ND	1330	1120	ug/L	84	2.4	SW846 8260B
Toluene	ND	1330	1320	ug/L	99		SW846 8260B
	ND	1330	1330	ug/L	99	0.42	SW846 8260B
Trichloroethene	30	1330	1340	ug/L	98		SW846 8260B
	30	1330	1360	ug/L	100	1.9	SWB46 8260B

SURROGATE	PERCENT	RECOVERY	LIMITS
	RECOVERY		
Dibromofluoromethane	88		(76 - 116)
	93		(76 - 116)
1,2-Dichloroethane-d4	88		(59 - 129)
	88		(59 - 129)
4-Bromofluorobenzene	92		(74 - 114)
	89		(74 - 114)
Toluene-d8	109		(76 - 116)
	96		(76 - 116)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

## METHOD BLANK REPORT

## GC/MS Semivolatiles

Client Lot #....: D3K120128      Work Order #....: F4V7P1AA      Matrix.....: WATER  
 MB Lot-Sample #: D3K140000-453  
 Analysis Date...: 12/10/03      Prep Date.....: 11/14/03      Analysis Time..: 23:07  
 Dilution Factor: 1      Prep Batch #: 3318453

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acenaphthene	ND	10	ug/L	SW846 8270C
Acenaphthylene	ND	10	ug/L	SW846 8270C
Acetophenone	ND	10	ug/L	SW846 8270C
2-Acetylaminofluorene	ND	100	ug/L	SW846 8270C
4-Aminobiphenyl	ND	50	ug/L	SW846 8270C
Aniline	ND	10	ug/L	SW846 8270C
Anthracene	ND	10	ug/L	SW846 8270C
Aramite	ND	20	ug/L	SW846 8270C
Benzo(a)anthracene	ND	10	ug/L	SW846 8270C
Benzo(b)fluoranthene	ND	10	ug/L	SW846 8270C
Benzo(k)fluoranthene	ND	10	ug/L	SW846 8270C
Benzo(ghi)perylene	ND	10	ug/L	SW846 8270C
Benzo(a)pyrene	ND	10	ug/L	SW846 8270C
Benzyl alcohol	ND	10	ug/L	SW846 8270C
bis(2-Chloroethoxy) methane	ND	10	ug/L	SW846 8270C
bis(2-Chloroethyl)- ether	ND	10	ug/L	SW846 8270C
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	SW846 8270C
4-Bromophenyl phenyl ether	ND	10	ug/L	SW846 8270C
Butyl benzyl phthalate	ND	10	ug/L	SW846 8270C
4-Chloroaniline	ND	10	ug/L	SW846 8270C
Chlorobenzilate	ND	10	ug/L	SW846 8270C
4-Chloro-3-methylphenol	ND	10	ug/L	SW846 8270C
2-Chloronaphthalene	ND	10	ug/L	SW846 8270C
2-Chlorophenol	ND	10	ug/L	SW846 8270C
4-Chlorophenyl phenyl ether	ND	10	ug/L	SW846 8270C
Chrysene	ND	10	ug/L	SW846 8270C
Diallate	ND	20	ug/L	SW846 8270C
Dibenz(a,h)anthracene	ND	10	ug/L	SW846 8270C
Dibenzofuran	ND	10	ug/L	SW846 8270C
Di-n-butyl phthalate	ND	10	ug/L	SW846 8270C
1,2-Dichlorobenzene	ND	10	ug/L	SW846 8270C
1,3-Dichlorobenzene	ND	10	ug/L	SW846 8270C
1,4-Dichlorobenzene	ND	10	ug/L	SW846 8270C
3,3'-Dichlorobenzidine	ND	50	ug/L	SW846 8270C
2,4-Dichlorophenol	ND	10	ug/L	SW846 8270C
2,6-Dichlorophenol	ND	10	ug/L	SW846 8270C

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## METHOD BLANK REPORT

## GC/MS Semivolatiles

Client Lot #....: D3K120128

Work Order #....: F4V7P1AA

Matrix.....: WATER

PARAMETER	RESULT	REPORTING		METHOD
		LIMIT	UNITS	
Diethyl phthalate	ND	10	ug/L	SW846 8270C
Dimethoate	ND	20	ug/L	SW846 8270C
7,12-Dimethylbenz(a)-anthracene	ND	20	ug/L	SW846 8270C
3,3'-Dimethylbenzidine	ND	20	ug/L	SW846 8270C
2,4-Dimethylphenol	ND	10	ug/L	SW846 8270C
Dimethyl phthalate	ND	10	ug/L	SW846 8270C
1,3-Dinitrobenzene	ND	10	ug/L	SW846 8270C
4,6-Dinitro-2-methylphenol	ND	50	ug/L	SW846 8270C
2,4-Dinitrophenol	ND	50	ug/L	SW846 8270C
2,4-Dinitrotoluene	ND	10	ug/L	SW846 8270C
2,6-Dinitrotoluene	ND	10	ug/L	SW846 8270C
Di-n-octyl phthalate	ND	10	ug/L	SW846 8270C
Diphenylamine	ND	10	ug/L	SW846 8270C
Disulfoton	ND	50	ug/L	SW846 8270C
Ethyl methanesulfonate	ND	10	ug/L	SW846 8270C
Fluoranthene	ND	10	ug/L	SW846 8270C
Fluorene	ND	10	ug/L	SW846 8270C
Hexachlorobenzene	ND	10	ug/L	SW846 8270C
Hexachlorobutadiene	ND	10	ug/L	SW846 8270C
Hexachlorocyclopentadiene	ND	50	ug/L	SW846 8270C
Hexachloroethane	ND	10	ug/L	SW846 8270C
Hexachloropropene	ND	100	ug/L	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	SW846 8270C
Isodrin	ND	10	ug/L	SW846 8270C
Isophorone	ND	10	ug/L	SW846 8270C
Isosafrole	ND	20	ug/L	SW846 8270C
Methapyrilene	ND	50	ug/L	SW846 8270C
3-Methylcholanthrene	ND	20	ug/L	SW846 8270C
Methyl methanesulfonate	ND	10	ug/L	SW846 8270C
2-Methylnaphthalene	ND	10	ug/L	SW846 8270C
Methyl parathion	ND	50	ug/L	SW846 8270C
2-Methylphenol	ND	10	ug/L	SW846 8270C
3-Methylphenol & 4-Methylphenol	ND	10	ug/L	SW846 8270C
Naphthalene	ND	10	ug/L	SW846 8270C
1,4-Naphthoquinone	ND	50	ug/L	SW846 8270C
1-Naphthylamine	ND	10	ug/L	SW846 8270C
2-Naphthylamine	ND	10	ug/L	SW846 8270C
2-Nitroaniline	ND	50	ug/L	SW846 8270C
3-Nitroaniline	ND	50	ug/L	SW846 8270C
4-Nitroaniline	ND	50	ug/L	SW846 8270C
Nitrobenzene	ND	10	ug/L	SW846 8270C

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## METHOD BLANK REPORT

## GC/MS Semivolatiles

Client Lot #....: D3K120128

Work Order #....: F4V7P1AA

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	REPORTING		
		<u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
2-Nitrophenol	ND	10	ug/L	SW846 8270C
4-Nitrophenol	ND	50	ug/L	SW846 8270C
4-Nitroquinoline-1-oxide	ND	100	ug/L	SW846 8270C
N-Nitrosodi-n-butylamine	ND	10	ug/L	SW846 8270C
N-Nitrosodiethylamine	ND	10	ug/L	SW846 8270C
N-Nitrosodimethylamine	ND	10	ug/L	SW846 8270C
N-Nitrosodiphenylamine	ND	10	ug/L	SW846 8270C
N-Nitrosodi-n-propyl-amine	ND	10	ug/L	SW846 8270C
N-Nitrosomethylethylamine	ND	10	ug/L	SW846 8270C
N-Nitrosomorpholine	ND	10	ug/L	SW846 8270C
N-Nitrosopiperidine	ND	10	ug/L	SW846 8270C
N-Nitrosopyrrolidine	ND	10	ug/L	SW846 8270C
5-Nitro-o-toluidine	ND	20	ug/L	SW846 8270C
Parathion	ND	50	ug/L	SW846 8270C
Pentachlorobenzene	ND	10	ug/L	SW846 8270C
Pentachloroethane	ND	50	ug/L	SW846 8270C
Pentachloronitrobenzene	ND	50	ug/L	SW846 8270C
Pentachlorophenol	ND	50	ug/L	SW846 8270C
Phenacetin	ND	20	ug/L	SW846 8270C
Phenanthrene	ND	10	ug/L	SW846 8270C
Phenol	ND	10	ug/L	SW846 8270C
Phorate	ND	50	ug/L	SW846 8270C
2-Picoline	ND	20	ug/L	SW846 8270C
Fronamide	ND	20	ug/L	SW846 8270C
Pyrene	ND	10	ug/L	SW846 8270C
Pyridine	ND	20	ug/L	SW846 8270C
1,2,4,5-Tetrachloro-benzene	ND	10	ug/L	SW846 8270C
2,3,4,6-Tetrachlorophenol	ND	50	ug/L	SW846 8270C
Thionazin	ND	10	ug/L	SW846 8270C
o-Toluidine	ND	10	ug/L	SW846 8270C
1,2,4-Trichloro-benzene	ND	10	ug/L	SW846 8270C
2,4,5-Trichloro-phenol	ND	10	ug/L	SW846 8270C
2,4,6-Trichloro-phenol	ND	10	ug/L	SW846 8270C
0,0,0-Triethylphosphoro-thioate	ND	50	ug/L	SW846 8270C
1,3,5-Trinitrobenzene	ND	50	ug/L	SW846 8270C

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## METHOD BLANK REPORT

## GC/MS Semivolatiles

Client Lot #....: D3K120128

Work Order #....: F4V7P1AA

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>		
2-Fluorophenol	70	(32 - 116)		
Phenol-d5	72	(40 - 111)		
Nitrobenzene-d5	70	(53 - 107)		
2-Fluorobiphenyl	62	(31 - 105)		
2,4,6-Tribromophenol	69	(42 - 122)		
Terphenyl-d14	77	(21 - 125)		

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

**LABORATORY CONTROL SAMPLE EVALUATION REPORT**

**GC/MS Semivolatiles**

Client Lot #...: D3K120128      Work Order #...: F4V7P1AC-LCS      Matrix.....: WATER  
 LCS Lot-Sample#: D3K140000-453      F4V7P1AD-LCSD  
 Prep Date.....: 11/14/03      Analysis Date..: 12/10/03  
 Prep Batch #...: 3318453      Analysis Time..: 23:32  
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Acenaphthene	73	(55 - 97)			SW846 8270C
	68	(55 - 97)	7.0	(0-30)	SW846 8270C
4-Chloro-3-methylphenol	77	(59 - 106)			SW846 8270C
	77	(59 - 106)	0.26	(0-40)	SW846 8270C
2-Chlorophenol	80	(59 - 105)			SW846 8270C
	78	(59 - 105)	3.1	(0-40)	SW846 8270C
1,4-Dichlorobenzene	63	(31 - 98)			SW846 8270C
	53	(31 - 98)	17	(0-40)	SW846 8270C
2,4-Dinitrotoluene	71	(57 - 113)			SW846 8270C
	68	(57 - 113)	4.3	(0-40)	SW846 8270C
4-Nitrophenol	67	(43 - 118)			SW846 8270C
	62	(43 - 118)	7.2	(0-40)	SW846 8270C
N-Nitrosodi-n-propyl-amine	73	(51 - 99)			SW846 8270C
	71	(51 - 99)	3.4	(0-40)	SW846 8270C
Pentachlorophenol	73	(48 - 114)			SW846 8270C
	70	(48 - 114)	4.0	(0-40)	SW846 8270C
Phenol	81	(56 - 106)			SW846 8270C
	80	(56 - 106)	2.1	(0-40)	SW846 8270C
Pyrene	73	(51 - 103)			SW846 8270C
	72	(51 - 103)	1.2	(0-40)	SW846 8270C
1,2,4-Trichlorobenzene	62	(36 - 99)			SW846 8270C
	54	(36 - 99)	14	(0-40)	SW846 8270C

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
2-Fluorophenol	75	(54 - 105)
	72	(54 - 105)
Phenol-d5	79	(55 - 106)
	76	(55 - 106)
Nitrobenzene-d5	78	(58 - 108)
	76	(58 - 108)
2-Fluorobiphenyl	66	(53 - 97)
	54	(53 - 97)
2,4,6-Tribromophenol	76	(62 - 113)
	73	(62 - 113)
Terphenyl-d14	78	(55 - 109)

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #: D3K120128      Work Order #: F4V7P1AC-LCS      Matrix.....: WATER  
LCS Lot-Sample#: D3K140000-453                                    F4V7P1AD-LCSD

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
	77	(55 - 109)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

**LABORATORY CONTROL SAMPLE DATA REPORT**

## **GC/MS Semivolatiles**

Client Lot #....: D3K120128 Work Order #....: F4V7P1AC-LCS Matrix.....: WATER  
LCS Lot-Sample#: D3K140000-453 F4V7P1AD-LCSD  
Prep Date.....: 11/14/03 Analysis Date...: 12/10/03  
Prep Batch #:....: 3318453 Analysis Time...: 23:32  
Dilution Factor: 1

<u>PARAMETER</u>	<u>SPIKE</u>	<u>MEASURED</u>	<u>PERCENT</u>	<u>RPD</u>	<u>METHOD</u>
	<u>AMOUNT</u>	<u>AMOUNT</u>	<u>UNITS</u>		
Acenaphthene	100	72.7	ug/L	73	SW846 8270C
	100	67.8	ug/L	68	SW846 8270C
4-Chloro-3-methylphenol	150	115	ug/L	77	SW846 8270C
	150	115	ug/L	77	SW846 8270C
2-Chlorophenol	150	120	ug/L	80	SW846 8270C
	150	117	ug/L	78	SW846 8270C
1,4-Dichlorobenzene	100	63.3	ug/L	63	SW846 8270C
	100	53.2	ug/L	53	SW846 8270C
2,4-Dinitrotoluene	100	70.5	ug/L	71	SW846 8270C
	100	67.6	ug/L	68	SW846 8270C
4-Nitrophenol	150	101	ug/L	67	SW846 8270C
	150	93.6	ug/L	62	SW846 8270C
N-Nitrosodi-n-propyl- amine	100	73.2	ug/L	73	SW846 8270C
	100	70.7	ug/L	71	SW846 8270C
Pentachlorophenol	150	109	ug/L	73	SW846 8270C
	150	105	ug/L	70	4.0 SW846 8270C
Phenol	150	122	ug/L	81	SW846 8270C
	150	120	ug/L	80	2.1 SW846 8270C
Pyrene	100	72.5	ug/L	73	SW846 8270C
	100	71.7	ug/L	72	1.2 SW846 8270C
1,2,4-Trichloro- benzene	100	62.2	ug/L	62	SW846 8270C
	100	54.3	ug/L	54	14 SW846 8270C

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>	<u>LIMITS</u>
	<u>RECOVERY</u>		
2-Fluorophenol	75	(54 - 105)	
	72	(54 - 105)	
Phenol-d5	79	(55 - 106)	
	76	(55 - 106)	
Nitrobenzene-d5	78	(58 - 108)	
	76	(58 - 108)	
2-Fluorobiphenyl	66	(53 - 97)	
	54	(53 - 97)	
2,4,6-Tribromophenol	76	(62 - 113)	
	73	(62 - 113)	
Terphenyl-d14	78	(55 - 109)	

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #....: D3K120128      Work Order #....: F4V7P1AC-LCS      Matrix.....: WATER  
LCS Lot-Sample#: D3K140000-453                                    F4V7P1AD-LCSD

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
	77	(55 - 109)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

## METHOD BLANK REPORT

## GC Semivolatiles

Client Lot #....: D3K120128  
 MB Lot-Sample #: D3K170000-203  
 Analysis Date...: 12/13/03  
 Dilution Factor: 1

Work Order #....: F40V71AA  
 Prep Date.....: 11/17/03  
 Prep Batch #....: 3321203

Matrix.....: WATER  
 Analysis Time...: 06:57

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Aldrin	ND	0.050	ug/L	SW846 8081A
alpha-BHC	ND	0.050	ug/L	SW846 8081A
beta-BHC	ND	0.050	ug/L	SW846 8081A
delta-BHC	ND	0.050	ug/L	SW846 8081A
gamma-BHC (Lindane)	ND	0.050	ug/L	SW846 8081A
Chlordane (technical)	ND	0.50	ug/L	SW846 8081A
4,4'-DDD	ND	0.050	ug/L	SW846 8081A
4,4'-DDE	ND	0.050	ug/L	SW846 8081A
4,4'-DDT	ND	0.050	ug/L	SW846 8081A
Dieldrin	ND	0.050	ug/L	SW846 8081A
Endrin	ND	0.050	ug/L	SW846 8081A
Endrin aldehyde	ND	0.050	ug/L	SW846 8081A
Endosulfan I	ND	0.050	ug/L	SW846 8081A
Endosulfan II	ND	0.050	ug/L	SW846 8081A
Endosulfan sulfate	ND	0.050	ug/L	SW846 8081A
Heptachlor	ND	0.050	ug/L	SW846 8081A
Heptachlor epoxide	ND	0.050	ug/L	SW846 8081A
Methoxychlor	ND	0.10	ug/L	SW846 8081A
Toxaphene	ND	5.0	ug/L	SW846 8081A

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Decachlorobiphenyl	83	(29 - 125)
Tetrachloro-m-xylene	84	(40 - 115)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

## LABORATORY CONTROL SAMPLE EVALUATION REPORT

## GC Semivolatiles

Client Lot #...: D3K120128      Work Order #...: F40V71AC-LCS      Matrix.....: WATER  
 LCS Lot-Sample#: D3K170000-203      F40V71AD-LCSD  
 Prep Date.....: 11/17/03      Analysis Date...: 12/12/03  
 Prep Batch #...: 3321203      Analysis Time...: 22:52  
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>LIMITS</u>	<u>METHOD</u>
Aldrin	<b>104</b>	(53 - 122)			SW846 8081A
	<b>102</b>	(53 - 122)	1.8	(0-30)	SW846 8081A
gamma-BHC (Lindane)	<b>105</b>	(72 - 122)			SW846 8081A
	<b>107</b>	(72 - 122)	1.8	(0-30)	SW846 8081A
4,4'-DDT	<b>107</b>	(66 - 138)			SW846 8081A
	<b>108</b>	(66 - 138)	1.2	(0-30)	SW846 8081A
Dieldrin	<b>112</b>	(75 - 128)			SW846 8081A
	<b>113</b>	(75 - 128)	0.78	(0-30)	SW846 8081A
Endrin	<b>109</b>	(64 - 138)			SW846 8081A
	<b>110</b>	(64 - 138)	1.5	(0-30)	SW846 8081A
Heptachlor	<b>101</b>	(60 - 126)			SW846 8081A
	<b>101</b>	(60 - 126)	0.46	(0-30)	SW846 8081A

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Decachlorobiphenyl	<b>77</b>	(65 - 137)
Tetrachloro-m-xylene	<b>91</b>	(65 - 137)
	<b>89</b>	(40 - 115)
	<b>85</b>	(40 - 115)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

## LABORATORY CONTROL SAMPLE DATA REPORT

## GC Semivolatiles

Client Lot #....: D3K120128      Work Order #....: F40V71AC-LCS      Matrix.....: WATER  
 LCS Lot-Sample#: D3K170000-203      F40V71AD-LCSD  
 Prep Date.....: 11/17/03      Analysis Date...: 12/12/03  
 Prep Batch #....: 3321203      Analysis Time...: 22:52  
 Dilution Factor: 1

<u>PARAMETER</u>	<u>SPIKE</u>	<u>MEASURED</u>	<u>PERCENT</u>	<u>RPD</u>	<u>METHOD</u>
	<u>AMOUNT</u>	<u>AMOUNT</u>	<u>UNITS</u>		
Aldrin	0.500	0.520	ug/L	104	SW846 8081A
	0.500	0.511	ug/L	102	SW846 8081A
gamma-BHC (Lindane)	0.500	0.525	ug/L	105	SW846 8081A
	0.500	0.535	ug/L	107	SW846 8081A
4,4'-DDT	0.500	0.534	ug/L	107	SW846 8081A
	0.500	0.540	ug/L	108	SW846 8081A
Dieldrin	0.500	0.559	ug/L	112	SW846 8081A
	0.500	0.564	ug/L	113	SW846 8081A
Endrin	0.500	0.543	ug/L	109	SW846 8081A
	0.500	0.551	ug/L	110	SW846 8081A
Heptachlor	0.500	0.507	ug/L	101	SW846 8081A
	0.500	0.505	ug/L	101	SW846 8081A
<hr/>					
<u>SURROGATE</u>					
Decachlorobiphenyl			<u>PERCENT</u>	<u>RECOVERY</u>	
			<u>RECOVERY</u>	<u>LIMITS</u>	
			77	(65 - 137)	
Tetrachloro-m-xylene			91	(65 - 137)	
			89	(40 - 115)	
			85	(40 - 115)	

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #....: D3K120128      Work Order #....: F40WT1AA      Matrix.....: WATER  
MB Lot-Sample #: D3K170000-215  
Analysis Date...: 12/07/03      Prep Date.....: 11/17/03      Analysis Time..: 18:49  
Dilution Factor: 1      Prep Batch #: 3321215

PARAMETER	REPORTING			
	RESULT	LIMIT	UNITS	METHOD
Aroclor 1016	ND	1.0	ug/L	SW846 8082
Aroclor 1221	ND	1.0	ug/L	SW846 8082
Aroclor 1232	ND	1.0	ug/L	SW846 8082
Aroclor 1242	ND	1.0	ug/L	SW846 8082
Aroclor 1248	ND	1.0	ug/L	SW846 8082
Aroclor 1254	ND	1.0	ug/L	SW846 8082
Aroclor 1260	ND	1.0	ug/L	SW846 8082

  

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Tetrachloro-m-xylene	103	(52 - 160)
Decachlorobiphenyl	103	(37 - 144)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

**LABORATORY CONTROL SAMPLE EVALUATION REPORT**

## **GC Semivolatiles**

Client Lot #: D3K120128 Work Order #: F40WT1AC-LCS Matrix.....: WATER  
LCS Lot-Sample#: D3K170000-215 F40WT1AD-LCSD  
Prep Date.....: 11/17/03 Analysis Date...: 12/07/03  
Prep Batch #: 3321215 Analysis Time..: 19:11  
Dilution Factor: 1

PARAMETER	PERCENT	RECOVERY	RPD	METHOD
	RECOVERY	LIMITS	RPD	
Aroclor 1016	104	(56 - 124)		SW846 8082
	109	(56 - 124)	4.7	(0-30) SW846 8082
Aroclor 1260	115	(64 - 120)		SW846 8082
	118	(64 - 120)	2.9	(0-30) SW846 8082

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Tetrachloro-m-xylene	89 ,	(52 - 127)
	96	(52 - 127)
Decachlorobiphenyl	78	(61 - 128)
	81	(61 - 128)

**NOTE(S) :**

**Calculations are performed before rounding to avoid round-off errors in calculated results.**

**Bold print** denotes control parameters

## LABORATORY CONTROL SAMPLE DATA REPORT

## GC Semivolatiles

Client Lot #....: D3K120128      Work Order #....: F40WT1AC-LCS      Matrix.....: WATER  
 LCS Lot-Sample#: D3K170000-215      F40WT1AD-LCSD  
 Prep Date.....: 11/17/03      Analysis Date...: 12/07/03  
 Prep Batch #....: 3321215      Analysis Time..: 19:11  
 Dilution Factor: 1

<u>PARAMETER</u>	<u>SPIKE</u>	<u>MEASURED</u>		<u>PERCENT</u>	<u>RPD</u>	<u>METHOD</u>
	<u>AMOUNT</u>	<u>AMOUNT</u>	<u>UNITS</u>	<u>RECOVERY</u>		
<u>Aroclor 1016</u>	<b>2.00</b>	<b>2.09</b>	ug/L	<b>104</b>	4.7	<b>SW846 8082</b>
	<b>2.00</b>	<b>2.19</b>	ug/L	<b>109</b>		<b>SW846 8082</b>
<u>Aroclor 1260</u>	<b>2.00</b>	<b>2.29</b>	ug/L	<b>115</b>	2.9	<b>SW846 8082</b>
	<b>2.00</b>	<b>2.36</b>	ug/L	<b>118</b>		<b>SW846 8082</b>
<u>SURROGATE</u>				<u>PERCENT</u>	<u>RECOVERY</u>	
<u>Tetrachloro-m-xylene</u>				<u>RECOVERY</u>	<u>LIMITS</u>	
				<b>89</b>	(52 - 127)	
				<b>96</b>	(52 - 127)	
<u>Decachlorobiphenyl</u>				<b>78</b>	(61 - 128)	
				<b>81</b>	(61 - 128)	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

## METHOD BLANK REPORT

## GC Semivolatiles

Client Lot #....: D3K120128      Work Order #....: F42M71AA      Matrix.....: WATER  
 MB Lot-Sample #: D3K180000-194  
 Analysis Date...: 12/02/03      Prep Date.....: 11/18/03      Analysis Time..: 14:08  
 Dilution Factor: 1      Prep Batch #: 3322194

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Azinphos-methyl	ND	2.5	ug/L	SW846 8141A
Bolstar	ND	0.50	ug/L	SW846 8141A
Chlorpyrifos	ND	0.50	ug/L	SW846 8141A
Coumaphos	ND	0.50	ug/L	SW846 8141A
Demeton (total)	ND	1.0	ug/L	SW846 8141A
Diazinon	ND	0.50	ug/L	SW846 8141A
Dichlorvos	ND	0.50	ug/L	SW846 8141A
Dimethoate	ND	0.50	ug/L	SW846 8141A
Disulfoton	ND	0.50	ug/L	SW846 8141A
Ethoprop	ND	0.50	ug/L	SW846 8141A
Ethyl parathion	ND	0.50	ug/L	SW846 8141A
Famphur	ND	1.0	ug/L	SW846 8141A
Fensulfothion	ND	2.5	ug/L	SW846 8141A
Fenthion	ND	0.50	ug/L	SW846 8141A
Malathion	ND	1.2	ug/L	SW846 8141A
Merphos	ND	5.0	ug/L	SW846 8141A
Methyl parathion	ND	0.50	ug/L	SW846 8141A
Mevinphos	ND	6.2	ug/L	SW846 8141A
Naled	ND	10	ug/L	SW846 8141A
O,O,O-Triethylphosphoro-thioate	ND	0.50	ug/L	SW846 8141A
Phorate	ND	0.50	ug/L	SW846 8141A
Ronnel	ND	10	ug/L	SW846 8141A
Sulfotep	ND	0.50	ug/L	SW846 8141A
Thionazin	ND	0.50	ug/L	SW846 8141A
Tokuthion	ND	0.50	ug/L	SW846 8141A
Trichloronate	ND	0.50	ug/L	SW846 8141A
EPN	ND	0.50	ug/L	SW846 8141A
Demeton-O	ND	1.0	ug/L	SW846 8141A
Demeton-S	ND	1.0	ug/L	SW846 8141A
Tetrachlorvinphos (Stirop	ND	2.5	ug/L	SW846 8141A

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Chlormefos	90	(49 - 105)
Ethyl Pirimifos	89	(20 - 121)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

**LABORATORY CONTROL SAMPLE EVALUATION REPORT**

**GC Semivolatiles**

**Client Lot #....:** D3K120128      **Work Order #....:** F42M71AC      **Matrix.....:** WATER  
**LCS Lot-Sample#:** D3K180000-194  
**Prep Date.....:** 11/18/03      **Analysis Date...:** 12/02/03  
**Prep Batch #....:** 3322194      **Analysis Time..:** 14:41  
**Dilution Factor:** 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
Demeton (total)	74	(20 - 107)	SW846 8141A
Diazinon	82	(58 - 108)	SW846 8141A
Ethyl parathion	90	(62 - 118)	SW846 8141A
Malathion	72	(33 - 109)	SW846 8141A
Methyl parathion	85	(50 - 127)	SW846 8141A
Phorate	82	(54 - 101)	SW846 8141A

  

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Chlormefos	82	(49 - 105)
Ethyl Pirimifos	86	(20 - 121)

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

## LABORATORY CONTROL SAMPLE DATA REPORT

## GC Semivolatiles

Client Lot #...: D3K120128      Work Order #...: F42M71AC      Matrix.....: WATER  
**LCS Lot-Sample#:** D3K180000-194  
 Prep Date.....: 11/18/03      Analysis Date...: 12/02/03  
 Prep Batch #:...: 3322194      Analysis Time..: 14:41  
 Dilution Factor: 1

<u>PARAMETER</u>	<u>SPIKE</u>	<u>MEASURED</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>METHOD</u>
Demeton (total)	4.00	2.96	ug/L	74	SW846 8141A
Diazinon	4.00	3.30	ug/L	82	SW846 8141A
Ethyl parathion	4.00	3.60	ug/L	90	SW846 8141A
Malathion	4.00	2.90	ug/L	72	SW846 8141A
Methyl parathion	4.00	3.39	ug/L	85	SW846 8141A
Phorate	4.00	3.29	ug/L	82	SW846 8141A

  

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Chlormefos	82	(49 - 105)
Ethyl Pirimifos	86	(20 - 121)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Lot-Sample #....: D3K120128      Work Order #....: F4REN1AJ      Matrix.....: WATER  
 MS Lot-Sample #: D3K130311-004  
 Date Sampled...: 11/12/03 01:00 Date Received...: 11/13/03  
 Prep Date.....: 11/18/03      Analysis Date...: 12/02/03  
 Prep Batch #....: 3322194  
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT</u>	<u>RECOVERY</u>	<u>METHOD</u>
Demeton (total)	75	(20 - 107)	SW846 8141A
Diazinon	84	(58 - 108)	SW846 8141A
Ethyl parathion	94	(62 - 118)	SW846 8141A
Malathion	83	(33 - 109)	SW846 8141A
Methyl parathion	89	(50 - 127)	SW846 8141A
Phorate	85	(54 - 101)	SW846 8141A
<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>	<u>LIMITS</u>
Chlormefos	75	(49 - 105)	
Ethyl Pirimifos	83	(20 - 121)	

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

**MATRIX SPIKE SAMPLE DATA REPORT**

**GC Semivolatiles**

Lot-Sample #....: D3K120128      Work Order #....: F4REN1AJ      Matrix.....: WATER  
 MS Lot-Sample #: D3K130311-004  
 Date Sampled...: 11/12/03 01:00 Date Received...: 11/13/03  
 Prep Date.....: 11/18/03      Analysis Date...: 12/02/03  
 Prep Batch #:....: 3322194  
 Dilution Factor: 1

PARAMETER	SAMPLE	SPIKE	MEASRD	PERCENT RECOVERY	METHOD
	AMOUNT	AMT	AMOUNT	UNITS	
Demeton (total)	ND	<b>4.22</b>	<b>3.16</b>	ug/L	75 SW846 8141A
Diazinon	ND	<b>4.22</b>	<b>3.56</b>	ug/L	84 SW846 8141A
Ethyl parathion	ND	<b>4.22</b>	<b>3.97</b>	ug/L	94 SW846 8141A
Malathion	ND	<b>4.22</b>	<b>3.50</b>	ug/L	83 SW846 8141A
Methyl parathion	ND	<b>4.22</b>	<b>3.74</b>	ug/L	89 SW846 8141A
Phorate	ND	<b>4.22</b>	<b>3.60</b>	ug/L	85 SW846 8141A

  

SURROGATE	SAMPLE	SPIKE	MEASRD	PERCENT RECOVERY	METHOD
	AMOUNT	AMT	AMOUNT	UNITS	
Chlormefos	ND	<b>4.22</b>	<b>3.16</b>	ug/L	75 (49 - 105)
Ethyl Pirimifos	ND	<b>4.22</b>	<b>3.56</b>	ug/L	83 (20 - 121)

**NOTE(S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

## METHOD BLANK REPORT

## TOTAL Metals

Client Lot #: D3K120128

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Mercury	ND	0.20	ug/L	SW846 7470A	11/18/03	F4QF21AA
		Dilution Factor: 1				
		Analysis Time...: 18:09				
Aluminum	ND	100	ug/L	SW846 6010B	11/19-11/21/03	F4R8N1AA
		Dilution Factor: 1				
		Analysis Time...: 22:52				
Antimony	ND	10	ug/L	SW846 6010B	11/19-11/20/03	F4R8N1AC
		Dilution Factor: 1				
		Analysis Time...: 17:53				
Arsenic	ND	15	ug/L	SW846 6010B	11/19-11/20/03	F4R8N1AD
		Dilution Factor: 1				
		Analysis Time...: 17:53				
Barium	1.3 B	10	ug/L	SW846 6010B	11/19-11/20/03	F4R8N1AE
		Dilution Factor: 1				
		Analysis Time...: 17:53				
Beryllium	ND	5.0	ug/L	SW846 6010B	11/19-11/20/03	F4R8N1AF
		Dilution Factor: 1				
		Analysis Time...: 17:53				
Boron	9.6 B	100	ug/L	SW846 6010B	11/19-11/21/03	F4R8N1DH
		Dilution Factor: 1				
		Analysis Time...: 22:52				
Cadmium	ND	5.0	ug/L	SW846 6010B	11/19-11/20/03	F4R8N1AG
		Dilution Factor: 1				
		Analysis Time...: 17:53				
Chromium	ND	10	ug/L	SW846 6010B	11/19-11/20/03	F4R8N1A1
		Dilution Factor: 1				
		Analysis Time...: 17:53				
Cobalt	ND	10	ug/L	SW846 6010B	11/19-11/20/03	F4R8N1AJ
		Dilution Factor: 1				
		Analysis Time...: 17:53				

(Continued on next page)

## METHOD BLANK REPORT

## TOTAL Metals

Client Lot #...: D3K120128

Matrix.....: WATER

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
		LIMIT	UNITS				
Copper	ND	10	ug/L		SW846 6010B	11/19-11/20/03	F4R8N1AK
		Dilution Factor: 1					
		Analysis Time...: 17:53					
Iron	ND	100	ug/L		SW846 6010B	11/19-11/21/03	F4R8N1AL
		Dilution Factor: 1					
		Analysis Time...: 22:52					
Lead	ND	3.0	ug/L		SW846 6010B	11/19-11/20/03	F4R8N1AM
		Dilution Factor: 1					
		Analysis Time...: 17:53					
Manganese	ND	10	ug/L		SW846 6010B	11/19-11/21/03	F4R8N1AP
		Dilution Factor: 1					
		Analysis Time...: 22:52					
Molybdenum	ND	20	ug/L		SW846 6010B	11/19-11/20/03	F4R8N1DJ
		Dilution Factor: 1					
		Analysis Time...: 17:53					
Nickel	ND	40	ug/L		SW846 6010B	11/19-11/20/03	F4R8N1AQ
		Dilution Factor: 1					
		Analysis Time...: 17:53					
Selenium	ND	15	ug/L		SW846 6010B	11/19-11/20/03	F4R8N1AT
		Dilution Factor: 1					
		Analysis Time...: 17:53					
Silver	1.4 B	10	ug/L		SW846 6010B	11/19-11/20/03	F4R8N1AU
		Dilution Factor: 1					
		Analysis Time...: 17:53					
Thallium	ND	10	ug/L		SW846 6010B	11/19-11/20/03	F4R8N1AW
		Dilution Factor: 1					
		Analysis Time...: 17:53					
Zinc	ND	20	ug/L		SW846 6010B	11/19-11/20/03	F4R8N1AO
		Dilution Factor: 1					
		Analysis Time...: 17:53					

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

**LABORATORY CONTROL SAMPLE EVALUATION REPORT**

## **TOTAL Metals**

**Lot-Sample #....: D3K120128**

**Matrix.....: WATER**

PARAMETER	PERCENT	RECOVERY	RPD	METHOD	PREPARATION-	PREP-
	RECOVERY	LIMITS	RPD		ANALYSIS DATE	BATCH #
Aluminum	97	(86 - 108)		SW846 6010B	11/19-11/21/03	3317761
	100	(86 - 108)	2.8 (0-20)	SW846 6010B	11/19-11/21/03	3317761
		Dilution Factor: 1			Analysis Time...: 22:57	
Antimony	94	(88 - 108)		SW846 6010B	11/19-11/20/03	3317761
	99	(88 - 108)	5.4 (0-20)	SW846 6010B	11/19-11/20/03	3317761
		Dilution Factor: 1			Analysis Time...: 17:57	
Arsenic	96	(89 - 109)		SW846 6010B	11/19-11/20/03	3317761
	98	(89 - 109)	2.5 (0-20)	SW846 6010B	11/19-11/20/03	3317761
		Dilution Factor: 1			Analysis Time...: 17:57	
Barium	105	(93 - 113)		SW846 6010B	11/19-11/20/03	3317761
	107	(93 - 113)	2.4 (0-20)	SW846 6010B	11/19-11/20/03	3317761
		Dilution Factor: 1			Analysis Time...: 17:57	
Beryllium	94	(88 - 112)		SW846 6010B	11/19-11/20/03	3317761
	97	(88 - 112)	3.4 (0-20)	SW846 6010B	11/19-11/20/03	3317761
		Dilution Factor: 1			Analysis Time...: 17:57	
Boron	96	(89 - 110)		SW846 6010B	11/19-11/21/03	3317761
	100	(89 - 110)	4.3 (0-20)	SW846 6010B	11/19-11/21/03	3317761
		Dilution Factor: 1			Analysis Time...: 22:57	
Cadmium	96	(89 - 110)		SW846 6010B	11/19-11/20/03	3317761
	100	(89 - 110)	3.1 (0-20)	SW846 6010B	11/19-11/20/03	3317761
		Dilution Factor: 1			Analysis Time...: 17:57	
Chromium	95	(89 - 112)		SW846 6010B	11/19-11/20/03	3317761
	98	(89 - 112)	2.9 (0-20)	SW846 6010B	11/19-11/20/03	3317761
		Dilution Factor: 1			Analysis Time...: 17:57	
Cobalt	95	(86 - 107)		SW846 6010B	11/19-11/20/03	3317761
	97	(86 - 107)	2.7 (0-20)	SW846 6010B	11/19-11/20/03	3317761
		Dilution Factor: 1			Analysis Time...: 17:57	
Copper	97	(86 - 110)		SW846 6010B	11/19-11/20/03	3317761
	100	(86 - 110)	2.4 (0-20)	SW846 6010B	11/19-11/20/03	3317761
		Dilution Factor: 1			Analysis Time...: 17:57	

(Continued on next page)

**LABORATORY CONTROL SAMPLE EVALUATION REPORT**

**TOTAL Metals**

**Lot-Sample #....: D3K120128**

**Matrix.....: WATER**

<b>PARAMETER</b>	<b>PERCENT</b>	<b>RECOVERY</b>	<b>RPD</b>	<b>METHOD</b>	<b>PREPARATION-</b>	<b>PREP-</b>
	<b>RECOVERY</b>	<b>LIMITS</b>	<b>RPD</b>		<b>ANALYSIS DATE</b>	<b>BATCH #</b>
<b>Iron</b>	97	(88 - 110)		SW846 6010B	11/19-11/21/03	3317761
	99	(88 - 110)	2.5	(0-20)	SW846 6010B	11/19-11/21/03
Dilution Factor: 1				Analysis Time...: 22:57		
<b>Lead</b>	98	(91 - 111)		SW846 6010B	11/19-11/20/03	3317761
	100	(91 - 111)	1.9	(0-20)	SW846 6010B	11/19-11/20/03
Dilution Factor: 1				Analysis Time...: 17:57		
<b>Manganese</b>	98	(90 - 110)		SW846 6010B	11/19-11/21/03	3317761
	100	(90 - 110)	2.5	(0-20)	SW846 6010B	11/19-11/21/03
Dilution Factor: 1				Analysis Time...: 22:57		
<b>Molybdenum</b>	91	(83 - 109)		SW846 6010B	11/19-11/20/03	3317761
	96	(83 - 109)	6.1	(0-20)	SW846 6010B	11/19-11/20/03
Dilution Factor: 1				Analysis Time...: 17:57		
<b>Nickel</b>	99	(90 - 110)		SW846 6010B	11/19-11/20/03	3317761
	101	(90 - 110)	2.3	(0-20)	SW846 6010B	11/19-11/20/03
Dilution Factor: 1				Analysis Time...: 17:57		
<b>Selenium</b>	97	(88 - 110)		SW846 6010B	11/19-11/20/03	3317761
	99	(88 - 110)	2.1	(0-20)	SW846 6010B	11/19-11/20/03
Dilution Factor: 1				Analysis Time...: 17:57		
<b>Silver</b>	102	(85 - 114)		SW846 6010B	11/19-11/20/03	3317761
	104	(85 - 114)	2.1	(0-20)	SW846 6010B	11/19-11/20/03
Dilution Factor: 1				Analysis Time...: 17:57		
<b>Thallium</b>	97	(88 - 108)		SW846 6010B	11/19-11/20/03	3317761
	99	(88 - 108)	2.6	(0-20)	SW846 6010B	11/19-11/20/03
Dilution Factor: 1				Analysis Time...: 17:57		
<b>Zinc</b>	94	(85 - 110)		SW846 6010B	11/19-11/20/03	3317761
	96	(85 - 110)	2.0	(0-20)	SW846 6010B	11/19-11/20/03
Dilution Factor: 1				Analysis Time...: 17:57		

**NOTE(S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

**LABORATORY CONTROL SAMPLE DATA REPORT**

**TOTAL Metals**

Lot-Sample #....: D3K120128

Matrix.....: WATER

PARAMETER	SPIKE	MEASURED	UNITS	PERCNT			METHOD	PREPARATION-	PREP
	AMOUNT	AMOUNT		RECVRY	RPD	Analysis Time...:		ANALYSIS DATE	BATCH #
Aluminum	2000	1950	ug/L	97	SW846 6010B	22:57	11/19-11/21/03	3317761	
	2000	2000	ug/L	100	2.8	SW846 6010B	11/19-11/21/03	3317761	
			Dilution Factor: 1						
Antimony	500	468	ug/L	94	SW846 6010B	11/19-11/20/03	3317761		
	500	494	ug/L	99	5.4	SW846 6010B	11/19-11/20/03	3317761	
			Dilution Factor: 1			Analysis Time...: 17:57			
Arsenic	2000	1920	ug/L	96	SW846 6010B	11/19-11/20/03	3317761		
	2000	1970	ug/L	98	2.5	SW846 6010B	11/19-11/20/03	3317761	
			Dilution Factor: 1			Analysis Time...: 17:57			
Barium	2000	2090	ug/L	105	SW846 6010B	11/19-11/20/03	3317761		
	2000	2140	ug/L	107	2.4	SW846 6010B	11/19-11/20/03	3317761	
			Dilution Factor: 1			Analysis Time...: 17:57			
Beryllium	50.0	47.0	ug/L	94	SW846 6010B	11/19-11/20/03	3317761		
	50.0	48.7	ug/L	97	3.4	SW846 6010B	11/19-11/20/03	3317761	
			Dilution Factor: 1			Analysis Time...: 17:57			
Boron	1000	956	ug/L	96	SW846 6010B	11/19-11/21/03	3317761		
	1000	998	ug/L	100	4.3	SW846 6010B	11/19-11/21/03	3317761	
			Dilution Factor: 1			Analysis Time...: 22:57			
Cadmium	50.0	48.2	ug/L	96	SW846 6010B	11/19-11/20/03	3317761		
	50.0	49.8	ug/L	100	3.1	SW846 6010B	11/19-11/20/03	3317761	
			Dilution Factor: 1			Analysis Time...: 17:57			
Chromium	200	189	ug/L	95	SW846 6010B	11/19-11/20/03	3317761		
	200	195	ug/L	98	2.9	SW846 6010B	11/19-11/20/03	3317761	
			Dilution Factor: 1			Analysis Time...: 17:57			
Cobalt	500	474	ug/L	95	SW846 6010B	11/19-11/20/03	3317761		
	500	487	ug/L	97	2.7	SW846 6010B	11/19-11/20/03	3317761	
			Dilution Factor: 1			Analysis Time...: 17:57			
Copper	250	243	ug/L	97	SW846 6010B	11/19-11/20/03	3317761		
	250	249	ug/L	100	2.4	SW846 6010B	11/19-11/20/03	3317761	
			Dilution Factor: 1			Analysis Time...: 17:57			

(Continued on next page)

**LABORATORY CONTROL SAMPLE DATA REPORT**

**TOTAL Metals**

**Lot-Sample #....: D3K120128**

**Matrix.....: WATER**

<b>PARAMETER</b>	<b>SPIKE</b>	<b>MEASURED</b>		<b>PERCNT</b>			<b>METHOD</b>	<b>PREPARATION-</b>	<b>PREP</b>
	<b>AMOUNT</b>	<b>AMOUNT</b>	<b>UNITS</b>	<b>RECVRY</b>	<b>RPD</b>	<b>ANALYSIS DATE</b>			<b>BATCH #</b>
Iron	1000	968	ug/L	97		SW846 6010B		11/19-11/21/03	3317761
	1000	992	ug/L	99	2.5	SW846 6010B		11/19-11/21/03	3317761
	Dilution Factor: 1 Analysis Time...: 22:57								
Lead	500	492	ug/L	98		SW846 6010B		11/19-11/20/03	3317761
	500	501	ug/L	100	1.9	SW846 6010B		11/19-11/20/03	3317761
	Dilution Factor: 1 Analysis Time...: 17:57								
Manganese	500	488	ug/L	98		SW846 6010B		11/19-11/21/03	3317761
	500	501	ug/L	100	2.5	SW846 6010B		11/19-11/21/03	3317761
	Dilution Factor: 1 Analysis Time...: 22:57								
Molybdenum	1000	907	ug/L	91		SW846 6010B		11/19-11/20/03	3317761
	1000	964	ug/L	96	6.1	SW846 6010B		11/19-11/20/03	3317761
	Dilution Factor: 1 Analysis Time...: 17:57								
Nickel	500	493	ug/L	99		SW846 6010B		11/19-11/20/03	3317761
	500	504	ug/L	101	2.3	SW846 6010B		11/19-11/20/03	3317761
	Dilution Factor: 1 Analysis Time...: 17:57								
Selenium	2000	1950	ug/L	97		SW846 6010B		11/19-11/20/03	3317761
	2000	1990	ug/L	99	2.1	SW846 6010B		11/19-11/20/03	3317761
	Dilution Factor: 1 Analysis Time...: 17:57								
Silver	50.0	50.8	ug/L	102		SW846 6010B		11/19-11/20/03	3317761
	50.0	51.9	ug/L	104	2.1	SW846 6010B		11/19-11/20/03	3317761
	Dilution Factor: 1 Analysis Time...: 17:57								
Thallium	2000	1930	ug/L	97		SW846 6010B		11/19-11/20/03	3317761
	2000	1980	ug/L	99	2.6	SW846 6010B		11/19-11/20/03	3317761
	Dilution Factor: 1 Analysis Time...: 17:57								
Zinc	500	468	ug/L	94		SW846 6010B		11/19-11/20/03	3317761
	500	478	ug/L	96	2.0	SW846 6010B		11/19-11/20/03	3317761
	Dilution Factor: 1 Analysis Time...: 17:57								

**NOTE(S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #....: D3K120128 Matrix.....: WATER

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION-</u>	<u>ANALYSIS DATE</u>	<u>WORK ORDER #</u>
LCS Lot-Sample#:	D3K130000-398	Prep Batch #....:	3317398			
Mercury	95	(84 - 114)	SW846 7470A	11/18/03	F4QF21AC	
		Dilution Factor: 1		Analysis Time..:	18:11	

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

## LABORATORY CONTROL SAMPLE DATA REPORT

## TOTAL Metals

Client Lot #....: D3K120128

Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	PREPARATION- METHOD	WORK ANALYSIS DATE	ORDER #
LCS Lot-Sample#:	D3K130000-398				Prep Batch #....:	3317398	
Mercury	5.00	4.76	ug/L	95	SW846 7470A	11/18/03	F4QF21AC
	Dilution Factor: 1				Analysis Time...:	18:11	

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: D3K120128

Matrix.....: WATER

Date Sampled...: 11/11/03 12:00 Date Received..: 11/12/03

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: D3K120128-001 Prep Batch #...: 3317398							
Mercury	98	(84 - 114)		SW846 7470A		11/18/03	F4L7C1CJ
	99	(84 - 114) 1.6 (0-10)		SW846 7470A		11/18/03	F4L7C1CK
Dilution Factor: 1							
Analysis Time...: 18:15							

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

## MATRIX SPIKE SAMPLE DATA REPORT

## TOTAL Metals

Client Lot #...: D3K120128

Matrix.....: WATER

Date Sampled...: 11/11/03 12:00 Date Received..: 11/12/03

SAMPLE PARAMETER	SPIKE AMOUNT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: D3K120128-001 Prep Batch #...: 3317398								
Mercury								
ND	5.00	4.88	ug/L	98		SW846 7470A	11/18/03	F4L7C1CJ
ND	5.00	4.96	ug/L	99	1.6	SW846 7470A	11/18/03	F4L7C1CK
Dilution Factor: 1								
Analysis Time...: 18:15								

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: D3K120128

Matrix.....: WATER

Date Sampled...: 11/07/03 14:00 Date Received..: 11/07/03

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
<b>MS Lot-Sample #: D3K070365-001 Prep Batch #...: 3317761</b>							
Aluminum	NC,MSB	(83 - 119)			SW846 6010B	11/19-11/21/03	F4E321C1
	NC,MSB	(83 - 119)	(0-25)		SW846 6010B	11/19-11/21/03	F4E321C2
Dilution Factor: 1							
Analysis Time...: 23:41							
Antimony	38 N	(81 - 124)			SW846 6010B	11/19-11/20/03	F4E321C3
	44 N	(81 - 124) 13	(0-25)		SW846 6010B	11/19-11/20/03	F4E321C4
Dilution Factor: 1							
Analysis Time...: 18:49							
Arsenic	95	(84 - 124)			SW846 6010B	11/19-11/20/03	F4E321C5
	95	(84 - 124) 0.51	(0-25)		SW846 6010B	11/19-11/20/03	F4E321C6
Dilution Factor: 1							
Analysis Time...: 18:49							
Barium	92	(85 - 120)			SW846 6010B	11/19-11/20/03	F4E321C7
	95	(85 - 120) 2.4	(0-25)		SW846 6010B	11/19-11/20/03	F4E321C8
Dilution Factor: 1							
Analysis Time...: 18:49							
Beryllium	84	(79 - 121)			SW846 6010B	11/19-11/20/03	F4E321C9
	84	(79 - 121) 0.06	(0-25)		SW846 6010B	11/19-11/20/03	F4E321DA
Dilution Factor: 1							
Analysis Time...: 18:49							
Boron	93	(87 - 113)			SW846 6010B	11/19-11/21/03	F4E321EH
	101	(87 - 113) 6.1	(0-25)		SW846 6010B	11/19-11/21/03	F4E321EJ
Dilution Factor: 1							
Analysis Time...: 23:41							
Cadmium	85	(82 - 119)			SW846 6010B	11/19-11/20/03	F4E321DC
	85	(82 - 119) 0.09	(0-25)		SW846 6010B	11/19-11/20/03	F4E321DD
Dilution Factor: 1							
Analysis Time...: 18:49							
Chromium	84	(73 - 135)			SW846 6010B	11/19-11/20/03	F4E321EE
	63	(73 - 135) 1.2	(0-25)		SW846 6010B	11/19-11/20/03	F4E321EF
Dilution Factor: 1							
Analysis Time...: 18:49							

(Continued on next page)

**MATRIX SPIKE SAMPLE EVALUATION REPORT**

**TOTAL Metals**

**Client Lot #....: D3K120128**

**Date Sampled...: 11/07/03 14:00 Date Received...: 11/07/03**

**Matrix.....: WATER**

PARAMETER	PERCENT	RECOVERY	RPD	METHOD	PREPARATION-	WORK
	RECOVERY	LIMITS	RPD		ANALYSIS DATE	ORDER #
Cobalt	86	(82 - 119)		SW846 6010B	11/19-11/20/03	F4E321DG
	87	(82 - 119) 0.12 (0-25)		SW846 6010B	11/19-11/20/03	F4E321DH
Copper	103	(82 - 129)		SW846 6010B	11/19-11/20/03	F4E321DJ
	104	(82 - 129) 0.55 (0-25)		SW846 6010B	11/19-11/20/03	F4E321DK
Iron	NC,MSB	(52 - 155)		SW846 6010B	11/19-11/21/03	F4E321DL
	NC,MSB	(52 - 155) (0-25)		SW846 6010B	11/19-11/21/03	F4E321DM
Lead	90	(89 - 121)		SW846 6010B	11/19-11/20/03	F4E321DN
	91	(89 - 121) 0.69 (0-25)		SW846 6010B	11/19-11/20/03	F4E321DP
Manganese	NC,MSB	(79 - 121)		SW846 6010B	11/19-11/21/03	F4E321DT
	NC,MSB	(79 - 121) (0-25)		SW846 6010B	11/19-11/21/03	F4E321DU
Molybdenum	81 N	(83 - 109)		SW846 6010B	11/19-11/20/03	F4E321EL
	83	(83 - 109) 2.7 (0-25)		SW846 6010B	11/19-11/20/03	F4E321EM
Nickel	86	(84 - 120)		SW846 6010B	11/19-11/20/03	F4E321DV
	86	(84 - 120) 0.54 (0-25)		SW846 6010B	11/19-11/20/03	F4E321DW
Selenium	105	(71 - 140)		SW846 6010B	11/19-11/20/03	F4E321D1
	106	(71 - 140) 0.74 (0-25)		SW846 6010B	11/19-11/20/03	F4E321D2
Silver	103	(75 - 141)		SW846 6010B	11/19-11/20/03	F4E321D3
	102	(75 - 141) 0.65 (0-25)		SW846 6010B	11/19-11/20/03	F4E321D4

(Continued on next page)

## MATRIX SPIKE SAMPLE EVALUATION REPORT

## TOTAL Metals

Client Lot #....: D3K120128

Matrix.....: WATER

Date Sampled...: 11/07/03 14:00 Date Received..: 11/07/03

PARAMETER	PERCENT	RECOVERY	RPD	METHOD	PREPARATION-	WORK
	RECOVERY	LIMITS	RPD		ANALYSIS DATE	ORDER #
Thallium	93	(90 - 116)		SW846 6010B	11/19-11/20/03	F4E321D7
	93	(90 - 116) 0.42 (0-25)		SW846 6010B	11/19-11/20/03	F4E321D8
Zinc	90	(60 - 137)		SW846 6010B	11/19-11/20/03	F4E321EC
	90	(60 - 137) 0.11 (0-25)		SW846 6010B	11/19-11/20/03	F4E321ED

Dilution Factor: 1  
Analysis Time..: 18:49

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD were not calculated because the sample amount was greater than four times the spike amount.

N Spiked analyte recovery is outside stated control limits.

**MATRIX SPIKE SAMPLE DATA REPORT**

**TOTAL Metals**

Client Lot #...: D3K120128

Matrix.....: WATER

Date Sampled...: 11/07/03 14:00 Date Received..: 11/07/03

SAMPLE PARAMETER	SPike AMOUNT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
<b>MS Lot-Sample #: D3K070365-001 Prep Batch #...: 3317761</b>								
<b>Aluminum</b>								
	100000	2000	ug/L			SW846 6010B	11/19-11/21/03	F4E321C1
				Qualifiers: NC,MSB				
	100000	2000	ug/L			SW846 6010B	11/19-11/21/03	F4E321C2
				Qualifiers: NC,MSB				
				Dilution Factor: 1				
				Analysis Time...: 23:41				
<b>Antimony</b>								
	ND	500	193 N	ug/L	38	SW846 6010B	11/19-11/20/03	F4E321C3
	ND	500	220 N	ug/L	44	13 SW846 6010B	11/19-11/20/03	F4E321C4
				Dilution Factor: 1				
				Analysis Time...: 18:49				
<b>Arsenic</b>								
	14	2000	1910	ug/L	95	SW846 6010B	11/19-11/20/03	F4E321C5
	14	2000	1920	ug/L	95	0.51 SW846 6010B	11/19-11/20/03	F4E321C6
				Dilution Factor: 1				
				Analysis Time...: 18:49				
<b>Barium</b>								
	970	2000	2800	ug/L	92	SW846 6010B	11/19-11/20/03	F4E321C7
	970	2000	2870	ug/L	95	2.4 SW846 6010B	11/19-11/20/03	F4E321C8
				Dilution Factor: 1				
				Analysis Time...: 18:49				
<b>Beryllium</b>								
	20	50.0	62.0	ug/L	84	SW846 6010B	11/19-11/20/03	F4E321C9
	20	50.0	61.9	ug/L	84	0.06 SW846 6010B	11/19-11/20/03	F4E321DA
				Dilution Factor: 1				
				Analysis Time...: 18:49				
<b>Boron</b>								
	290	1000	1220	ug/L	93	SW846 6010B	11/19-11/21/03	F4E321EH
	290	1000	1300	ug/L	101	6.1 SW846 6010B	11/19-11/21/03	F4E321EJ
				Dilution Factor: 1				
				Analysis Time...: 23:41				
<b>Cadmium</b>								
	10	50.0	52.9	ug/L	85	SW846 6010B	11/19-11/20/03	F4E321DC
	10	50.0	52.9	ug/L	85	0.09 SW846 6010B	11/19-11/20/03	F4E321DD
				Dilution Factor: 1				
				Analysis Time...: 18:49				

(Continued on next page)

**MATRIX SPIKE SAMPLE DATA REPORT**

**TOTAL Metals**

Client Lot #....: D3K120128

Matrix.....: WATER

Date Sampled...: 11/07/03 14:00 Date Received..: 11/07/03

PARAMETER	SAMPLE	SPIKE	MEASRD	PERCNT			PREPARATION-	WORK
	AMOUNT	AMT	AMOUNT	UNITS	RECVRY	RPD		
<b>Chromium</b>								
	45	200	213	ug/L	84		SW846 6010B	11/19-11/20/03 F4E321EE
	45	200	211	ug/L	83	1.2	SW846 6010B	11/19-11/20/03 F4E321EF
	Dilution Factor: 1							
	Analysis Time...: 18:49							
<b>Cobalt</b>								
	190	500	624	ug/L	86		SW846 6010B	11/19-11/20/03 F4E321DG
	190	500	625	ug/L	87	0.12	SW846 6010B	11/19-11/20/03 F4E321DH
	Dilution Factor: 1							
	Analysis Time...: 18:49							
<b>Copper</b>								
	140	250	399	ug/L	103		SW846 6010B	11/19-11/20/03 F4E321DJ
	140	250	401	ug/L	104	0.55	SW846 6010B	11/19-11/20/03 F4E321DK
	Dilution Factor: 1							
	Analysis Time...: 18:49							
<b>Iron</b>								
	52000	1000	62400	ug/L			SW846 6010B	11/19-11/21/03 F4E321DL
	Qualifiers: NC,MSB							
	52000	1000	61900	ug/L			SW846 6010B	11/19-11/21/03 F4E321DM
	Qualifiers: NC,MSB							
	Dilution Factor: 1							
	Analysis Time...: 23:41							
<b>Lead</b>								
	130	500	577	ug/L	90		SW846 6010B	11/19-11/20/03 F4E321DN
	130	500	581	ug/L	91	0.69	SW846 6010B	11/19-11/20/03 F4E321DP
	Dilution Factor: 1							
	Analysis Time...: 18:49							
<b>Manganese</b>								
	17000	500	18800	ug/L			SW846 6010B	11/19-11/21/03 F4E321DT
	Qualifiers: NC,MSB							
	17000	500	19200	ug/L			SW846 6010B	11/19-11/21/03 F4E321DU
	Qualifiers: NC,MSB							
	Dilution Factor: 1							
	Analysis Time...: 23:41							
<b>Molybdenum</b>								
	10	1000	820 N	ug/L	81		SW846 6010B	11/19-11/20/03 F4E321EL
	10	1000	842	ug/L	83	2.7	SW846 6010B	11/19-11/20/03 F4E321EM
	Dilution Factor: 1							
	Analysis Time...: 18:49							

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

**TOTAL Metals**

Client Lot #...: D3K120128

Matrix.....: WATER

Date Sampled...: 11/07/03 14:00 Date Received..: 11/07/03

PARAMETER	SAMPLE	SPIKE	MEASRD	PERCNT			PREPARATION-	WORK	
	AMOUNT	AMT	AMOUNT	UNITS	RECVRY	RPD			
<b>Nickel</b>									
	210	500	636	ug/L	86		SW846	6010B	11/19-11/20/03 F4E321DV
	210	500	640	ug/L	86	0.54	SW846	6010B	11/19-11/20/03 F4E321DW
	Dilution Factor: 1								
	Analysis Time...: 18:49								
<b>Selenium</b>									
	34	2000	2140	ug/L	105		SW846	6010B	11/19-11/20/03 F4E321D1
	34	2000	2160	ug/L	106	0.74	SW846	6010B	11/19-11/20/03 F4E321D2
	Dilution Factor: 1								
	Analysis Time...: 18:49								
<b>Silver</b>									
	5.1	50.0	56.5	ug/L	103		SW846	6010B	11/19-11/20/03 F4E321D3
	5.1	50.0	56.2	ug/L	102	0.65	SW846	6010B	11/19-11/20/03 F4E321D4
	Dilution Factor: 1								
	Analysis Time...: 18:49								
<b>Thallium</b>									
	ND	2000	1850	ug/L	93		SW846	6010B	11/19-11/20/03 F4E321D7
	ND	2000	1860	ug/L	93	0.42	SW846	6010B	11/19-11/20/03 F4E321D8
	Dilution Factor: 1								
	Analysis Time...: 18:49								
<b>Zinc</b>									
	1000	500	1460	ug/L	90		SW846	6010B	11/19-11/20/03 F4E321EC
	1000	500	1450	ug/L	90	0.11	SW846	6010B	11/19-11/20/03 F4E321ED
	Dilution Factor: 1								
	Analysis Time...: 18:49								

**NOTE (S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD were not calculated because the sample amount was greater than four times the spike amount.

N Spiked analyte recovery is outside stated control limits.

## METHOD BLANK REPORT

## General Chemistry

Client Lot #: D3K120128

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>			<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
		<u>LIMIT</u>	<u>UNITS</u>				
Chemical Oxygen Demand (COD)		Work Order #:	F5G561AA	MB Lot-Sample #:	D3K230000-118		
	ND	20	mg/L		MCAWW 410.4	11/23/03	3327118
		Dilution Factor:	1				
		Analysis Time...:	13:40				
Chloride		Work Order #:	F4RKQ1AA	MB Lot-Sample #:	D3K130000-591		
	ND	3.0	mg/L		MCAWW 300.0A	11/12/03	3317591
		Dilution Factor:	1				
		Analysis Time...:	12:54				
Fecal Coliform		Work Order #:	F403L1AA	MB Lot-Sample #:	D3K170000-262		
	ND	1.0	CFU/100m		SM18 9222D Fecal	11/12/03	3321262
		Dilution Factor:	1				
		Analysis Time...:	11:00				
Fluoride		Work Order #:	F4RHV1AA	MB Lot-Sample #:	D3K130000-590		
	ND	1.0	mg/L		MCAWW 300.0A	11/12/03	3317590
		Dilution Factor:	1				
		Analysis Time...:	12:54				
Nitrate		Work Order #:	F4RNA1AA	MB Lot-Sample #:	D3K130000-593		
	ND	0.50	mg/L		MCAWW 300.0A	11/12/03	3317593
		Dilution Factor:	1				
		Analysis Time...:	12:54				
Nitrite		Work Order #:	F4RLP1AA	MB Lot-Sample #:	D3K130000-594		
	ND	0.50	mg/L		MCAWW 300.0A	11/12/03	3317594
		Dilution Factor:	1				
		Analysis Time...:	12:54				
Specific Conductance		Work Order #:	F42QA1AA	MB Lot-Sample #:	D3K170000-475		
	ND	2.0	umhos/cm		MCAWW 120.1	11/17/03	3321475
		Dilution Factor:	1				
		Analysis Time...:	12:00				
Sulfate		Work Order #:	F4RNG1AA	MB Lot-Sample #:	D3K130000-592		
	ND	5.0	mg/L		MCAWW 300.0A	11/12/03	3317592
		Dilution Factor:	1				
		Analysis Time...:	12:54				
Total Coliform		Work Order #:	F403R1AA	MB Lot-Sample #:	D3K170000-264		
	ND	1.0	CFU/100m		SM18 9222B	11/12/03	3321264
		Dilution Factor:	1				
		Analysis Time...:	11:00				

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## METHOD BLANK REPORT

## General Chemistry

Client Lot #....: D3K120128

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Cyanide	ND	0.010	mg/L	MCANW 335.3	11/19/03	3324356
		Dilution Factor: 1				
		Analysis Time...: 13:00				
Total Dissolved Solids				Work Order #: F5NNND1AA MB Lot-Sample #: D3K250000-641		
	ND	10	mg/L	MCANW 160.1	11/17/03	3329641
		Dilution Factor: 1				
		Analysis Time...: 18:00				
Total Suspended Solids				Work Order #: F49R21AA MB Lot-Sample #: D3K200000-539		
	ND	4.0	mg/L	MCANW 160.2	11/17/03	3324539
		Dilution Factor: 1				
		Analysis Time...: 20:00				

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

**LABORATORY CONTROL SAMPLE EVALUATION REPORT**

**General Chemistry**

**Lot-Sample #....: D3K120128**

**Matrix.....: WATER**

<b>PARAMETER</b>	<b>PERCENT</b>	<b>RECOVERY</b>	<b>RPD</b>	<b>METHOD</b>	<b>PREPARATION-</b>	<b>PREP</b>	<b>BATCH #</b>
	<b>RECOVERY</b>	<b>LIMITS</b>	<b>RPD</b>		<b>ANALYSIS DATE</b>		
Chemical Oxygen Demand (COD)				WO#:FSG561AC-LCS/F5G561AD-LCSD	LCS	Lot-Sample#: D3K230000-118	
	95	(86 - 114)		MCAWW 410.4	11/23/03	3327118	
	94	(86 - 114) 0.34 (0-11)		MCAWW 410.4	11/23/03	3327118	
		Dilution Factor: 1		Analysis Time...: 13:40			
Chloride				WO#:F4RKQ1AC-LCS/F4RKQ1AD-LCSD	LCS	Lot-Sample#: D3K130000-591	
	102	(90 - 110)		MCAWW 300.0A	11/12/03	3317591	
	103	(90 - 110) 0.68 (0-10)		MCAWW 300.0A	11/12/03	3317591	
		Dilution Factor: 1		Analysis Time...: 12:31			
Fluoride				WO#:F4RHV1AC-LCS/F4RHV1AD-LCSD	LCS	Lot-Sample#: D3K130000-590	
	105	(90 - 110)		MCAWW 300.0A	11/12/03	3317590	
	106	(90 - 110) 0.95 (0-10)		MCAWW 300.0A	11/12/03	3317590	
		Dilution Factor: 1		Analysis Time...: 12:31			
Nitrate				WO#:F4RNA1AC-LCS/F4RNA1AD-LCSD	LCS	Lot-Sample#: D3K130000-593	
	100	(90 - 110)		MCAWW 300.0A	11/12/03	3317593	
	100	(90 - 110) 0.25 (0-10)		MCAWW 300.0A	11/12/03	3317593	
		Dilution Factor: 1		Analysis Time...: 12:31			
Nitrite				WO#:F4RLP1AC-LCS/F4RLP1AD-LCSD	LCS	Lot-Sample#: D3K130000-594	
	110	(90 - 110)		MCAWW 300.0A	11/12/03	3317594	
	108	(90 - 110) 1.1 (0-10)		MCAWW 300.0A	11/12/03	3317594	
		Dilution Factor: 1		Analysis Time...: 12:31			
Specific Conductance				WO#:F42Q1AC-LCS/F42Q1AD-LCSD	LCS	Lot-Sample#: D3K170000-475	
	103	(89 - 109)		MCAWW 120.1	11/17/03	3321475	
	101	(89 - 109) 1.6 (0-7.0)		MCAWW 120.1	11/17/03	3321475	
		Dilution Factor: 1		Analysis Time...: 12:00			
Sulfate				WO#:F4RNG1AC-LCS/F4RNG1AD-LCSD	LCS	Lot-Sample#: D3K130000-592	
	100	(90 - 110)		MCAWW 300.0A	11/12/03	3317592	
	100	(90 - 110) 0.35 (0-10)		MCAWW 300.0A	11/12/03	3317592	
		Dilution Factor: 1		Analysis Time...: 12:31			
Total Dissolved Solids				WO#:F5NND1AC-LCS/F5NND1AD-LCSD	LCS	Lot-Sample#: D3K250000-641	
	102	(86 - 106)		MCAWW 160.1	11/17/03	3329641	
	104	(86 - 106) 1.4 (0-20)		MCAWW 160.1	11/17/03	3329641	
		Dilution Factor: 1		Analysis Time...: 18:00			

(Continued on next page)

## LABORATORY CONTROL SAMPLE EVALUATION REPORT

## General Chemistry

Lot-Sample #....: D3K120128

Matrix.....: WATER

<u>PARAMETER</u>	<u>PERCENT</u>	<u>RECOVERY</u>	<u>RPD</u>	<u>PREPARATION-</u>	<u>PREP</u>
	<u>RECOVERY</u>	<u>LIMITS</u>	<u>RPD</u>	<u>ANALYSIS DATE</u>	<u>BATCH #</u>
Total Suspended Solids		WO#: F49R21AC-LCS/F49R21AD-LCSD	LCS	Lot-Sample#:	D3K200000-539
	102	(86 - 114)	MCAWW 160.2	11/17/03	3324539
	102	(86 - 114) 0.39 (0-20)	MCAWW 160.2	11/17/03	3324539
		Dilution Factor: 1	Analysis Time...: 20:00		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

**LABORATORY CONTROL SAMPLE DATA REPORT**

**General Chemistry**

**Lot-Sample #....: D3K120128**

**Matrix.....: WATER**

PARAMETER	SPIKE	MEASURED	PERCNT	METHOD	PREPARATION-	PREP
	AMOUNT	AMOUNT	UNITS		ANALYSIS DATE	BATCH #
Chemical Oxygen Demand (COD)			WO#: F5G561AC-LCS/F5G561AD-LCSD	LCS	Lot-Sample#: D3K230000-118	
	100	94.6	mg/L	95	MCAWW 410.4	11/23/03 3327118
	100	94.3	mg/L	94	0.34 MCAWW 410.4	11/23/03 3327118
			Dilution Factor: 1		Analysis Time...: 13:40	
Chloride			WO#: F4RKQ1AC-LCS/F4RKQ1AD-LCSD	LCS	Lot-Sample#: D3K130000-591	
	20.0	20.5	mg/L	102	MCAWW 300.0A	11/12/03 3317591
	20.0	20.6	mg/L	103	0.68 MCAWW 300.0A	11/12/03 3317591
			Dilution Factor: 1		Analysis Time...: 12:31	
Fluoride			WO#: F4RHV1AC-LCS/F4RHV1AD-LCSD	LCS	Lot-Sample#: D3K130000-590	
	4.00	4.19	mg/L	105	MCAWW 300.0A	11/12/03 3317590
	4.00	4.23	mg/L	106	0.95 MCAWW 300.0A	11/12/03 3317590
			Dilution Factor: 1		Analysis Time...: 12:31	
Nitrate			WO#: F4RNA1AC-LCS/F4RNA1AD-LCSD	LCS	Lot-Sample#: D3K130000-593	
	4.00	3.99	mg/L	100	MCAWW 300.0A	11/12/03 3317593
	4.00	3.98	mg/L	100	0.25 MCAWW 300.0A	11/12/03 3317593
			Dilution Factor: 1		Analysis Time...: 12:31	
Nitrite			WO#: F4RLP1AC-LCS/F4RLP1AD-LCSD	LCS	Lot-Sample#: D3K130000-594	
	4.00	4.39	mg/L	110	MCAWW 300.0A	11/12/03 3317594
	4.00	4.34	mg/L	108	1.1 MCAWW 300.0A	11/12/03 3317594
			Dilution Factor: 1		Analysis Time...: 12:31	
Specific Conductance			WO#: F42QA1AC-LCS/F42QA1AD-LCSD	LCS	Lot-Sample#: D3K170000-475	
	1000	1030	umhos/cm	103	MCAWW 120.1	11/17/03 3321475
	1000	1010	umhos/cm	101	1.6 MCAWW 120.1	11/17/03 3321475
			Dilution Factor: 1		Analysis Time...: 12:00	
Sulfate			WO#: F4RNG1AC-LCS/F4RNG1AD-LCSD	LCS	Lot-Sample#: D3K130000-592	
	20.0	20.0	mg/L	100	MCAWW 300.0A	11/12/03 3317592
	20.0	19.9	mg/L	100	0.35 MCAWW 300.0A	11/12/03 3317592
			Dilution Factor: 1		Analysis Time...: 12:31	
Total Dissolved Solids			WO#: F5NND1AC-LCS/F5NND1AD-LCSD	LCS	Lot-Sample#: D3K250000-641	
	500	511	mg/L	102	MCAWW 160.1	11/17/03 3329641
	500	518	mg/L	104	1.4 MCAWW 160.1	11/17/03 3329641
			Dilution Factor: 1		Analysis Time...: 18:00	

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## LABORATORY CONTROL SAMPLE DATA REPORT

## General Chemistry

Lot-Sample #....: D3K120128

Matrix.....: WATER

<u>PARAMETER</u>	<u>SPIKE</u>	<u>MEASURED</u>	<u>PERCNT</u>			<u>METHOD</u>	<u>PREPARATION-</u>	<u>PREP</u>	
	<u>AMOUNT</u>	<u>AMOUNT</u>	<u>UNITS</u>	<u>RECVRY</u>	<u>RPD</u>		<u>ANALYSIS DATE</u>	<u>BATCH #</u>	
Total Suspended Solids	250	254	mg/L	102		MCAWW	160.2	11/17/03	3324539
	250	255	mg/L	102	0.39	MCAWW	160.2	11/17/03	3324539
	Dilution Factor: 1				Analysis Time...: 20:00				

WO#: F49R21AC-LCS/F49R21AD-LCSD LCS Lot-Sample#: D3K200000-539

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

**LABORATORY CONTROL SAMPLE EVALUATION REPORT**

**General Chemistry**

**Client Lot #....: D3K120128**

**Matrix.....: WATER**

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION-ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Cyanide	107	(89 - 109)	Work Order #: F48JP1AC LCS Lot-Sample#: D3K200000-356 MCANW 335.3	11/19/03 Analysis Time...: 13:00	3324356
			Dilution Factor: 1		

**NOTE(S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #....: D3K120128

Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	PREPARATION- METHOD	ANALYSIS DATE	PREP BATCH #
Total Cyanide	0.100	0.107	mg/L	107	Work Order #: F48JP1AC LCS Lot-Sample#: D3K200000-356 MCAWW 335.3	11/19/03	Analysis Time...: 13:00 3324356
					Dilution Factor: 1		

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

**MATRIX SPIKE SAMPLE EVALUATION REPORT**

**General Chemistry**

**Client Lot #....:** D3K120128

**Matrix.....: WATER**

**Date Sampled...:** 11/13/03 12:40 **Date Received..:** 11/14/03

PARAMETER	PERCENT RECOVERY	RPD	PREPARATION-	PREP
	RECOVERY LIMITS	RPD LIMITS	ANALYSIS DATE	BATCH #
Chemical Oxygen Demand (COD)		WO#: F4V9C1AH-MS/F4V9C1AJ-MSD	MS Lot-Sample #:	D3K140280-007
	97	(86 - 114)	MCAWW 410.4	11/23/03 3327119
	101	(86 - 114) 2.2 (0-11)	MCAWW 410.4 Dilution Factor: 1 Analysis Time...: 13:40	11/23/03 3327119
Chloride		WO#: F4L8K1CK-MS/F4L8K1CL-MSD	MS Lot-Sample #:	D3K120125-007
	106	(80 - 120)	MCAWW 300.0A	11/12/03 3317591
	107	(80 - 120) 0.71 (0-10)	MCAWW 300.0A Dilution Factor: 1 Analysis Time...: 17:01	11/12/03 3317591
Fluoride		WO#: F4L8K1CH-MS/F4L8K1CJ-MSD	MS Lot-Sample #:	D3K120125-007
	102	(80 - 120)	MCAWW 300.0A	11/12/03 3317590
	102	(80 - 120) 0.19 (0-10)	MCAWW 300.0A Dilution Factor: 1 Analysis Time...: 17:01	11/12/03 3317590
Nitrate		WO#: F4L8K1CP-MS/F4L8K1CQ-MSD	MS Lot-Sample #:	D3K120125-007
	99	(80 - 120)	MCAWW 300.0A	11/12/03 3317593
	100	(80 - 120) 0.56 (0-10)	MCAWW 300.0A Dilution Factor: 1 Analysis Time...: 17:01	11/12/03 3317593
Nitrite		WO#: F4L8K1CM-MS/F4L8K1CN-MSD	MS Lot-Sample #:	D3K120125-007
	109	(80 - 120)	MCAWW 300.0A	11/12/03 3317594
	109	(80 - 120) 0.18 (0-10)	MCAWW 300.0A Dilution Factor: 1 Analysis Time...: 17:01	11/12/03 3317594
Sulfate		WO#: F4L8K1CR-MS/F4L8K1CT-MSD	MS Lot-Sample #:	D3K120125-007
	116 I	(80 - 120)	MCAWW 300.0A	11/12/03 3317592
	117 I	(80 - 120) 0.28 (0-10)	MCAWW 300.0A Dilution Factor: 1 Analysis Time...: 17:01	11/12/03 3317592
Total Cyanide		WO#: F4MEW1AP-MS/F4MEW1AQ-MSD	MS Lot-Sample #:	D3K120149-001
	104	(78 - 120)	MCAWW 335.3	11/19/03 3324356
	105	(78 - 120) 0.94 (0-20)	MCAWW 335.3 Dilution Factor: 1 Analysis Time...: 13:00	11/19/03 3324356

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

I Estimated result. Result concentration exceeds the calibration range.

**MATRIX SPIKE SAMPLE DATA REPORT**

**General Chemistry**

**Client Lot #...:** D3K120128

**Matrix.....:** WATER

**Date Sampled...:** 11/13/03 12:40 **Date Received..:** 11/14/03

<b>PARAMETER</b>	<b>SAMPLE SPIKE AMOUNT</b>	<b>MEASRD AMOUNT</b>	<b>UNITS</b>	<b>PERCNT</b>		<b>PREPARATION- ANALYSIS DATE</b>	<b>PREP BATCH #</b>
				<b>RECVRY</b>	<b>RPD</b>		
<b>Chemical Oxygen Demand (COD)</b>							
				WO#:	F4V9C1AH-MS/F4V9C1AJ-MSD	MS Lot-Sample #:	D3K140280-007
	40	50.0	88.8	mg/L	97	MCAWW 410.4	11/23/03 3327119
	40	50.0	90.8	mg/L	101	2.2 MCAWW 410.4	11/23/03 3327119
				Dilution Factor: 1			
				Analysis Time..: 13:40			
<b>Chloride</b>							
				WO#:	F4L8K1CK-MS/F4L8K1CL-MSD	MS Lot-Sample #:	D3K120125-007
	22	25.0	48.7	mg/L	106	MCAWW 300.0A	11/12/03 3317591
	22	25.0	49.1	mg/L	107	0.71 MCAWW 300.0A	11/12/03 3317591
				Dilution Factor: 1			
				Analysis Time..: 17:01			
<b>Fluoride</b>							
				WO#:	F4L8K1CH-MS/F4L8K1CJ-MSD	MS Lot-Sample #:	D3K120125-007
	ND	5.00	5.12	mg/L	102	MCAWW 300.0A	11/12/03 3317590
	ND	5.00	5.11	mg/L	102	0.19 MCAWW 300.0A	11/12/03 3317590
				Dilution Factor: 1			
				Analysis Time..: 17:01			
<b>Nitrate</b>							
				WO#:	F4L8K1CP-MS/F4L8K1CQ-MSD	MS Lot-Sample #:	D3K120125-007
	0.36	5.00	5.33	mg/L	99	MCAWW 300.0A	11/12/03 3317593
	0.36	5.00	5.36	mg/L	100	0.56 MCAWW 300.0A	11/12/03 3317593
				Dilution Factor: 1			
				Analysis Time..: 17:01			
<b>Nitrite</b>							
				WO#:	F4L8K1CM-MS/F4L8K1CN-MSD	MS Lot-Sample #:	D3K120125-007
	ND	5.00	5.46	mg/L	109	MCAWW 300.0A	11/12/03 3317594
	ND	5.00	5.47	mg/L	109	0.18 MCAWW 300.0A	11/12/03 3317594
				Dilution Factor: 1			
				Analysis Time..: 17:01			
<b>Sulfate</b>							
				WO#:	F4L8K1CR-MS/F4L8K1CT-MSD	MS Lot-Sample #:	D3K120125-007
	41	25.0	69.5 I	mg/L	116	MCAWW 300.0A	11/12/03 3317592
	41	25.0	69.7 I	mg/L	117	0.28 MCAWW 300.0A	11/12/03 3317592
				Dilution Factor: 1			
				Analysis Time..: 17:01			
<b>Total Cyanide</b>							
				WO#:	F4MEW1AP-MS/F4MEW1AQ-MSD	MS Lot-Sample #:	D3K120149-001
	ND	0.100	0.105	mg/L	104	MCAWW 335.3	11/19/03 3324356
	ND	0.100	0.106	mg/L	105	0.94 MCAWW 335.3	11/19/03 3324356
				Dilution Factor: 1			
				Analysis Time..: 13:00			

**NOTE(S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

I Estimated result. Result concentration exceeds the calibration range.

SAMPLE DUPLICATE EVALUATION REPORT

## **General Chemistry**

**Client Lot #...: D3K120128**      **Work Order #...: F4M33-SMP**      **Matrix.....: WATER**  
**F4M33-DUP**  
**Date Sampled...: 11/12/03 06:05**    **Date Received..: 11/12/03**

<u>PARAM</u>	<u>RESULT</u>	<u>DUPLICATE RESULT</u>	<u>UNITS</u>	<u>RPD</u>	<u>RPD LIMIT</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Suspended Solids	80 Q	80 Q	mg/L	0.0	(0-20)	MCAWW 160.2	SD Lot-Sample #: D3K120185-002 11/17/03	3324539
Dilution Factor: 2.5						Analysis Time...: 20:00		

**NOTE(S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

**Q Elevated reporting limit.** The reporting limit is elevated due to high analytic levels.

## SAMPLE DUPLICATE EVALUATION REPORT

## General Chemistry

Date Sampled...: 11/10/03 15:45 Date Received..: 11/12/03

<u>PARAM</u>	<u>RESULT</u>	<u>UNITS</u>	<u>RPD</u>	<u>LIMIT</u>	<u>METHOD</u>	<u>ANALYSIS DATE</u>	<u>PREP BATCH #</u>	
Total Dissolved Solids	460	mg/L	1.1	(0-20)	MCAWW	160.1	11/17/03	3329641
				Dilution Factor: 1	Analysis Time...: 18:00			

## Chain of Custody Record

3.1<sup>o</sup> 28/11/12

**SEVERN  
TRENT** **STL**  
**Severn Trent Laboratories, Inc.**

**Severn Trent Laboratories, Inc.**

**STL Denver**  
4955 Yarrow Street  
Arvada, CO 80002

**DISTRIBUTION:** WHITE - Returned to Client with Report; CANARY - Status with the Sammies; PINK - Field Commanders