

**SEVERN  
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**ANALYTICAL REPORT**

**2004X00404**

**URENCO Project**

**Lot #: D4C310153**

**Purchase Order 018511-0403003**

**Carl Jackson**

**Lockwood Greene  
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Spartanburg, SC 29304**

**STL DENVER**

  
**Gail DeRuzzo  
Project Manager**

**May 6, 2004**

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## Case Narrative

Enclosed is the report for three samples received at STL's Denver laboratory on March 31, 2004. 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 D4C310153

### Sample Receiving

- The cooler temperature upon receipt at the Denver laboratory was 3.6° C.
- All sample bottles were received in acceptable condition.

### Holding Times

- All holding times were met.

### Method Blanks

- The analytes Methylene chloride by Method 8260B, Aluminum by Method 6010B, and Chemical Oxygen Demand (COD) by Method 410.4 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.
- 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 1,1-Dichloroethene by Method 8260B and COD by Method 410.4. Because the corresponding Laboratory Control Samples and the Method Blank samples were within control limits, these anomalies may be due to matrix interference.
- The method required MS/MSDs could not be performed for Methods 8270C, 8081A, 8082, and 8141A due to insufficient sample volume, however, LCS/LCSD pairs were analyzed to demonstrate method precision.

Lot #: D4C310153

- All other MS and MSD samples were within established control limits.

#### Organics

- The second source Initial Calibration Verification (ICV) standard for 1,1-Dichloroethene and Hexachlorobutadiene by Method 8260B exceeded the control limits (65-135%). However, the overall mean percent RSD for all compounds is within control limits, therefore, the ICAL is also in control and no corrective action was necessary.
- The Continuing Calibration Verification (CCV) standards for Demeton-S, O,O,O-Triethylphosphorothioate, Dichlorvos, Azinphos-methyl, Mevinphos, Dimethoate, Malathion, Tetrachlorvinphos, and Naled by Method 8141A exceeded the percent difference limits in various runs and columns. 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.
- The Continuing Calibration Verification (CCV) standards for Endrin and Endrin aldehyde by Method 8081A exceeded the percent difference limits in various runs and columns. 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 calibration blank result exceed's STL's reporting limit for Thallium. The sample result is non-detect, therefore, there is no impact on the data.

# EXECUTIVE SUMMARY - Detection Highlights

D4C310153

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
L.E.S. MW-2 03/29/04 16:35 001				
Aluminum	120 J	100	ug/L	SW846 6010B
Barium	14	10	ug/L	SW846 6010B
Boron	1800	100	ug/L	SW846 6010B
Chromium	6.3 B	10	ug/L	SW846 6010B
Copper	3.5 B	10	ug/L	SW846 6010B
Iron	39 B	100	ug/L	SW846 6010B
Manganese	900	10	ug/L	SW846 6010B
Molybdenum	40	20	ug/L	SW846 6010B
Nickel	8.8 B	40	ug/L	SW846 6010B
Zinc	11 B	20	ug/L	SW846 6010B
Methylene chloride	0.59 J,B	5.0	ug/L	SW846 8260B
Specific Conductance	9700	2.0	umhos/cm	MCAWW 120.1
Total Dissolved Solids	6300 Q	20	mg/L	MCAWW 160.1
Total Suspended Solids	7.6	4.0	mg/L	MCAWW 160.2
Chloride	1700 Q	300	mg/L	MCAWW 300.0A
Sulfate	2400 Q	500	mg/L	MCAWW 300.0A
Fluoride	0.81 B,G	5.0	mg/L	MCAWW 300.0A
Nitrate	0.44 B,G	2.5	mg/L	MCAWW 300.0A
Nitrite	1.1 B,G	2.5	mg/L	MCAWW 300.0A
Chemical Oxygen Demand (COD)	20 J	20	mg/L	MCAWW 410.4
TRIP BLANK 03/30/04 003				
Methylene chloride	0.63 J,B	5.0	ug/L	SW846 8260B

# METHODS SUMMARY

D4C310153

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
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 (Enumeration)	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

D4C310153

<u>ANALYTICAL METHOD</u>	<u>ANALYST</u>	<u>ANALYST ID</u>
MCAWW 120.1	Maria Fayard	002596
MCAWW 160.1	Jean Carrier	008763
MCAWW 160.2	Jean Carrier	008763
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	Lynn-Anne Trudell	6645
SW846 7470A	Kacey Ono	003371
SW846 8081A	Dennis Jonsrud	009226
SW846 8082	Steve Jetter	011748
SW846 8141A	Sonya Dacar	011595
SW846 8260B	Jason Reinhardt	013454
SW846 8270C	Rwanda Todea	005716

### 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

D4C310153

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
GC8WL	001	L.E.S. MW-2	03/29/04	16:3
GC8WT	002	L.E.S. MW-2	03/30/04	12:4
GC8WX	003	TRIP BLANK	03/30/04	

## 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: L.E.S. MW-2

GC/MS Volatiles

Lot-Sample #....: D4C310153-001 Work Order #....: GC8WL1A8 Matrix.....: WATER  
 Date Sampled....: 03/29/04 16:35 Date Received...: 03/31/04  
 Prep Date.....: 04/07/04 Analysis Date...: 04/08/04  
 Prep Batch #....: 4099587 Analysis Time...: 04:30  
 Dilution Factor: 1  
 Method.....: SW846 8260B

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	ND	1.0	ug/L	0.24
(total)				
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	0.59 J,B	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: L.E.S. MW-2

GC/MS Volatiles

Lot-Sample #....: D4C310153-001 Work Order #....: GC8WL1A8 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	93	(76 - 116)
1,2-Dichloroethane-d4	76	(59 - 129)
4-Bromofluorobenzene	84	(74 - 114)
Toluene-d8	83	(76 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

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

LOCKWOOD GREENE

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #....: D4C310153-003      Work Order #....: GC8WX1AA      Matrix.....: WATER  
 Date Sampled....: 03/30/04      Date Received...: 03/31/04  
 Prep Date.....: 04/07/04      Analysis Date...: 04/08/04  
 Prep Batch #....: 4099587      Analysis Time...: 00:52  
 Dilution Factor: 1  
 Method.....: SW846 8260B

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	ND	1.0	ug/L	0.24
(total)				
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	0.63 J,B	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 #....: D4C310153-003 Work Order #....: GC8WX1AA

Matrix.....: WATER

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
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
SURROGATE	PERCENT		RECOVERY	
	RECOVERY		LIMITS	
Dibromofluoromethane	90		(76 - 116)	
1,2-Dichloroethane-d4	75		(59 - 129)	
4-Bromofluorobenzene	85		(74 - 114)	
Toluene-d8	85		(76 - 116)	

NOTE(S) :

J Estimated result. Result is less than RL.

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

LOCKWOOD GREENE

Client Sample ID: L.E.S. MW-2

GC/MS Semivolatiles

Lot-Sample #....: D4C310153-001 Work Order #....: GC8WL1A9 Matrix.....: WATER  
 Date Sampled....: 03/29/04 16:35 Date Received...: 03/31/04  
 Prep Date.....: 04/02/04 Analysis Date...: 04/16/04  
 Prep Batch #....: 4093267 Analysis Time...: 14:52  
 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	2.0
4-Aminobiphenyl	ND	50	ug/L	2.0
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	2.0
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

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LOCKWOOD GREENE

Client Sample ID: L.E.S. MW-2

GC/MS Semivolatiles

Lot-Sample #....: D4C310153-001 Work Order #....: GC8WL1A9 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	2.0
Diethyl phthalate	ND	10	ug/L	0.70
Dimethoate	ND	20	ug/L	2.0
7,12-Dimethylbenz(a)- anthracene	ND	20	ug/L	3.0
3,3'-Dimethylbenzidine	ND	20	ug/L	4.0
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	2.0
Disulfoton	ND	50	ug/L	2.0
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	5.0
Isophorone	ND	10	ug/L	0.90
Isosafrole	ND	20	ug/L	3.0
Methapyrilene	ND	50	ug/L	20
3-Methylcholanthrene	ND	20	ug/L	1.0
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	1.0

(Continued on next page)

LOCKWOOD GREENE

Client Sample ID: L.E.S. MW-2

GC/MS Semivolatiles

Lot-Sample #....: D4C310153-001 Work Order #....: GC8WL1A9 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	5.0
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-propyl- amine	ND	10	ug/L	0.70
N-Nitrosomethylethylamine	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	2.0
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	2.0
Phenanthrene	ND	10	ug/L	0.70
Phenol	ND	10	ug/L	0.90
Phorate	ND	50	ug/L	2.0
2-Picoline	ND	20	ug/L	3.0
Pronamide	ND	20	ug/L	2.0
Pyrene	ND	10	ug/L	0.80
Pyridine	ND	20	ug/L	10
1,2,4,5-Tetrachloro- benzene	ND	10	ug/L	2.0
2,3,4,6-Tetrachlorophenol	ND	50	ug/L	2.0
Thionazin	ND	10	ug/L	2.0
o-Toluidine	ND	10	ug/L	2.0
1,2,4-Trichloro- benzene	ND	10	ug/L	0.90
2,4,5-Trichloro- phenol	ND	10	ug/L	1.0
2,4,6-Trichloro- phenol	ND	10	ug/L	0.80

(Continued on next page)

LOCKWOOD GREENE

Client Sample ID: L.E.S. MW-2

GC/MS Semivolatiles

Lot-Sample #....: D4C310153-001 Work Order #....: GC8WL1A9 Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING 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>	<u>RECOVERY LIMITS</u>
2-Fluorophenol	74	(32 - 116)
Phenol-d5	77	(40 - 111)
Nitrobenzene-d5	76	(53 - 107)
2-Fluorobiphenyl	57	(31 - 105)
2,4,6-Tribromophenol	54	(42 - 122)
Terphenyl-d14	67	(21 - 125)



LOCKWOOD GREENE

Client Sample ID: L.E.S. MW-2

GC Semivolatiles

Lot-Sample #....: D4C310153-001 Work Order #....: GC8WL1CC Matrix.....: WATER  
 Date Sampled...: 03/29/04 16:35 Date Received...: 03/31/04  
 Prep Date.....: 03/31/04 Analysis Date...: 04/15/04  
 Prep Batch #....: 4091410 Analysis Time...: 17:06  
 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	84	(12 - 153)		
Tetrachloro-m-xylene	91	(55 - 113)		

LOCKWOOD GREENE

Client Sample ID: L.E.S. MW-2

GC Semivolatiles

Lot-Sample #....: D4C310153-001 Work Order #....: GC8WL1CA Matrix.....: WATER  
 Date Sampled....: 03/29/04 16:35 Date Received...: 03/31/04  
 Prep Date.....: 03/31/04 Analysis Date...: 04/01/04  
 Prep Batch #....: 4091394 Analysis Time...: 18:19  
 Dilution Factor: 1  
 Method.....: SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
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
	PERCENT	RECOVERY		
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>		
Tetrachloro-m-xylene	105	(51 - 122)		
Decachlorobiphenyl	89	(41 - 138)		

LOCKWOOD GREENE

Client Sample ID: L.E.S. MW-2

GC Semivolatiles

Lot-Sample #....: D4C310153-001 Work Order #....: GC8WL1CD Matrix.....: WATER  
 Date Sampled....: 03/29/04 16:35 Date Received...: 03/31/04  
 Prep Date.....: 04/05/04 Analysis Date...: 04/12/04  
 Prep Batch #....: 4096147 Analysis Time...: 20:18  
 Dilution Factor: 1  
 Method.....: SW846 8141A

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
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
SURROGATE	PERCENT		RECOVERY	
	RECOVERY		LIMITS	
Chlormefos	92		(48 - 114)	
Ethyl Pirimifos	72		(68 - 98 )	

LOCKWOOD GREENE

Client Sample ID: L.E.S. MW-2

TOTAL Metals

Lot-Sample #....: D4C310153-001

Matrix.....: WATER

Date Sampled....: 03/29/04 16:35 Date Received...: 03/31/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 4092277						
Mercury	ND	0.20	ug/L	SW846 7470A	04/06/04	GC8WLLA7
		Dilution Factor: 1		Analysis Time...: 17:33	MDL.....: 0.054	
Prep Batch #....: 4092620						
Silver	ND	10	ug/L	SW846 6010B	04/06-04/17/04	GC8WLLAK
		Dilution Factor: 1		Analysis Time...: 08:56	MDL.....: 0.70	
Aluminum	120 J	100	ug/L	SW846 6010B	04/06-04/29/04	GC8WLLAL
		Dilution Factor: 1		Analysis Time...: 03:14	MDL.....: 20	
Arsenic	ND	15	ug/L	SW846 6010B	04/06-04/17/04	GC8WLLAM
		Dilution Factor: 1		Analysis Time...: 08:56	MDL.....: 4.9	
Barium	14	10	ug/L	SW846 6010B	04/06-04/17/04	GC8WLLAN
		Dilution Factor: 1		Analysis Time...: 08:56	MDL.....: 0.37	
Beryllium	ND	5.0	ug/L	SW846 6010B	04/06-04/17/04	GC8WLLAP
		Dilution Factor: 1		Analysis Time...: 08:56	MDL.....: 0.41	
Boron	1800	100	ug/L	SW846 6010B	04/06-04/29/04	GC8WLLAQ
		Dilution Factor: 1		Analysis Time...: 03:14	MDL.....: 8.3	
Cadmium	ND	5.0	ug/L	SW846 6010B	04/06-04/17/04	GC8WLLAR
		Dilution Factor: 1		Analysis Time...: 08:56	MDL.....: 0.27	
Cobalt	ND	10	ug/L	SW846 6010B	04/06-04/17/04	GC8WLLAT
		Dilution Factor: 1		Analysis Time...: 08:56	MDL.....: 0.67	
Chromium	6.3 B	10	ug/L	SW846 6010B	04/06-04/17/04	GC8WLLAU
		Dilution Factor: 1		Analysis Time...: 08:56	MDL.....: 2.1	
Copper	3.5 B	10	ug/L	SW846 6010B	04/06-04/17/04	GC8WLLAV
		Dilution Factor: 1		Analysis Time...: 08:56	MDL.....: 0.97	
Iron	39 B	100	ug/L	SW846 6010B	04/06-04/17/04	GC8WLLAW
		Dilution Factor: 1		Analysis Time...: 08:56	MDL.....: 19	
Manganese	900	10	ug/L	SW846 6010B	04/06-04/17/04	GC8WLLAX
		Dilution Factor: 1		Analysis Time...: 08:56	MDL.....: 0.54	

(Continued on next page)

LOCKWOOD GREENE

Client Sample ID: L.E.S. MW-2

TOTAL Metals

Lot-Sample #....: D4C310153-001

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Molybdenum	40	20	ug/L	SW846 6010B	04/06-04/17/04	GC8WL1A0
		Dilution Factor: 1		Analysis Time...: 08:56	MDL.....: 2.3	
Nickel	8.8 B	40	ug/L	SW846 6010B	04/06-04/17/04	GC8WL1A1
		Dilution Factor: 1		Analysis Time...: 08:56	MDL.....: 4.2	
Lead	ND	3.0	ug/L	SW846 6010B	04/06-04/17/04	GC8WL1A2
		Dilution Factor: 1		Analysis Time...: 08:56	MDL.....: 2.1	
Antimony	ND	10	ug/L	SW846 6010B	04/06-04/17/04	GC8WL1A3
		Dilution Factor: 1		Analysis Time...: 08:56	MDL.....: 3.6	
Selenium	ND	15	ug/L	SW846 6010B	04/06-04/17/04	GC8WL1A4
		Dilution Factor: 1		Analysis Time...: 08:56	MDL.....: 4.6	
Thallium	ND	10	ug/L	SW846 6010B	04/06-04/17/04	GC8WL1A5
		Dilution Factor: 1		Analysis Time...: 08:56	MDL.....: 8.1	
Zinc	11 B	20	ug/L	SW846 6010B	04/06-04/17/04	GC8WL1A6
		Dilution Factor: 1		Analysis Time...: 08:56	MDL.....: 7.1	

NOTE(S) :

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

B Estimated result. Result is less than RL.

LOCKWOOD GREENE

Client Sample ID: L.E.S. MW-2

General Chemistry

Lot-Sample #....: D4C310153-001 Work Order #....: GC8WL Matrix.....: WATER  
Date Sampled....: 03/29/04 16:35 Date Received...: 03/31/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chemical Oxygen Demand (COD)	20 J	20	mg/L	MCAWW 410.4	04/08/04	4099309
				Dilution Factor: 1	Analysis Time...: 11:15	MDL.....: 2.9
Chloride	1700 Q	300	mg/L	MCAWW 300.0A	03/31/04	4092263
				Dilution Factor: 100	Analysis Time...: 16:21	MDL.....: 20
Fluoride	0.81 B,G	5.0	mg/L	MCAWW 300.0A	03/31/04	4092264
				Dilution Factor: 5	Analysis Time...: 15:34	MDL.....: 0.50
Nitrate	0.44 B,G	2.5	mg/L	MCAWW 300.0A	03/31/04	4092265
				Dilution Factor: 5	Analysis Time...: 15:34	MDL.....: 0.25
Nitrite	1.1 B,G	2.5	mg/L	MCAWW 300.0A	03/31/04	4092266
				Dilution Factor: 5	Analysis Time...: 15:34	MDL.....: 0.25
Specific Conductance	9700	2.0	umhos/cm	MCAWW 120.1	04/09/04	4103197
				Dilution Factor: 1	Analysis Time...: 16:00	MDL.....:
Sulfate	2400 Q	500	mg/L	MCAWW 300.0A	03/31/04	4092262
				Dilution Factor: 100	Analysis Time...: 16:21	MDL.....: 20
Total Cyanide	ND	0.010	mg/L	MCAWW 335.3	04/05/04	4096601
				Dilution Factor: 1	Analysis Time...: 14:00	MDL.....: 0.0039
Total Dissolved Solids	6300 Q	20	mg/L	MCAWW 160.1	04/02/04	4093379
				Dilution Factor: 2	Analysis Time...: 12:30	MDL.....: 7.2
Total Suspended Solids	7.6	4.0	mg/L	MCAWW 160.2	04/01/04	4092561
				Dilution Factor: 1	Analysis Time...: 18:00	MDL.....: 0.87

NOTE(S):

RL Reporting Limit

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

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

B Estimated result. Result is less than RL.

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

LOCKWOOD GREENE

Client Sample ID: L.E.S. MW-2

General Chemistry

Lot-Sample #....: D4C310153-002    Work Order #....: GC8WT    Matrix.....: WATER  
Date Sampled....: 03/30/04 12:46    Date Received...: 03/31/04

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Fecal Coliform	ND	1.0	CFU/100m	SM18 9222D Fecal	03/31/04	4096595
		Dilution Factor: 1		Analysis Time...: 11:00	MDL.....:	
Total Coliform	ND	1.0	CFU/100m	SM18 9222B	03/31/04	4096596
		Dilution Factor: 1		Analysis Time...: 11:00	MDL.....:	

# QC DATA ASSOCIATION SUMMARY

D4C310153

## 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		4103197	4103088
	WATER	MCAWW 160.1		4093379	4096267
	WATER	MCAWW 160.2		4092561	4093173
	WATER	MCAWW 300.0A		4092263	4100224
	WATER	MCAWW 300.0A		4092262	4092120
	WATER	MCAWW 300.0A		4092264	4100208
	WATER	MCAWW 300.0A		4092265	4100231
	WATER	MCAWW 300.0A		4092266	4100226
	WATER	SW846 7470A		4092277	4092142
	WATER	SW846 8141A		4096147	
	WATER	SW846 8082		4091394	
	WATER	SW846 8081A		4091410	
	WATER	SW846 8260B		4099587	4099330
	WATER	SW846 8270C		4093267	
	WATER	SW846 6010B		4092620	4092293
	WATER	MCAWW 335.3		4096601	4096322
	WATER	MCAWW 410.4		4099309	4099149
002	WATER	SM18 9222D Fecal		4096595	
	WATER	SM18 9222B		4096596	
003	WATER	SW846 8260B		4099587	4099330



# METHOD BLANK REPORT

## GC/MS Volatiles

Client Lot #....: D4C310153  
MB Lot-Sample #: D4D080000-587

Work Order #....: GDT7J1AA

Matrix.....: WATER

Analysis Date...: 04/07/04  
Dilution Factor: 1

Prep Date.....: 04/07/04  
Prep Batch #....: 4099587

Analysis Time...: 19:55

PARAMETER	RESULT	REPORTING 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	0.48 J	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 #...: D4C310153

Work Order #...: GDT7J1AA

Matrix.....: WATER

PARAMETER	RESULT	REPORTING		METHOD
		LIMIT	UNITS	
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

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	94	(76 - 116)
1,2-Dichloroethane-d4	76	(59 - 129)
4-Bromofluorobenzene	88	(74 - 114)
Toluene-d8	86	(76 - 116)

### NOTE(S) :

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

J Estimated result. Result is less than RL.

# LABORATORY CONTROL SAMPLE EVALUATION REPORT

## GC/MS Volatiles

Client Lot #....: D4C310153      Work Order #....: GDT7J1AC      Matrix.....: WATER  
 LCS Lot-Sample#: D4D080000-587  
 Prep Date.....: 04/07/04      Analysis Date...: 04/07/04  
 Prep Batch #....: 4099587      Analysis Time...: 19:35  
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
Benzene	97	(75 - 116)	SW846 8260B
Chlorobenzene	92	(77 - 117)	SW846 8260B
1,1-Dichloroethene	102	(67 - 125)	SW846 8260B
Toluene	86	(74 - 115)	SW846 8260B
Trichloroethene	114	(80 - 123)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	89	(76 - 116)
1,2-Dichloroethane-d4	72	(59 - 129)
4-Bromofluorobenzene	84	(74 - 114)
Toluene-d8	82	(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 #....: D4C310153      Work Order #....: GDT7J1AC      Matrix.....: WATER  
 LCS Lot-Sample#: D4D080000-587  
 Prep Date.....: 04/07/04      Analysis Date...: 04/07/04  
 Prep Batch #....: 4099587      Analysis Time...: 19:35  
 Dilution Factor: 1

<u>PARAMETER</u>	<u>SPIKE</u> <u>AMOUNT</u>	<u>MEASURED</u> <u>AMOUNT</u>	<u>UNITS</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>METHOD</u>
Benzene	10.0	9.70	ug/L	97	SW846 8260B
Chlorobenzene	10.0	9.21	ug/L	92	SW846 8260B
1,1-Dichloroethene	10.0	10.2	ug/L	102	SW846 8260B
Toluene	10.0	8.64	ug/L	86	SW846 8260B
Trichloroethene	10.0	11.4	ug/L	114	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
Dibromofluoromethane	89	(76 - 116)
1,2-Dichloroethane-d4	72	(59 - 129)
4-Bromofluorobenzene	84	(74 - 114)
Toluene-d8	82	(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 #....: D4C310153      Work Order #....: GDCH91EW-MS      Matrix.....: WATER  
 MS Lot-Sample #: D4D010203-001      GDCH91EX-MSD  
 Date Sampled...: 03/29/04 16:50      Date Received...: 04/01/04  
 Prep Date.....: 04/07/04      Analysis Date...: 04/07/04  
 Prep Batch #....: 4099587      Analysis Time...: 21:56  
 Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	98	(75 - 116)			SW846 8260B
	100	(75 - 116)	1.2	(0-20)	SW846 8260B
Chlorobenzene	93	(77 - 117)			SW846 8260B
	93	(77 - 117)	0.23	(0-20)	SW846 8260B
1,1-Dichloroethene	156 a	(67 - 125)			SW846 8260B
	159 a	(67 - 125)	1.7	(0-20)	SW846 8260B
Toluene	88	(74 - 115)			SW846 8260B
	88	(74 - 115)	0.63	(0-20)	SW846 8260B
Trichloroethene	116	(80 - 123)			SW846 8260B
	117	(80 - 123)	0.89	(0-20)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	91	(76 - 116)
	93	(76 - 116)
1,2-Dichloroethane-d4	74	(59 - 129)
	76	(59 - 129)
4-Bromofluorobenzene	84	(74 - 114)
	86	(74 - 114)
Toluene-d8	85	(76 - 116)
	85	(76 - 116)

### NOTE(S) :

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

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

# MATRIX SPIKE SAMPLE DATA REPORT

## GC/MS Volatiles

Client Lot #....: D4C310153      Work Order #....: GDCH91EW-MS      Matrix.....: WATER  
 MS Lot-Sample #: D4D010203-001      GDCH91EX-MSD  
 Date Sampled....: 03/29/04 16:50      Date Received...: 04/01/04  
 Prep Date.....: 04/07/04      Analysis Date...: 04/07/04  
 Prep Batch #....: 4099587      Analysis Time...: 21:56  
 Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Benzene	0.18	10.0	10.0	ug/L	98		SW846 8260B
	0.18	10.0	10.1	ug/L	100	1.2	SW846 8260B
Chlorobenzene	ND	10.0	9.32	ug/L	93		SW846 8260B
	ND	10.0	9.34	ug/L	93	0.23	SW846 8260B
1,1-Dichloroethene	ND	10.0	15.6	ug/L	156 a		SW846 8260B
	ND	10.0	15.9	ug/L	159 a	1.7	SW846 8260B
Toluene	ND	10.0	8.82	ug/L	88		SW846 8260B
	ND	10.0	8.76	ug/L	88	0.63	SW846 8260B
Trichloroethene	2.2	10.0	13.8	ug/L	116		SW846 8260B
	2.2	10.0	13.9	ug/L	117	0.89	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	91	(76 - 116)
	93	(76 - 116)
1,2-Dichloroethane-d4	74	(59 - 129)
	76	(59 - 129)
4-Bromofluorobenzene	84	(74 - 114)
	86	(74 - 114)
Toluene-d8	85	(76 - 116)
	85	(76 - 116)

### NOTE(S):

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

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

# METHOD BLANK REPORT

## GC/MS Semivolatiles

Client Lot #....: D4C310153  
MB Lot-Sample #: D4D020000-267

Work Order #....: GDEXW1AA

Matrix.....: WATER

Analysis Date...: 04/06/04  
Dilution Factor: 1

Prep Date.....: 04/02/04

Analysis Time...: 17:41

Prep Batch #....: 4093267

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 #...: D4C310153

Work Order #...: GDEXW1AA

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
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 #....: D4C310153

Work Order #....: GDEXW1AA

Matrix.....: WATER

PARAMETER	RESULT	REPORTING		METHOD
		LIMIT	UNITS	
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
Pronamide	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
O,O,O-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 #....: D4C310153

Work Order #....: GDEXW1AA

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>		
2-Fluorophenol	74	(32 - 116)		
Phenol-d5	74	(40 - 111)		
Nitrobenzene-d5	69	(53 - 107)		
2-Fluorobiphenyl	68	(31 - 105)		
2,4,6-Tribromophenol	81	(42 - 122)		
Terphenyl-d14	71	(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 #....: D4C310153      Work Order #....: GDEXW1AC-LCS      Matrix.....: WATER  
 LCS Lot-Sample#: D4D020000-267      GDEXW1AD-LCSD  
 Prep Date.....: 04/02/04      Analysis Date...: 04/06/04  
 Prep Batch #....: 4093267      Analysis Time...: 18:09  
 Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	63	(55 - 97)			SW846 8270C
	65	(55 - 97)	3.1	(0-30)	SW846 8270C
4-Chloro-3-methylphenol	68	(59 - 106)			SW846 8270C
	70	(59 - 106)	3.2	(0-40)	SW846 8270C
2-Chlorophenol	71	(59 - 105)			SW846 8270C
	72	(59 - 105)	0.40	(0-40)	SW846 8270C
1,4-Dichlorobenzene	63	(31 - 98)			SW846 8270C
	63	(31 - 98)	0.35	(0-40)	SW846 8270C
2,4-Dinitrotoluene	65	(57 - 113)			SW846 8270C
	69	(57 - 113)	5.0	(0-40)	SW846 8270C
4-Nitrophenol	56	(43 - 118)			SW846 8270C
	59	(43 - 118)	5.9	(0-40)	SW846 8270C
N-Nitrosodi-n-propyl- amine	58	(51 - 99)			SW846 8270C
	58	(51 - 99)	0.91	(0-40)	SW846 8270C
Pentachlorophenol	78	(48 - 114)			SW846 8270C
	82	(48 - 114)	4.8	(0-40)	SW846 8270C
Phenol	66	(56 - 106)			SW846 8270C
	66	(56 - 106)	0.74	(0-40)	SW846 8270C
Pyrene	55	(51 - 103)			SW846 8270C
	59	(51 - 103)	6.1	(0-40)	SW846 8270C
1,2,4-Trichloro- benzene	67	(36 - 99)			SW846 8270C
	69	(36 - 99)	2.2	(0-40)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	62	(54 - 105)
	64	(54 - 105)
Phenol-d5	64	(55 - 106)
	65	(55 - 106)
Nitrobenzene-d5	61	(58 - 108)
	61	(58 - 108)
2-Fluorobiphenyl	59	(53 - 97)
	59	(53 - 97)
2,4,6-Tribromophenol	72	(62 - 113)
	74	(62 - 113)
Terphenyl-d14	59	(55 - 109)

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #....: D4C310153      Work Order #....: GDEXW1AC-LCS      Matrix.....: WATER  
LCS Lot-Sample#: D4D020000-267      GDEXW1AD-LCSD

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
	62	(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 #....: D4C310153      Work Order #....: GDEXW1AC-LCS      Matrix.....: WATER  
 LCS Lot-Sample#: D4D020000-267      GDEXW1AD-LCSD  
 Prep Date.....: 04/02/04      Analysis Date...: 04/06/04  
 Prep Batch #....: 4093267      Analysis Time...: 18:09  
 Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Acenaphthene	100	63.3	ug/L	63		SW846 8270C
	100	65.3	ug/L	65	3.1	SW846 8270C
4-Chloro-3-methylphenol	150	102	ug/L	68		SW846 8270C
	150	105	ug/L	70	3.2	SW846 8270C
2-Chlorophenol	150	107	ug/L	71		SW846 8270C
	150	107	ug/L	72	0.40	SW846 8270C
1,4-Dichlorobenzene	100	63.2	ug/L	63		SW846 8270C
	100	63.0	ug/L	63	0.35	SW846 8270C
2,4-Dinitrotoluene	100	65.4	ug/L	65		SW846 8270C
	100	68.8	ug/L	69	5.0	SW846 8270C
4-Nitrophenol	150	84.1	ug/L	56		SW846 8270C
	150	89.2	ug/L	59	5.9	SW846 8270C
N-Nitrosodi-n-propyl- amine	100	57.8	ug/L	58		SW846 8270C
	100	58.3	ug/L	58	0.91	SW846 8270C
Pentachlorophenol	150	117	ug/L	78		SW846 8270C
	150	123	ug/L	82	4.8	SW846 8270C
Phenol	150	98.9	ug/L	66		SW846 8270C
	150	99.6	ug/L	66	0.74	SW846 8270C
Pyrene	100	55.1	ug/L	55		SW846 8270C
	100	58.5	ug/L	59	6.1	SW846 8270C
1,2,4-Trichloro- benzene	100	67.1	ug/L	67		SW846 8270C
	100	68.5	ug/L	69	2.2	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	62	(54 - 105)
	64	(54 - 105)
Phenol-d5	64	(55 - 106)
	65	(55 - 106)
Nitrobenzene-d5	61	(58 - 108)
	61	(58 - 108)
2-Fluorobiphenyl	59	(53 - 97)
	59	(53 - 97)
2,4,6-Tribromophenol	72	(62 - 113)
	74	(62 - 113)
Terphenyl-d14	59	(55 - 109)

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: D4C310153      Work Order #...: GDEXW1AC-LCS      Matrix.....: WATER  
LCS Lot-Sample#: D4D020000-267      GDEXW1AD-LCSD

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
	62	(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 #...: D4C310153  
MB Lot-Sample #: D4C310000-410

Work Order #...: GC9FX1AA

Matrix.....: WATER

Analysis Date...: 04/15/04  
Dilution Factor: 1

Prep Date.....: 03/31/04

Analysis Time...: 17:35

Prep Batch #...: 4091410

PARAMETER	RESULT	REPORTING			METHOD
		LIMIT	UNITS		
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

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Decachlorobiphenyl	88	(12 - 153)
Tetrachloro-m-xylene	87	(55 - 113)

### NOTE(S):

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

# LABORATORY CONTROL SAMPLE EVALUATION REPORT

## GC Semivolatiles

Client Lot #....: D4C310153      Work Order #....: GC9FX1AC-LCS      Matrix.....: WATER  
 LCS Lot-Sample#: D4C310000-410      GC9FX1AD-LCSD  
 Prep Date.....: 03/31/04      Analysis Date...: 04/15/04  
 Prep Batch #....: 4091410      Analysis Time...: 16:09  
 Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aldrin	97	(56 - 126)			SW846 8081A
	96	(56 - 126)	0.49	(0-30)	SW846 8081A
gamma-BHC (Lindane)	100	(72 - 126)			SW846 8081A
	100	(72 - 126)	0.54	(0-30)	SW846 8081A
4,4'-DDT	93	(76 - 135)			SW846 8081A
	94	(76 - 135)	0.88	(0-30)	SW846 8081A
Dieldrin	99	(80 - 132)			SW846 8081A
	100	(80 - 132)	0.77	(0-30)	SW846 8081A
Endrin	84	(63 - 144)			SW846 8081A
	83	(63 - 144)	1.3	(0-30)	SW846 8081A
Heptachlor	94	(63 - 124)			SW846 8081A
	95	(63 - 124)	0.78	(0-30)	SW846 8081A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	83	(56 - 136)
	89	(56 - 136)
Tetrachloro-m-xylene	83	(49 - 111)
	84	(49 - 111)

### 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 #....: D4C310153      Work Order #....: GC9FX1AC-LCS      Matrix.....: WATER  
 LCS Lot-Sample#: D4C310000-410      GC9FX1AD-LCSD  
 Prep Date.....: 03/31/04      Analysis Date...: 04/15/04  
 Prep Batch #....: 4091410      Analysis Time...: 16:09  
 Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Aldrin	0.500	0.485	ug/L	97		SW846 8081A
	0.500	0.482	ug/L	96	0.49	SW846 8081A
gamma-BHC (Lindane)	0.500	0.498	ug/L	100		SW846 8081A
	0.500	0.500	ug/L	100	0.54	SW846 8081A
4,4'-DDT	0.500	0.464	ug/L	93		SW846 8081A
	0.500	0.468	ug/L	94	0.88	SW846 8081A
Dieldrin	0.500	0.496	ug/L	99		SW846 8081A
	0.500	0.499	ug/L	100	0.77	SW846 8081A
Endrin	0.500	0.420	ug/L	84		SW846 8081A
	0.500	0.414	ug/L	83	1.3	SW846 8081A
Heptachlor	0.500	0.469	ug/L	94		SW846 8081A
	0.500	0.473	ug/L	95	0.78	SW846 8081A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	83	(56 - 136)
	89	(56 - 136)
Tetrachloro-m-xylene	83	(49 - 111)
	84	(49 - 111)

### 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 #....: D4C310153  
MB Lot-Sample #: D4C310000-394

Work Order #....: GC9D31AA

Matrix.....: WATER

Analysis Date...: 04/01/04  
Dilution Factor: 1

Prep Date.....: 03/31/04  
Prep Batch #....: 4091394

Analysis Time...: 16:36

PARAMETER	RESULT	REPORTING		
		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	93	(51 - 122)
Decachlorobiphenyl	94	(41 - 138)

### NOTE(S):

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

# LABORATORY CONTROL SAMPLE EVALUATION REPORT

## GC Semivolatiles

Client Lot #....: D4C310153      Work Order #....: GC9D31AC-LCS      Matrix.....: WATER  
 LCS Lot-Sample#: D4C310000-394      GC9D31AD-LCSD  
 Prep Date.....: 03/31/04      Analysis Date...: 04/01/04  
 Prep Batch #....: 4091394      Analysis Time...: 17:02  
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Aroclor 1016	118	(58 - 128)			SW846 8082
	122	(58 - 128)	3.0	(0-30)	SW846 8082
Aroclor 1260	106	(69 - 140)			SW846 8082
	108	(69 - 140)	1.9	(0-30)	SW846 8082

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Tetrachloro-m-xylene	92	(42 - 120)
	98	(42 - 120)
Decachlorobiphenyl	96	(56 - 136)
	92	(56 - 136)

### 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 #....: D4C310153      Work Order #....: GC9D31AC-LCS      Matrix.....: WATER  
 LCS Lot-Sample#: D4C310000-394      GC9D31AD-LCSD  
 Prep Date.....: 03/31/04      Analysis Date...: 04/01/04  
 Prep Batch #....: 4091394      Analysis Time...: 17:02  
 Dilution Factor: 1

<u>PARAMETER</u>	<u>SPIKE</u> <u>AMOUNT</u>	<u>MEASURED</u> <u>AMOUNT</u>	<u>UNITS</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RPD</u>	<u>METHOD</u>
Aroclor 1016	2.00	2.36	ug/L	118		SW846 8082
	2.00	2.44	ug/L	122	3.0	SW846 8082
Aroclor 1260	2.00	2.13	ug/L	106		SW846 8082
	2.00	2.17	ug/L	108	1.9	SW846 8082

  

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
Tetrachloro-m-xylene	92	(42 - 120)
	98	(42 - 120)
Decachlorobiphenyl	96	(56 - 136)
	92	(56 - 136)

### 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 #...: D4C310153  
MB Lot-Sample #: D4D050000-147

Work Order #...: GDH0G1AA

Matrix.....: WATER

Analysis Date...: 04/12/04  
Dilution Factor: 1

Prep Date.....: 04/05/04

Analysis Time...: 18:38

Prep Batch #...: 4096147

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
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
Sulfotepp	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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Chlormefos	109	(48 - 114)
Ethyl Pirimifos	82	(68 - 98)

### NOTE(S):

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

# LABORATORY CONTROL SAMPLE EVALUATION REPORT

## GC Semivolatiles

Client Lot #...: D4C310153      Work Order #...: GDH0G1AC-LCS      Matrix.....: WATER  
 LCS Lot-Sample#: D4D050000-147      GDH0G1AD-LCSD  
 Prep Date.....: 04/05/04      Analysis Date...: 04/12/04  
 Prep Batch #...: 4096147      Analysis Time...: 19:11  
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Demeton (total)	77	(47 - 100)			SW846 8141A
	73	(47 - 100)	4.7	(0-40)	SW846 8141A
Diazinon	103	(70 - 103)			SW846 8141A
	96	(70 - 103)	6.7	(0-40)	SW846 8141A
Ethyl parathion	79	(49 - 122)			SW846 8141A
	86	(49 - 122)	8.5	(0-40)	SW846 8141A
Malathion	69	(56 - 106)			SW846 8141A
	73	(56 - 106)	6.4	(0-40)	SW846 8141A
Methyl parathion	80	(68 - 105)			SW846 8141A
	85	(68 - 105)	5.7	(0-40)	SW846 8141A
Phorate	99	(62 - 104)			SW846 8141A
	92	(62 - 104)	6.9	(0-40)	SW846 8141A

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Chlormefos	104	(48 - 114)
	95	(48 - 114)
Ethyl Pirimifos	83	(68 - 98)
	82	(68 - 98)

### 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 #....: D4C310153      Work Order #....: GDH0G1AC-LCS      Matrix.....: WATER  
 LCS Lot-Sample#: D4D050000-147      GDH0G1AD-LCSD  
 Prep Date.....: 04/05/04      Analysis Date...: 04/12/04  
 Prep Batch #....: 4096147      Analysis Time...: 19:11  
 Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Demeton (total)	4.00	3.06	ug/L	77		SW846 8141A
	4.00	2.92	ug/L	73	4.7	SW846 8141A
Diazinon	4.00	4.10	ug/L	103		SW846 8141A
	4.00	3.84	ug/L	96	6.7	SW846 8141A
Ethyl parathion	4.00	3.15	ug/L	79		SW846 8141A
	4.00	3.43	ug/L	86	8.5	SW846 8141A
Malathion	4.00	2.75	ug/L	69		SW846 8141A
	4.00	2.93	ug/L	73	6.4	SW846 8141A
Methyl parathion	4.00	3.22	ug/L	80		SW846 8141A
	4.00	3.41	ug/L	85	5.7	SW846 8141A
Phorate	4.00	3.96	ug/L	99		SW846 8141A
	4.00	3.69	ug/L	92	6.9	SW846 8141A
SURROGATE			PERCENT RECOVERY	RECOVERY LIMITS		
Chlormefos			104	(48 - 114)		
			95	(48 - 114)		
Ethyl Pirimifos			83	(68 - 98)		
			82	(68 - 98)		

### 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 #....: D4C310153

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: D4D010000-277 Prep Batch #....: 4092277						
Mercury	ND	0.20	ug/L	SW846 7470A	04/06/04	GDA841AA
		Dilution Factor: 1				
		Analysis Time...: 17:15				
MB Lot-Sample #: D4D010000-620 Prep Batch #....: 4092620						
Aluminum	42 B	100	ug/L	SW846 6010B	04/06-04/29/04	GDD581AA
		Dilution Factor: 1				
		Analysis Time...: 03:00				
Antimony	ND	10	ug/L	SW846 6010B	04/06-04/17/04	GDD581C9
		Dilution Factor: 1				
		Analysis Time...: 08:42				
Arsenic	ND	15	ug/L	SW846 6010B	04/06-04/17/04	GDD581C2
		Dilution Factor: 1				
		Analysis Time...: 08:42				
Barium	ND	10	ug/L	SW846 6010B	04/06-04/17/04	GDD581AC
		Dilution Factor: 1				
		Analysis Time...: 08:42				
Beryllium	ND	5.0	ug/L	SW846 6010B	04/06-04/17/04	GDD581AD
		Dilution Factor: 1				
		Analysis Time...: 08:42				
Boron	ND	100	ug/L	SW846 6010B	04/06-04/29/04	GDD581C3
		Dilution Factor: 1				
		Analysis Time...: 03:00				
Cadmium	ND	5.0	ug/L	SW846 6010B	04/06-04/17/04	GDD581C4
		Dilution Factor: 1				
		Analysis Time...: 08:42				
Chromium	ND	10	ug/L	SW846 6010B	04/06-04/17/04	GDD581C6
		Dilution Factor: 1				
		Analysis Time...: 08:42				
Cobalt	ND	10	ug/L	SW846 6010B	04/06-04/17/04	GDD581C5
		Dilution Factor: 1				
		Analysis Time...: 08:42				

(Continued on next page)



## METHOD BLANK REPORT

## TOTAL Metals

Client Lot #....: D4C310153

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Copper	ND	10	ug/L	SW846 6010B	04/06-04/17/04	GDD581AF
		Dilution Factor: 1				
		Analysis Time...: 08:42				
Iron	ND	100	ug/L	SW846 6010B	04/06-04/17/04	GDD581AG
		Dilution Factor: 1				
		Analysis Time...: 08:42				
Lead	ND	3.0	ug/L	SW846 6010B	04/06-04/29/04	GDD581C8
		Dilution Factor: 1				
		Analysis Time...: 03:00				
Manganese	ND	10	ug/L	SW846 6010B	04/06-04/17/04	GDD581AJ
		Dilution Factor: 1				
		Analysis Time...: 08:42				
Molybdenum	ND	20	ug/L	SW846 6010B	04/06-04/17/04	GDD581C7
		Dilution Factor: 1				
		Analysis Time...: 08:42				
Nickel	ND	40	ug/L	SW846 6010B	04/06-04/17/04	GDD581AK
		Dilution Factor: 1				
		Analysis Time...: 08:42				
Selenium	ND	15	ug/L	SW846 6010B	04/06-04/17/04	GDD581DA
		Dilution Factor: 1				
		Analysis Time...: 08:42				
Silver	ND	10	ug/L	SW846 6010B	04/06-04/17/04	GDD581C1
		Dilution Factor: 1				
		Analysis Time...: 08:42				
Thallium	ND	10	ug/L	SW846 6010B	04/06-04/17/04	GDD581DC
		Dilution Factor: 1				
		Analysis Time...: 08:42				
Zinc	ND	20	ug/L	SW846 6010B	04/06-04/17/04	GDD581AN
		Dilution Factor: 1				
		Analysis Time...: 08:42				

## 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 #....: D4C310153

Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD RPD	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	PREP- BATCH #
Aluminum	91	(86 - 108)			SW846 6010B	04/06-04/29/04	4092620
	93	(86 - 108)	1.6	(0-20)	SW846 6010B	04/06-04/29/04	4092620
		Dilution Factor: 1			Analysis Time...: 03:04		
Antimony	95	(88 - 108)			SW846 6010B	04/06-04/17/04	4092620
	98	(88 - 108)	3.6	(0-20)	SW846 6010B	04/06-04/17/04	4092620
		Dilution Factor: 1			Analysis Time...: 08:47		
Arsenic	95	(89 - 109)			SW846 6010B	04/06-04/17/04	4092620
	98	(89 - 109)	3.2	(0-20)	SW846 6010B	04/06-04/17/04	4092620
		Dilution Factor: 1			Analysis Time...: 08:47		
Barium	102	(93 - 113)			SW846 6010B	04/06-04/17/04	4092620
	104	(93 - 113)	2.3	(0-20)	SW846 6010B	04/06-04/17/04	4092620
		Dilution Factor: 1			Analysis Time...: 08:47		
Beryllium	94	(88 - 112)			SW846 6010B	04/06-04/17/04	4092620
	97	(88 - 112)	3.5	(0-20)	SW846 6010B	04/06-04/17/04	4092620
		Dilution Factor: 1			Analysis Time...: 08:47		
Boron	93	(89 - 110)			SW846 6010B	04/06-04/29/04	4092620
	96	(89 - 110)	3.1	(0-20)	SW846 6010B	04/06-04/29/04	4092620
		Dilution Factor: 1			Analysis Time...: 03:04		
Cadmium	92	(89 - 110)			SW846 6010B	04/06-04/17/04	4092620
	96	(89 - 110)	4.0	(0-20)	SW846 6010B	04/06-04/17/04	4092620
		Dilution Factor: 1			Analysis Time...: 08:47		
Chromium	98	(89 - 112)			SW846 6010B	04/06-04/17/04	4092620
	102	(89 - 112)	3.2	(0-20)	SW846 6010B	04/06-04/17/04	4092620
		Dilution Factor: 1			Analysis Time...: 08:47		
Cobalt	96	(86 - 107)			SW846 6010B	04/06-04/17/04	4092620
	99	(86 - 107)	3.0	(0-20)	SW846 6010B	04/06-04/17/04	4092620
		Dilution Factor: 1			Analysis Time...: 08:47		
Copper	95	(86 - 110)			SW846 6010B	04/06-04/17/04	4092620
	97	(86 - 110)	2.5	(0-20)	SW846 6010B	04/06-04/17/04	4092620
		Dilution Factor: 1			Analysis Time...: 08:47		

(Continued on next page)

# LABORATORY CONTROL SAMPLE EVALUATION REPORT

## TOTAL Metals

Lot-Sample #...: D4C310153

Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	PREP- BATCH #
Iron	98	(88 - 110)		SW846 6010B	04/06-04/17/04	4092620
	103	(88 - 110)	4.6 (0-20)	SW846 6010B	04/06-04/17/04	4092620
		Dilution Factor: 1		Analysis Time...: 08:47		
Lead	93	(91 - 111)		SW846 6010B	04/06-04/29/04	4092620
	96	(91 - 111)	2.8 (0-20)	SW846 6010B	04/06-04/29/04	4092620
		Dilution Factor: 1		Analysis Time...: 03:04		
Manganese	98	(90 - 110)		SW846 6010B	04/06-04/17/04	4092620
	101	(90 - 110)	3.1 (0-20)	SW846 6010B	04/06-04/17/04	4092620
		Dilution Factor: 1		Analysis Time...: 08:47		
Molybdenum	95	(83 - 109)		SW846 6010B	04/06-04/17/04	4092620
	99	(83 - 109)	4.0 (0-20)	SW846 6010B	04/06-04/17/04	4092620
		Dilution Factor: 1		Analysis Time...: 08:47		
Nickel	96	(90 - 110)		SW846 6010B	04/06-04/17/04	4092620
	99	(90 - 110)	3.0 (0-20)	SW846 6010B	04/06-04/17/04	4092620
		Dilution Factor: 1		Analysis Time...: 08:47		
Selenium	97	(88 - 110)		SW846 6010B	04/06-04/17/04	4092620
	100	(88 - 110)	2.8 (0-20)	SW846 6010B	04/06-04/17/04	4092620
		Dilution Factor: 1		Analysis Time...: 08:47		
Silver	98	(85 - 114)		SW846 6010B	04/06-04/17/04	4092620
	101	(85 - 114)	3.2 (0-20)	SW846 6010B	04/06-04/17/04	4092620
		Dilution Factor: 1		Analysis Time...: 08:47		
Thallium	98	(88 - 108)		SW846 6010B	04/06-04/17/04	4092620
	101	(88 - 108)	3.3 (0-20)	SW846 6010B	04/06-04/17/04	4092620
		Dilution Factor: 1		Analysis Time...: 08:47		
Zinc	96	(85 - 110)		SW846 6010B	04/06-04/17/04	4092620
	99	(85 - 110)	3.0 (0-20)	SW846 6010B	04/06-04/17/04	4092620
		Dilution Factor: 1		Analysis Time...: 08:47		

### NOTE(S) :

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

# LABORATORY CONTROL SAMPLE DATA REPORT

## TOTAL Metals

Lot-Sample #....: D4C310153

Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Aluminum	2000	1820	ug/L	91		SW846 6010B	04/06-04/29/04	4092620
	2000	1850	ug/L	93	1.6	SW846 6010B	04/06-04/29/04	4092620
			Dilution Factor: 1			Analysis Time...: 03:04		
Antimony	500	475	ug/L	95		SW846 6010B	04/06-04/17/04	4092620
	500	492	ug/L	98	3.6	SW846 6010B	04/06-04/17/04	4092620
			Dilution Factor: 1			Analysis Time...: 08:47		
Arsenic	2000	1900	ug/L	95		SW846 6010B	04/06-04/17/04	4092620
	2000	1970	ug/L	98	3.2	SW846 6010B	04/06-04/17/04	4092620
			Dilution Factor: 1			Analysis Time...: 08:47		
Barium	2000	2030	ug/L	102		SW846 6010B	04/06-04/17/04	4092620
	2000	2080	ug/L	104	2.3	SW846 6010B	04/06-04/17/04	4092620
			Dilution Factor: 1			Analysis Time...: 08:47		
Beryllium	50.0	46.9	ug/L	94		SW846 6010B	04/06-04/17/04	4092620
	50.0	48.5	ug/L	97	3.5	SW846 6010B	04/06-04/17/04	4092620
			Dilution Factor: 1			Analysis Time...: 08:47		
Boron	1000	930	ug/L	93		SW846 6010B	04/06-04/29/04	4092620
	1000	959	ug/L	96	3.1	SW846 6010B	04/06-04/29/04	4092620
			Dilution Factor: 1			Analysis Time...: 03:04		
Cadmium	50.0	46.0	ug/L	92		SW846 6010B	04/06-04/17/04	4092620
	50.0	47.9	ug/L	96	4.0	SW846 6010B	04/06-04/17/04	4092620
			Dilution Factor: 1			Analysis Time...: 08:47		
Chromium	200	197	ug/L	98		SW846 6010B	04/06-04/17/04	4092620
	200	203	ug/L	102	3.2	SW846 6010B	04/06-04/17/04	4092620
			Dilution Factor: 1			Analysis Time...: 08:47		
Cobalt	500	478	ug/L	96		SW846 6010B	04/06-04/17/04	4092620
	500	493	ug/L	99	3.0	SW846 6010B	04/06-04/17/04	4092620
			Dilution Factor: 1			Analysis Time...: 08:47		
Copper	250	236	ug/L	95		SW846 6010B	04/06-04/17/04	4092620
	250	242	ug/L	97	2.5	SW846 6010B	04/06-04/17/04	4092620
			Dilution Factor: 1			Analysis Time...: 08:47		

(Continued on next page)

# LABORATORY CONTROL SAMPLE DATA REPORT

## TOTAL Metals

Lot-Sample #....: D4C310153

Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Iron	1000	984	ug/L	98		SW846 6010B	04/06-04/17/04	4092620
	1000	1030	ug/L	103	4.6	SW846 6010B	04/06-04/17/04	4092620
			Dilution Factor: 1			Analysis Time...: 08:47		
Lead	500	467	ug/L	93		SW846 6010B	04/06-04/29/04	4092620
	500	481	ug/L	96	2.8	SW846 6010B	04/06-04/29/04	4092620
			Dilution Factor: 1			Analysis Time...: 03:04		
Manganese	500	490	ug/L	98		SW846 6010B	04/06-04/17/04	4092620
	500	505	ug/L	101	3.1	SW846 6010B	04/06-04/17/04	4092620
			Dilution Factor: 1			Analysis Time...: 08:47		
Molybdenum	1000	951	ug/L	95		SW846 6010B	04/06-04/17/04	4092620
	1000	990	ug/L	99	4.0	SW846 6010B	04/06-04/17/04	4092620
			Dilution Factor: 1			Analysis Time...: 08:47		
Nickel	500	479	ug/L	96		SW846 6010B	04/06-04/17/04	4092620
	500	493	ug/L	99	3.0	SW846 6010B	04/06-04/17/04	4092620
			Dilution Factor: 1			Analysis Time...: 08:47		
Selenium	2000	1940	ug/L	97		SW846 6010B	04/06-04/17/04	4092620
	2000	2000	ug/L	100	2.8	SW846 6010B	04/06-04/17/04	4092620
			Dilution Factor: 1			Analysis Time...: 08:47		
Silver	50.0	49.0	ug/L	98		SW846 6010B	04/06-04/17/04	4092620
	50.0	50.6	ug/L	101	3.2	SW846 6010B	04/06-04/17/04	4092620
			Dilution Factor: 1			Analysis Time...: 08:47		
Thallium	2000	1960	ug/L	98		SW846 6010B	04/06-04/17/04	4092620
	2000	2030	ug/L	101	3.3	SW846 6010B	04/06-04/17/04	4092620
			Dilution Factor: 1			Analysis Time...: 08:47		
Zinc	500	478	ug/L	96		SW846 6010B	04/06-04/17/04	4092620
	500	493	ug/L	99	3.0	SW846 6010B	04/06-04/17/04	4092620
			Dilution Factor: 1			Analysis Time...: 08:47		

### NOTE(S) :

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

# LABORATORY CONTROL SAMPLE EVALUATION REPORT

## TOTAL Metals

Client Lot #....: D4C310153

Matrix.....: WATER

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
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LCS Lot-Sample#: D4D010000-277 Prep Batch #....: 4092277

Mercury	99	(84 - 114)	SW846 7470A	04/06/04	GDA841AC
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Dilution Factor: 1 Analysis Time...: 17:17

### NOTE(S) :

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

# LABORATORY CONTROL SAMPLE DATA REPORT

## TOTAL Metals

Client Lot #....: D4C310153

Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
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LCS Lot-Sample#: D4D010000-277 Prep Batch #....: 4092277

Mercury	5.00	4.95	ug/L	99	SW846 7470A	04/06/04	GDA841AC
Dilution Factor: 1				Analysis Time...: 17:17			

### NOTE(S):

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

# MATRIX SPIKE SAMPLE EVALUATION REPORT

## TOTAL Metals

Client Lot #....: D4C310153

Matrix.....: WATER

Date Sampled...: 03/29/04 15:20 Date Received...: 03/30/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #:	D4C300202-006 Prep Batch #...: 4092277					
Mercury	95	(84 - 114)		SW846 7470A	04/06/04	GC63M1AV
	95	(84 - 114) 0.63 (0-10)		SW846 7470A	04/06/04	GC63M1AW

Dilution Factor: 1

Analysis Time...: 17:29

### NOTE(S):

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



# MATRIX SPIKE SAMPLE DATA REPORT

## TOTAL Metals

Client Lot #...: D4C310153

Matrix.....: WATER

Date Sampled...: 03/29/04 15:20 Date Received...: 03/30/04

PARAMETER	AMOUNT	SAMPLE SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
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MS Lot-Sample #: D4C300202-006 Prep Batch #...: 4092277

Mercury

ND	5.00	4.73	ug/L	95			SW846 7470A	04/06/04	GC63M1F
ND	5.00	4.76	ug/L	95	0.63		SW846 7470A	04/06/04	GC63M1F

Dilution Factor: 1

Analysis Time...: 17:29

### NOTE(S):

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

# MATRIX SPIKE SAMPLE EVALUATION REPORT

## TOTAL Metals

Client Lot #....: D4C310153

Matrix.....: WATER

Date Sampled....: 03/29/04 10:40 Date Received...: 03/30/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: D4C300171-001 Prep Batch #....: 4092620						
Aluminum	103	(83 - 119)		SW846 6010B	04/06-04/29/04	GC6T51A8
	113	(83 - 119) 6.7	(0-25)	SW846 6010B	04/06-04/29/04	GC6T51A9
		Dilution Factor: 1				
		Analysis Time...: 03:28				
Antimony	97	(81 - 124)		SW846 6010B	04/06-04/17/04	GC6T51D7
	97	(81 - 124) 0.06	(0-25)	SW846 6010B	04/06-04/17/04	GC6T51D8
		Dilution Factor: 1				
		Analysis Time...: 09:10				
Arsenic	97	(84 - 124)		SW846 6010B	04/06-04/17/04	GC6T51DH
	97	(84 - 124) 0.56	(0-25)	SW846 6010B	04/06-04/17/04	GC6T51DJ
		Dilution Factor: 1				
		Analysis Time...: 09:10				
Barium	104	(85 - 120)		SW846 6010B	04/06-04/17/04	GC6T51CA
	105	(85 - 120) 1.2	(0-25)	SW846 6010B	04/06-04/17/04	GC6T51CC
		Dilution Factor: 1				
		Analysis Time...: 09:10				
Beryllium	94	(79 - 121)		SW846 6010B	04/06-04/17/04	GC6T51CD
	96	(79 - 121) 1.1	(0-25)	SW846 6010B	04/06-04/17/04	GC6T51CE
		Dilution Factor: 1				
		Analysis Time...: 09:10				
Boron	96	(87 - 113)		SW846 6010B	04/06-04/29/04	GC6T51DL
	96	(87 - 113) 0.76	(0-25)	SW846 6010B	04/06-04/29/04	GC6T51DM
		Dilution Factor: 1				
		Analysis Time...: 03:28				
Cadmium	94	(82 - 119)		SW846 6010B	04/06-04/17/04	GC6T51DP
	94	(82 - 119) 0.51	(0-25)	SW846 6010B	04/06-04/17/04	GC6T51DQ
		Dilution Factor: 1				
		Analysis Time...: 09:10				
Chromium	99	(73 - 135)		SW846 6010B	04/06-04/17/04	GC6T51DW
	100	(73 - 135) 1.2	(0-25)	SW846 6010B	04/06-04/17/04	GC6T51DX
		Dilution Factor: 1				
		Analysis Time...: 09:10				

(Continued on next page)

# MATRIX SPIKE SAMPLE EVALUATION REPORT

## TOTAL Metals

Client Lot #....: D4C310153

Matrix.....: WATER

Date Sampled....: 03/29/04 10:40 Date Received...: 03/30/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Cobalt	96	(82 - 119)			SW846 6010B	04/06-04/17/04	GC6T51DT
	97	(82 - 119)	1.2	(0-25)	SW846 6010B	04/06-04/17/04	GC6T51DU
		Dilution Factor: 1					
		Analysis Time...: 09:10					
Copper	98	(82 - 129)			SW846 6010B	04/06-04/17/04	GC6T51CH
	100	(82 - 129)	1.4	(0-25)	SW846 6010B	04/06-04/17/04	GC6T51CJ
		Dilution Factor: 1					
		Analysis Time...: 09:10					
Iron	106	(52 - 155)			SW846 6010B	04/06-04/17/04	GC6T51CK
	121	(52 - 155)	6.7	(0-25)	SW846 6010B	04/06-04/17/04	GC6T51CL
		Dilution Factor: 1					
		Analysis Time...: 09:10					
Lead	96	(89 - 121)			SW846 6010B	04/06-04/29/04	GC6T51D4
	95	(89 - 121)	0.69	(0-25)	SW846 6010B	04/06-04/29/04	GC6T51D5
		Dilution Factor: 1					
		Analysis Time...: 03:28					
Manganese	98	(79 - 121)			SW846 6010B	04/06-04/17/04	GC6T51CP
	100	(79 - 121)	1.2	(0-25)	SW846 6010B	04/06-04/17/04	GC6T51CQ
		Dilution Factor: 1					
		Analysis Time...: 09:10					
Molybdenum	97	(83 - 109)			SW846 6010B	04/06-04/17/04	GC6T51D1
	98	(83 - 109)	1.3	(0-25)	SW846 6010B	04/06-04/17/04	GC6T51D2
		Dilution Factor: 1					
		Analysis Time...: 09:10					
Nickel	97	(84 - 120)			SW846 6010B	04/06-04/17/04	GC6T51CR
	98	(84 - 120)	1.1	(0-25)	SW846 6010B	04/06-04/17/04	GC6T51CT
		Dilution Factor: 1					
		Analysis Time...: 09:10					
Selenium	98	(71 - 140)			SW846 6010B	04/06-04/17/04	GC6T51EA
	98	(71 - 140)	0.20	(0-25)	SW846 6010B	04/06-04/17/04	GC6T51EC
		Dilution Factor: 1					
		Analysis Time...: 09:10					
Silver	101	(75 - 141)			SW846 6010B	04/06-04/17/04	GC6T51DE
	100	(75 - 141)	1.3	(0-25)	SW846 6010B	04/06-04/17/04	GC6T51DF
		Dilution Factor: 1					
		Analysis Time...: 09:10					

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# MATRIX SPIKE SAMPLE EVALUATION REPORT

## TOTAL Metals

Client Lot #....: D4C310153

Matrix.....: WATER

Date Sampled....: 03/29/04 10:40 Date Received...: 03/30/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Thallium	100	(90 - 116)		SW846 6010B	04/06-04/17/04	GC6T51EE
	100	(90 - 116)	0.67 (0-25)	SW846 6010B	04/06-04/17/04	GC6T51EF
		Dilution Factor: 1				
		Analysis Time...: 09:10				
Zinc	100	(60 - 137)		SW846 6010B	04/06-04/17/04	GC6T51C0
	97	(60 - 137)	2.3 (0-25)	SW846 6010B	04/06-04/17/04	GC6T51C1
		Dilution Factor: 1				
		Analysis Time...: 09:10				

### NOTE(S) :

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

# MATRIX SPIKE SAMPLE DATA REPORT

## TOTAL Metals

Client Lot #....: D4C310153

Matrix.....: WATER

Date Sampled...: 03/29/04 10:40 Date Received...: 03/30/04

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: D4C300171-001 Prep Batch #....: 4092620									
Aluminum									
	870	2000	2920	ug/L	103		SW846 6010B	04/06-04/29/04	GC6T51A
	870	2000	3120	ug/L	113	6.7	SW846 6010B	04/06-04/29/04	GC6T51A
Dilution Factor: 1									
Analysis Time...: 03:28									
Antimony									
	ND	500	485	ug/L	97		SW846 6010B	04/06-04/17/04	GC6T51D
	ND	500	486	ug/L	97	0.06	SW846 6010B	04/06-04/17/04	GC6T51D
Dilution Factor: 1									
Analysis Time...: 09:10									
Arsenic									
	ND	2000	1930	ug/L	97		SW846 6010B	04/06-04/17/04	GC6T51D
	ND	2000	1940	ug/L	97	0.56	SW846 6010B	04/06-04/17/04	GC6T51D
Dilution Factor: 1									
Analysis Time...: 09:10									
Barium									
	92	2000	2160	ug/L	104		SW846 6010B	04/06-04/17/04	GC6T51C
	92	2000	2190	ug/L	105	1.2	SW846 6010B	04/06-04/17/04	GC6T51C
Dilution Factor: 1									
Analysis Time...: 09:10									
Beryllium									
	ND	50.0	47.2	ug/L	94		SW846 6010B	04/06-04/17/04	GC6T51C
	ND	50.0	47.8	ug/L	96	1.1	SW846 6010B	04/06-04/17/04	GC6T51C
Dilution Factor: 1									
Analysis Time...: 09:10									
Boron									
	10	1000	974	ug/L	96		SW846 6010B	04/06-04/29/04	GC6T51D
	10	1000	966	ug/L	96	0.76	SW846 6010B	04/06-04/29/04	GC6T51D
Dilution Factor: 1									
Analysis Time...: 03:28									
Cadmium									
	ND	50.0	46.8	ug/L	94		SW846 6010B	04/06-04/17/04	GC6T51D
	ND	50.0	47.0	ug/L	94	0.51	SW846 6010B	04/06-04/17/04	GC6T51D
Dilution Factor: 1									
Analysis Time...: 09:10									

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# MATRIX SPIKE SAMPLE DATA REPORT

## TOTAL Metals

Client Lot #....: D4C310153

Matrix.....: WATER

Date Sampled....: 03/29/04 10:40 Date Received...: 03/30/04

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
<b>Chromium</b>									
	15	200	213	ug/L	99		SW846 6010B	04/06-04/17/04	GC6T51DW
	15	200	216	ug/L	100	1.2	SW846 6010B	04/06-04/17/04	GC6T51DX
Dilution Factor: 1									
Analysis Time...: 09:10									
<b>Cobalt</b>									
	1.2	500	483	ug/L	96		SW846 6010B	04/06-04/17/04	GC6T51DT
	1.2	500	488	ug/L	97	1.2	SW846 6010B	04/06-04/17/04	GC6T51DU
Dilution Factor: 1									
Analysis Time...: 09:10									
<b>Copper</b>									
	1.7	250	247	ug/L	98		SW846 6010B	04/06-04/17/04	GC6T51CH
	1.7	250	251	ug/L	100	1.4	SW846 6010B	04/06-04/17/04	GC6T51CJ
Dilution Factor: 1									
Analysis Time...: 09:10									
<b>Iron</b>									
	1200	1000	2260	ug/L	106		SW846 6010B	04/06-04/17/04	GC6T51CK
	1200	1000	2410	ug/L	121	6.7	SW846 6010B	04/06-04/17/04	GC6T51CL
Dilution Factor: 1									
Analysis Time...: 09:10									
<b>Lead</b>									
	3.5	500	484	ug/L	96		SW846 6010B	04/06-04/29/04	GC6T51D4
	3.5	500	480	ug/L	95	0.69	SW846 6010B	04/06-04/29/04	GC6T51D5
Dilution Factor: 1									
Analysis Time...: 03:28									
<b>Manganese</b>									
	77	500	569	ug/L	98		SW846 6010B	04/06-04/17/04	GC6T51CP
	77	500	576	ug/L	100	1.2	SW846 6010B	04/06-04/17/04	GC6T51CQ
Dilution Factor: 1									
Analysis Time...: 09:10									
<b>Molybdenum</b>									
	3.4	1000	971	ug/L	97		SW846 6010B	04/06-04/17/04	GC6T51D1
	3.4	1000	983	ug/L	98	1.3	SW846 6010B	04/06-04/17/04	GC6T51D2
Dilution Factor: 1									
Analysis Time...: 09:10									

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# MATRIX SPIKE SAMPLE DATA REPORT

## TOTAL Metals

Client Lot #....: D4C310153

Matrix.....: WATER

Date Sampled...: 03/29/04 10:40 Date Received...: 03/30/04

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Nickel									
	17	500	502	ug/L	97		SW846 6010B	04/06-04/17/04	GC6T51CF
	17	500	507	ug/L	98	1.1	SW846 6010B	04/06-04/17/04	GC6T51C7
Dilution Factor: 1									
Analysis Time...: 09:10									
Selenium									
	5.6	2000	1960	ug/L	98		SW846 6010B	04/06-04/17/04	GC6T51E7
	5.6	2000	1960	ug/L	98	0.20	SW846 6010B	04/06-04/17/04	GC6T51E0
Dilution Factor: 1									
Analysis Time...: 09:10									
Silver									
	ND	50.0	51.1	ug/L	101		SW846 6010B	04/06-04/17/04	GC6T51D7
	ND	50.0	50.4	ug/L	100	1.3	SW846 6010B	04/06-04/17/04	GC6T51D7
Dilution Factor: 1									
Analysis Time...: 09:10									
Thallium									
	ND	2000	2000	ug/L	100		SW846 6010B	04/06-04/17/04	GC6T51E7
	ND	2000	2010	ug/L	100	0.67	SW846 6010B	04/06-04/17/04	GC6T51E7
Dilution Factor: 1									
Analysis Time...: 09:10									
Zinc									
	9.1	500	507	ug/L	100		SW846 6010B	04/06-04/17/04	GC6T51C0
	9.1	500	495	ug/L	97	2.3	SW846 6010B	04/06-04/17/04	GC6T51C3
Dilution Factor: 1									
Analysis Time...: 09:10									

### NOTE(S):

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

# METHOD BLANK REPORT

## General Chemistry

Client Lot #....: D4C310153

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chemical Oxygen Demand (COD)	4.2 B	20	mg/L	MCAWW 410.4	04/08/04	4099309
		Dilution Factor: 1				
		Analysis Time...: 11:15				
Chloride	ND	3.0	mg/L	MCAWW 300.0A	03/31/04	4092263
		Dilution Factor: 1				
		Analysis Time...: 15:19				
Fecal Coliform	ND	1.0	CFU/100m	SM18 9222D Fecal	03/31/04	4096595
		Dilution Factor: 1				
		Analysis Time...: 11:00				
Fluoride	ND	1.0	mg/L	MCAWW 300.0A	03/31/04	4092264
		Dilution Factor: 1				
		Analysis Time...: 15:19				
Nitrate	ND	0.50	mg/L	MCAWW 300.0A	03/31/04	4092265
		Dilution Factor: 1				
		Analysis Time...: 15:19				
Nitrite	ND	0.50	mg/L	MCAWW 300.0A	03/31/04	4092266
		Dilution Factor: 1				
		Analysis Time...: 15:19				
Specific Conductance	ND	2.0	umhos/cm	MCAWW 120.1	04/09/04	4103197
		Dilution Factor: 1				
		Analysis Time...: 16:00				
Sulfate	ND	5.0	mg/L	MCAWW 300.0A	03/31/04	4092262
		Dilution Factor: 1				
		Analysis Time...: 15:19				
Total Coliform	ND	1.0	CFU/100m	SM18 9222B	03/31/04	4096596
		Dilution Factor: 1				
		Analysis Time...: 11:00				

(Continued on next page)



# METHOD BLANK REPORT

## General Chemistry

Client Lot #....: D4C310153

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Total Cyanide	ND	Work Order #: GDKDGLAA 0.010	mg/L	MB Lot-Sample #: D4D050000-601 MCAWW 335.3	04/05/04	4096601
		Dilution Factor: 1				
		Analysis Time...: 14:00				
Total Dissolved Solids	ND	Work Order #: GDJ5M1AA 10	mg/L	MB Lot-Sample #: D4D020000-379 MCAWW 160.1	04/02/04	4093379
		Dilution Factor: 1				
		Analysis Time...: 12:30				
Total Suspended Solids	ND	Work Order #: GDF141AA 4.0	mg/L	MB Lot-Sample #: D4D010000-561 MCAWW 160.2	04/01/04	4092561
		Dilution Factor: 1				
		Analysis Time...: 18:00				

### 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

## General Chemistry

Lot-Sample #...: D4C310153

Matrix.....: WATER

	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
PARAMETER	RECOVERY	LIMITS	RPD	LIMITS	METHOD	ANALYSIS DATE	BATCH #
Chemical Oxygen Demand (COD)		WO#:GDRJC1AC-LCS/GDRJC1AD-LCSD LCS Lot-Sample#: D4D080000-309					
	102	(86 - 114)			MCAWW 410.4	04/08/04	4099309
	104	(86 - 114) 2.9	(0-11)		MCAWW 410.4	04/08/04	4099309
		Dilution Factor: 1		Analysis Time...: 11:15			
Chloride		WO#:GDW4V1AC-LCS/GDW4V1AD-LCSD LCS Lot-Sample#: D4D010000-263					
	103	(90 - 110)			MCAWW 300.0A	03/31/04	4092263
	101	(90 - 110) 1.9	(0-10)		MCAWW 300.0A	03/31/04	4092263
		Dilution Factor: 1		Analysis Time...: 14:48			
Fluoride		WO#:GDWTA1AC-LCS/GDWTA1AD-LCSD LCS Lot-Sample#: D4D010000-264					
	102	(90 - 110)			MCAWW 300.0A	03/31/04	4092264
	102	(90 - 110) 0.24	(0-10)		MCAWW 300.0A	03/31/04	4092264
		Dilution Factor: 1		Analysis Time...: 14:48			
Nitrate		WO#:GDW541AC-LCS/GDW541AD-LCSD LCS Lot-Sample#: D4D010000-265					
	98	(90 - 110)			MCAWW 300.0A	03/31/04	4092265
	98	(90 - 110) 0.25	(0-10)		MCAWW 300.0A	03/31/04	4092265
		Dilution Factor: 1		Analysis Time...: 14:48			
Nitrite		WO#:GDW5L1AC-LCS/GDW5L1AD-LCSD LCS Lot-Sample#: D4D010000-266					
	102	(90 - 110)			MCAWW 300.0A	03/31/04	4092266
	102	(90 - 110) 0.24	(0-10)		MCAWW 300.0A	03/31/04	4092266
		Dilution Factor: 1		Analysis Time...: 14:48			
Specific Conductance		WO#:GD0WC1AC-LCS/GD0WC1AD-LCSD LCS Lot-Sample#: D4D120000-197					
	103	(89 - 109)			MCAWW 120.1	04/09/04	4103197
	104	(89 - 109) 1.4	(0-7.0)		MCAWW 120.1	04/09/04	4103197
		Dilution Factor: 1		Analysis Time...: 16:00			
Sulfate		WO#:GDA3N1AC-LCS/GDA3N1AD-LCSD LCS Lot-Sample#: D4D010000-262					
	101	(90 - 110)			MCAWW 300.0A	03/31/04	4092262
	100	(90 - 110) 0.49	(0-10)		MCAWW 300.0A	03/31/04	4092262
		Dilution Factor: 1		Analysis Time...: 14:48			
Total Dissolved Solids		WO#:GDJ5M1AC-LCS/GDJ5M1AD-LCSD LCS Lot-Sample#: D4D020000-379					
	97	(86 - 106)			MCAWW 160.1	04/02/04	4093379
	96	(86 - 106) 1.0	(0-20)		MCAWW 160.1	04/02/04	4093379
		Dilution Factor: 1		Analysis Time...: 12:30			

(Continued on next page)

# LABORATORY CONTROL SAMPLE EVALUATION REPORT

## General Chemistry

Lot-Sample #....: D4C310153

Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Total Suspended Solids		WO#:GDF141AC-LCS/GDF141AD-LCSD		LCS Lot-Sample#:	D4D010000-561	
	103	(86 - 114)		MCAWW 160.2	04/01/04	4092561
	107	(86 - 114) 3.3	(0-20)	MCAWW 160.2	04/01/04	4092561
		Dilution Factor: 1		Analysis Time...: 18:00		

### NOTE(S):

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

# LABORATORY CONTROL SAMPLE DATA REPORT

## General Chemistry

Lot-Sample #....: D4C310153

Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVR	RPD	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chemical Oxygen Demand (COD) WO#:GDRJC1AC-LCS/GDRJC1AD-LCSD LCS Lot-Sample#: D4D080000-309								
	100	102	mg/L	102		MCAWW 410.4	04/08/04	4099309
	100	104	mg/L	104	2.9	MCAWW 410.4	04/08/04	4099309
Dilution Factor: 1 Analysis Time...: 11:15								
Chloride WO#:GDW4V1AC-LCS/GDW4V1AD-LCSD LCS Lot-Sample#: D4D010000-263								
	20.0	20.5	mg/L	103		MCAWW 300.0A	03/31/04	4092263
	20.0	20.1	mg/L	101	1.9	MCAWW 300.0A	03/31/04	4092263
Dilution Factor: 1 Analysis Time...: 14:48								
Fluoride WO#:GDWTA1AC-LCS/GDWTA1AD-LCSD LCS Lot-Sample#: D4D010000-264								
	4.00	4.10	mg/L	102		MCAWW 300.0A	03/31/04	4092264
	4.00	4.09	mg/L	102	0.24	MCAWW 300.0A	03/31/04	4092264
Dilution Factor: 1 Analysis Time...: 14:48								
Nitrate WO#:GDW541AC-LCS/GDW541AD-LCSD LCS Lot-Sample#: D4D010000-265								
	4.00	3.94	mg/L	98		MCAWW 300.0A	03/31/04	4092265
	4.00	3.93	mg/L	98	0.25	MCAWW 300.0A	03/31/04	4092265
Dilution Factor: 1 Analysis Time...: 14:48								
Nitrite WO#:GDW5L1AC-LCS/GDW5L1AD-LCSD LCS Lot-Sample#: D4D010000-266								
	4.00	4.07	mg/L	102		MCAWW 300.0A	03/31/04	4092266
	4.00	4.06	mg/L	102	0.24	MCAWW 300.0A	03/31/04	4092266
Dilution Factor: 1 Analysis Time...: 14:48								
Specific Conductance WO#:GD0WC1AC-LCS/GD0WC1AD-LCSD LCS Lot-Sample#: D4D120000-197								
	1410	1450	umhos/cm	103		MCAWW 120.1	04/09/04	4103197
	1410	1470	umhos/cm	104	1.4	MCAWW 120.1	04/09/04	4103197
Dilution Factor: 1 Analysis Time...: 16:00								
Sulfate WO#:GDA3N1AC-LCS/GDA3N1AD-LCSD LCS Lot-Sample#: D4D010000-262								
	20.0	20.2	mg/L	101		MCAWW 300.0A	03/31/04	4092262
	20.0	20.0	mg/L	100	0.49	MCAWW 300.0A	03/31/04	4092262
Dilution Factor: 1 Analysis Time...: 14:48								
Total Dissolved Solids WO#:GDJ5M1AC-LCS/GDJ5M1AD-LCSD LCS Lot-Sample#: D4D020000-379								
	500	485	mg/L	97		MCAWW 160.1	04/02/04	4093379
	500	480	mg/L	96	1.0	MCAWW 160.1	04/02/04	4093379
Dilution Factor: 1 Analysis Time...: 12:30								

(Continued on next page)

# LABORATORY CONTROL SAMPLE DATA REPORT

## General Chemistry

Lot-Sample #...: D4C310153

Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Total Suspended				WO#:GDF141AC-LCS/GDF141AD-LCSD LCS Lot-Sample#: D4D010000-561				
Solids								
	116	120	mg/L	103		MCAWW 160.2	04/01/04	4092561
	116	124	mg/L	107	3.3	MCAWW 160.2	04/01/04	4092561
				Dilution Factor: 1		Analysis Time...: 18:00		

### NOTE(S):

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

# LABORATORY CONTROL SAMPLE EVALUATION REPORT

## General Chemistry

Client Lot #....: D4C310153

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	96	Work Order #: GDKDGIAC (89 - 109)	LCS Lot-Sample#: D4D050000-601 MCAWW 335.3	04/05/04	4096601
		Dilution Factor: 1	Analysis Time...: 14:00		

### NOTE(S) :

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

# LABORATORY CONTROL SAMPLE DATA REPORT

## General Chemistry

Client Lot #....: D4C310153

Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Total Cyanide	0.100	0.0965	mg/L	96	MCAWW 335.3	04/05/04	4096601
Work Order #: GDKDG1AC				LCS Lot-Sample#: D4D050000-601			
Dilution Factor: 1				Analysis Time...: 14:00			

### NOTE(S):

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

# MATRIX SPIKE SAMPLE EVALUATION REPORT

## General Chemistry

Client Lot #....: D4C310153

Matrix.....: WATER

Date Sampled....: 03/29/04 10:20 Date Received...: 03/30/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chemical Oxygen Demand (COD)			WO#:	GC6PG1A2-MS/GC6PG1A3-MSD	MS Lot-Sample #:	D4C300158-001	
	107	(74 - 109)			MCAWW 410.4	04/08/04	4099309
	110 N	(74 - 109)	2.7	(0-11)	MCAWW 410.4	04/08/04	4099309
			Dilution Factor: 1				
			Analysis Time...: 11:15				
Chloride			WO#:	GC8WL1CL-MS/GC8WL1CM-MSD	MS Lot-Sample #:	D4C310153-001	
	104	(80 - 120)			MCAWW 300.0A	03/31/04	4092263
	104	(80 - 120)	0.04	(0-10)	MCAWW 300.0A	03/31/04	4092263
			Dilution Factor: 1				
			Analysis Time...: 16:37				
Fluoride			WO#:	GC8WL1CJ-MS/GC8WL1CK-MSD	MS Lot-Sample #:	D4C310153-001	
	103	(80 - 120)			MCAWW 300.0A	03/31/04	4092264
	103	(80 - 120)	0.0	(0-10)	MCAWW 300.0A	03/31/04	4092264
			Dilution Factor: 1				
			Analysis Time...: 15:50				
Nitrate			WO#:	GC8WL1CQ-MS/GC8WL1CR-MSD	MS Lot-Sample #:	D4C310153-001	
	102	(80 - 120)			MCAWW 300.0A	03/31/04	4092265
	102	(80 - 120)	0.03	(0-10)	MCAWW 300.0A	03/31/04	4092265
			Dilution Factor: 1				
			Analysis Time...: 15:50				
Nitrite			WO#:	GC8WL1CN-MS/GC8WL1CP-MSD	MS Lot-Sample #:	D4C310153-001	
	101	(80 - 120)			MCAWW 300.0A	03/31/04	4092266
	101	(80 - 120)	0.03	(0-10)	MCAWW 300.0A	03/31/04	4092266
			Dilution Factor: 1				
			Analysis Time...: 15:50				
Sulfate			WO#:	GC8WL1CG-MS/GC8WL1CH-MSD	MS Lot-Sample #:	D4C310153-001	
	102	(80 - 120)			MCAWW 300.0A	03/31/04	4092262
	102	(80 - 120)	0.06	(0-10)	MCAWW 300.0A	03/31/04	4092262
			Dilution Factor: 1				
			Analysis Time...: 16:37				
Total Cyanide			WO#:	GDAF11AH-MS/GDAF11AJ-MSD	MS Lot-Sample #:	D4C310358-001	
	92	(78 - 120)			MCAWW 335.3	04/05/04	4096601
	92	(78 - 120)	0.21	(0-20)	MCAWW 335.3	04/05/04	4096601
			Dilution Factor: 1				
			Analysis Time...: 14:00				

### NOTE(S):

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

N Spiked analyte recovery is outside stated control limits.



# MATRIX SPIKE SAMPLE DATA REPORT

## General Chemistry

Client Lot #....: D4C310153

Matrix.....: WATER

Date Sampled....: 03/29/04 10:20 Date Received...: 03/30/04

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chemical Oxygen Demand (COD)			WO#: GC6PG1A2-MS/GC6PG1A3-MSD MS Lot-Sample #: D4C300158-001						
	5.9	50.0	59.3	mg/L	107		MCAWW 410.4	04/08/04	4099309
	5.9	50.0	61.0	N mg/L	110	2.7	MCAWW 410.4	04/08/04	4099309
			Dilution Factor: 1						
			Analysis Time...: 11:15						
Chloride			WO#: GC8WL1CL-MS/GC8WL1CM-MSD MS Lot-Sample #: D4C310153-001						
	1700	2500	4320	mg/L	104		MCAWW 300.0A	03/31/04	4092263
	1700	2500	4330	mg/L	104	0.04	MCAWW 300.0A	03/31/04	4092263
			Dilution Factor: 1						
			Analysis Time...: 16:37						
Fluoride			WO#: GC8WL1CJ-MS/GC8WL1CK-MSD MS Lot-Sample #: D4C310153-001						
	0.81	25.0	26.6	mg/L	103		MCAWW 300.0A	03/31/04	4092264
	0.81	25.0	26.6	mg/L	103	0.0	MCAWW 300.0A	03/31/04	4092264
			Dilution Factor: 1						
			Analysis Time...: 15:50						
Nitrate			WO#: GC8WL1CQ-MS/GC8WL1CR-MSD MS Lot-Sample #: D4C310153-001						
	0.44	25.0	25.9	mg/L	102		MCAWW 300.0A	03/31/04	4092265
	0.44	25.0	25.9	mg/L	102	0.03	MCAWW 300.0A	03/31/04	4092265
			Dilution Factor: 1						
			Analysis Time...: 15:50						
Nitrite			WO#: GC8WL1CN-MS/GC8WL1CP-MSD MS Lot-Sample #: D4C310153-001						
	1.1	25.0	26.3	mg/L	101		MCAWW 300.0A	03/31/04	4092266
	1.1	25.0	26.2	mg/L	101	0.03	MCAWW 300.0A	03/31/04	4092266
			Dilution Factor: 1						
			Analysis Time...: 15:50						
Sulfate			WO#: GC8WL1CG-MS/GC8WL1CH-MSD MS Lot-Sample #: D4C310153-001						
	2400	2500	4960	mg/L	102		MCAWW 300.0A	03/31/04	4092262
	2400	2500	4960	mg/L	102	0.06	MCAWW 300.0A	03/31/04	4092262
			Dilution Factor: 1						
			Analysis Time...: 16:37						
Total Cyanide			WO#: GDAF11AH-MS/GDAF11AJ-MSD MS Lot-Sample #: D4C310358-001						
	ND	0.100	0.0942	mg/L	92		MCAWW 335.3	04/05/04	4096601
	ND	0.100	0.0944	mg/L	92	0.21	MCAWW 335.3	04/05/04	4096601
			Dilution Factor: 1						
			Analysis Time...: 14:00						

### NOTE(S):

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

N Spiked analyte recovery is outside stated control limits.

# SAMPLE DUPLICATE EVALUATION REPORT

## General Chemistry

Client Lot #....: D4C310153

Work Order #....: GC7TQ-SMP  
GC7TQ-DUP

Matrix.....: WATER

Date Sampled....: 03/29/04 09:30 Date Received...: 03/30/04

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Total Suspended Solids	42	42	mg/L	0.0	(0-20)	MCAWW 160.2	04/01/04	409256
			Dilution Factor: 1.25		Analysis Time...: 18:00			

SD Lot-Sample #: D4C300292-009

## General Chemistry

Matrix.....: WATER

Date Sampled....: 03/28/04 11:40 Date Received...: 03/29/04

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# SAMPLE DUPLICATE EVALUATION REPORT

## General Chemistry

Client Lot #...: D4C310153

Work Order #...: GC8WL-SMP  
GC8WL-DUP

Matrix.....: WATER

Date Sampled...: 03/29/04 16:35 Date Received...: 03/31/04

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Specific Conductance	9700	9800	umhos/cm	0.51	(0-7.0)	MCAWW 120.1	04/09/04	4103197
			Dilution Factor: 1	Analysis Time...: 16:00				

SD Lot-Sample #: D4C310153-001



# Chain of Custody Record

36  
VR 3/31/04

SEVERN  
TRENT

STL

Severn Trent Laboratories, Inc.

STL Denver  
4955 Yarrow Street  
Arvada, CO 80002

STL-4124 (0901)		Client <b>Cook-Joyce Inc / L.E.S.</b>		Project Manager <b>Doug Granger (C.J.I.)</b>		Date		Chain of Custody Number <b>299654</b>																				
Address <b>812 W. 11<sup>th</sup></b>		Telephone Number (Area Code)/Fax Number <b>512-474-9097</b>		Lab Number		Page		of																				
City <b>AUSTIN</b>	State <b>TX</b>	Zip Code <b>78701</b>	Site Contact <b>Doug Granger</b>		Lab Contact <b>Gail DeRizzo</b>		Analysis (Attach list if more space is needed)																					
Project Name and Location (State) <b>Lockwood URENCO</b>			Carrier/Waybill Number		Analysis (Attach list if more space is needed)			Special Instructions/ Conditions of Receipt																				
Contract/Purchase Order/Quote No. <b>54609-A</b>			Matrix		Containers & Preservatives																							
Sample I.D. No. and Description (Containers for each sample may be combined on one line)			Date	Time	Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Na2S2O3	VOA	SLDA	Asst/PCD	OP Asst	Total Metals	Cyanide	COD	Cl/SO4	IC NO3/NO2	TSS/TDS	SP Cond	Total Coliform	Fecal Coliform
L.E.S. MW-2			3-29-04	1635		X			8	1	1	3	1		2	V	V	V	V	V	V	V	V	V	V	V	V	V
L.E.S. MW-2			3-30-04	1246		X																						
N/A			N/A	N/A																								
Sampled by C. Book / J. Abney			Sample Disposal		Possible Hazard Identification		Turn Around Time Required		QC Requirements (Specify)		1. Received By		Date		Time													
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown			<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input checked="" type="checkbox"/> Archive For <u>3</u> Months		<input checked="" type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/> 7 Days <input type="checkbox"/> 14 Days <input checked="" type="checkbox"/> 21 Days <input type="checkbox"/> Other		(A fee may be assessed if samples are retained longer than 1 month)		1. Received By <i>[Signature]</i>		Date <u>3/31/04</u>		Time <u>0930</u>															
2. Relinquished By			Date		Time		2. Received By		Date		Time		3. Received By		Date		Time											
3. Relinquished By			Date		Time		3. Received By		Date		Time		3. Received By		Date		Time											
Comments																												