Mevatec

Corporation

700_A20

Project ID: 700_A20
Project Manager: Karen Costa

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- Ammonium Perchlorate
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Mevatec 700_A20 Analyte List

Requested Analysis for 700_A20

Dissolved Ions

- Chloride
- Fluoride
- Bromide
- Sulfate
- Nitrate/Nitrite
- Ammonium Perchlorate

Water Quality

- pH
- Specific Conductance
- Residue, Dissolved (TDS)
- Alkalinity
- Total Cyanide

Nutrients

- Amonnia (NH_3+NH_4)
- Total Kjedahl Nitrogen (TKN)
- Total Phosphorous

Total Metals

- Aluminum
- Arsenic
- Barium
- Beryllium
- Boron
- Cadmium
- Calcium
- Chromium
- Chromium $^{6+}$
- Cobalt
- Copper
- Iron
- Lead
- Magnesium
- Manganese
- Mercury
- Molybdenum
- Nickel
- Selenium
- Silicon
- Silver
- Strontium
- Tin
- Vanadium
- Zinc

Dissolved Metals

- Aluminum
- Arsenic
- Barium
- Beryllium
- Boron
- Cadmium
- Calcium
- Chromium
- Cobalt
- Copper
- Iron
- Lead
- Lithium
- Magnesium
- Manganese
- Molybdenum
- Nickel
- Potassium
- Selenium
- Silicon
- Silver
- Sodium
- Strontium
- Tin
- Vanadium
- Zinc

Organics

- Volatiles
- SemiVolatiles
- Explosive Residues
- TOC
- Petroleum Hydrocarbons (GRO & DRO)
- Pesticides
- Herbicides

SAMPLE SUMMARY

CLIENT: Mevatec Corporation
PROJECT ID: 700_A20

TraceAnalysis ID	MEVATEC ID	Sample Date	Matrix	Temperature Upon Receipt
164541	3839-HMW33-0201-QC	2/6/01	WATER	4 °C
164542	3839-HMW33-0201-QC-TB	2/6/01	WATER	4 °C
164543	3839-HMW33-0201	2/6/01	WATER	4 °C
164544	3839-HMW33-0201-TB	2/6/01	WATER	4 °C
164655	3839-HMW35-0201	2/7/01	WATER	4 °C
164656	3839-HMW35-0201-TB	2/7/01	WATER	4 °C
164657	3839-HMW29-0201	2/7/01	WATER	4 °C
164658	3839-HMW29-0201-TB	2/7/01	WATER	4 °C
164753	3839-HMW34-0201	2/8/01	WATER	4 °C
164754	3839-HMW34-0201-TB	2/8/01	WATER	4 °C
164755	3839-HMW32-0201	2/8/01	WATER	4 °C
164756	3839-HMW32-0201-TB	2/8/01	WATER	4 °C

SUBBED ANALYSIS SAMPLE ID INDEX (ATEL)

TraceAnalysis	Ammonium Perchlorate	Herbicides	Metals
164541	021201023	MEL01-01660	MAR01-05473
164543	021201022	MEL01-01659	MAR01-05474
164655	021201025	MEL01-01735	MAR01-05475
164657	021201024	MEL01-01734	MAR01-05476
164753	021601021	MEL01-01782	MAR01-05477
164755	021601020	MEL01-01781	MAR01-05478

* The analyses for Hexavalent Chromium, Dissolved Ions, pH, Specific Conductance, TDS, and Alkalinity were performed in the TraceAnalysis laboratory in El Paso, Texas. The Sample ID Index is the same as that of TraceAnalysis in Lubbock, Texas.

Mercury Results and Quality Control

TRACEANALYSIS, INC.

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155 McCutcheon, Suite H El Paso, Texas 79932 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Karen Costa
Mevatec
P.O. Box 399 Bldg. 126
WSMR, NM 88002

Report Date: March 15, 2001

Order ID Number: A01020724

Project Number: 700 A20
Project Name: HELSTF Landfill (Construction)
Project Location: N/A

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace-Analysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
164541	3839-HMW33-0201-QC	Water	2/6/01	12:15	2/7/01
164543	3839-HMW33-0201	Water	2/6/01	12:15	2/7/01
164655	3839-HMW35-0201	Water	2/7/01	15:00	2/7/01
164657	3839-HMW29-0201	Water	2/7/01	12:15	2/7/01
164753	3839-HMW34-0201	Water	2/8/01	13:30	2/8/01
164755	3839-HMW32-0201	Water	2/8/01	14:20	2/8/01

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 5 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Michael T. Abel
Dr. Blair Leftwich, Director

Analytical Report

Sample: 164541 - 3839-HMW33-0201-QC

Analysis:	Hg, Total	Analytical Method:	S 7470A	QC Batch:	QC08997	Date Analyzed:	2/12/01
Analyst:	SSC	Preparation Method:	N/A	Prep Batch:	PB07751	Date Prepared:	2/12/01

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 164543 - 3839-HMW33-0201

Analysis:	Hg, Total	Analytical Method:	S 7470A	QC Batch:	QC08997	Date Analyzed:	2/12/01
Analyst:	SSC	Preparation Method:	N/A	Prep Batch:	PB07751	Date Prepared:	2/12/01

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 164655 - 3839-HMW35-0201

Analysis:	Hg, Total	Analytical Method:	S 7470A	QC Batch:	QC08997	Date Analyzed:	2/12/01
Analyst:	SSC	Preparation Method:	N/A	Prep Batch:	PB07751	Date Prepared:	2/12/01

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 164657 - 3839-HMW29-0201

Analysis:	Hg, Total	Analytical Method:	S 7470A	QC Batch:	QC08997	Date Analyzed:	2/12/01
Analyst:	SSC	Preparation Method:	N/A	Prep Batch:	PB07751	Date Prepared:	2/12/01

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 164753 - 3839-HMW34-0201

Analysis:	Hg, Total	Analytical Method:	S 7470A	QC Batch:	QC09163	Date Analyzed:	2/20/01
Analyst:	SSC	Preparation Method:	N/A	Prep Batch:	PB07888	Date Prepared:	2/19/01

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 164755 - 3839-HMW32-0201

Analysis:	Hg, Total	Analytical Method:	S 7470A	QC Batch:	QC09163	Date Analyzed:	2/20/01
Analyst:	SSC	Preparation Method:	N/A	Prep Batch:	PB07888	Date Prepared:	2/19/01

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Quality Control Report
Method Blank

Method Blank

QCBatch: QC08997

Param	Flag	Results	Units	Reporting Limit
Total Mercury		<0.0002	mg/L	0.0002

Method Blank

QCBatch: QC09163

Param	Flag	Results	Units	Reporting Limit
Total Mercury		<0.0002	mg/L	0.0002

Quality Control Report
Lab Control Spikes and Duplicate Spikes

LCS

QC Batch: QC08997

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Mercury		0.00114	mg/L	1	0.001	<0.0002	114		80 - 120	20

LCSD

QC Batch: QC08997

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Mercury		0.00107	mg/L	1	0.001	<0.0002	107	6	80 - 120	20

LCS

QC Batch: QC09163

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Mercury		0.00118	mg/L	1	0.001	<0.0002	118		80 - 120	20

LCSD

QC Batch: QC09163

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Mercury		0.00114	mg/L	1	0.001	<0.0002	114	3	80 - 120	20

Quality Control Report
Matrix Spikes and Duplicate Spikes

MS

QC Batch: QC08997

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Mercury		0.00103	mg/L	1	0.001	<0.0002	103		80 - 120	20

MSD

QC Batch: QC08997

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Mercury		0.00102	mg/L	1	0.001	<0.0002	102	1	80 - 120	20

MS

QC Batch: QC09163

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Mercury		0.00114	mg/L	1	0.001	<0.0002	114		80 - 120	20

MSD

QC Batch: QC09163

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Mercury		0.00119	mg/L	1	0.001	<0.0002	119	4	80 - 120	20

Quality Control Report
Continuing Calibration Verification Standards

CCV (1)

QC Batch: QC08997

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.001	0.00094	94	80 - 120	2/12/01

ICV (1) QC Batch: QC08997

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.001	0.00104	104	80 - 120	2/12/01

CCV (1) QC Batch: QC09163

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.001	0.00112	112	80 - 120	2/20/01

ICV (1) QC Batch: QC09163

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.001	0.00099	99	80 - 120	2/20/01

Volatile Organic Samples and Trip Blank Results
Volatile Organic Samples and Trip Blank Quality Control

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
155 McCutcheon, Suite H El Paso, Texas 79932 888•588•3443 915•585•3443 FAX 915•585•4944
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Analytical and Quality Control Report

Karen Costa
Mevatec
P.O. Box 399 Bldg. 126
WSMR, NM 88002

Report Date: March 20, 2001

Order ID Number: A01020724

Project Number: 700 A20
Project Name: HELSTF Landfill (Construction)
Project Location: N/A

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace-Analysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
164541	3839-HMW33-0201-QC	Water	2/6/01	12:15	2/7/01
164542	3839-HMW33-0201-QC-TB	Water	2/6/01	12:15	2/7/01
164543	3839-HMW33-0201	Water	2/6/01	12:15	2/7/01
164544	3839-HMW33-0201-TB	Water	2/6/01	12:15	2/7/01
164655	3839-HMW35-0201	Water	2/7/01	15:00	2/7/01
164656	3839-HMW35-0201-TB	Water	2/7/01	15:00	2/7/01
164657	3839-HMW29-0201	Water	2/7/01	12:15	2/7/01
164658	3839-HMW29-0201-TB	Water	2/7/01	12:15	2/7/01
164753	3839-HMW34-0201	Water	2/8/01	13:30	2/8/01
164754	3839-HMW34-0201-TB	Water	2/8/01	13:30	2/8/01
164755	3839-HMW32-0201	Water	2/8/01	14:20	2/8/01
164756	3839-HMW32-0201-TB	Water	2/8/01	14:20	2/8/01

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Michael T. Abel
Dr. Blair Leftwich, Director

Analytical Report

Sample: 164541 - 3839-HMW33-0201-QC

Analysis:	8260	Analytical Method:	S 8260B	QC Batch:	QC09126	Date Analyzed:	2/13/01
Analyst:	JG	Preparation Method:	E 5030B	Prep Batch:	PB07855	Date Prepared:	2/13/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	µg/L	1	1
Dichlorodifluoromethane		<1.00	µg/L	1	1
Chloromethane (methyl chloride)		<1.00	µg/L	1	1
Vinyl Chloride		<1.00	µg/L	1	1
Bromomethane (methyl bromide)		<1.00	µg/L	1	1
Chloroethane		<1.00	µg/L	1	1
Trichlorofluoromethane		<1.00	µg/L	1	1
Acetone		<10.0	µg/L	1	10
Iodomethane (methyl iodide)		<1.00	µg/L	1	1
Carbon Disulfide		<1.00	µg/L	1	1
Acrylonitrile		<1.00	µg/L	1	1
2-Butanone (MEK)		<5.00	µg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	1	5
2-hexanone		<5.00	µg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	1	10
1,1-Dichloroethene		5.14	µg/L	1	1
Methylene chloride		<5.00	µg/L	1	5
MTBE		<1.00	µg/L	1	1
trans-1,2-Dichloroethene		<1.00	µg/L	1	1
1,1-Dichloroethane		<1.00	µg/L	1	1
cis-1,2-Dichloroethene		<1.00	µg/L	1	1
2,2-Dichloropropane		<1.00	µg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	µg/L	1	1
Chloroform		2.37	µg/L	1	1
1,1,1-Trichloroethane		<1.00	µg/L	1	1
1,1-Dichloropropene		<1.00	µg/L	1	1
Benzene		<1.00	µg/L	1	1
Carbon Tetrachloride		<1.00	µg/L	1	1
1,2-Dichloropropane		<1.00	µg/L	1	1
Trichloroethene (TCE)		6.68	µg/L	1	1
Dibromomethane (methylene bromide)		<1.00	µg/L	1	1
Bromodichloromethane		<1.00	µg/L	1	1
2-Chloroethyl vinyl ether		<5.00	µg/L	1	5
cis-1,3-Dichloropropene		<1.00	µg/L	1	1
trans-1,3-Dichloropropene		<1.00	µg/L	1	1
Toluene		<1.00	µg/L	1	1
1,1,2-Trichloroethane		<1.00	µg/L	1	1
1,3-Dichloropropane		<1.00	µg/L	1	1
Dibromochloromethane		<1.00	µg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1	1
Tetrachloroethene (PCE)		<1.00	µg/L	1	1
Chlorobenzene		<1.00	µg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1	1
Ethylbenzene		<1.00	µg/L	1	1
m,p-Xylene		<1.00	µg/L	1	1
Bromoform		<1.00	µg/L	1	1
Styrene		<1.00	µg/L	1	1
o-Xylene		<1.00	µg/L	1	1

Continued ...

... *Continued* Sample: 164541 Analysis: 8260

Param	Flag	Result	Units	Dilution	RDL
1,1,2,2-Tetrachloroethane		<1.00	µg/L	1	1
2-Chlorotoluene		<1.00	µg/L	1	1
1,2,3-Trichloropropane		<1.00	µg/L	1	1
Isopropylbenzene		<1.00	µg/L	1	1
Bromobenzene		<1.00	µg/L	1	1
n-Propylbenzene		<1.00	µg/L	1	1
1,3,5-Trimethylbenzene		<1.00	µg/L	1	1
tert-Butylbenzene		<1.00	µg/L	1	1
1,2,4-Trimethylbenzene		<1.00	µg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	µg/L	1	1
sec-Butylbenzene		<1.00	µg/L	1	1
1,3-Dichlorobenzene		<1.00	µg/L	1	1
p-Isopropyltoluene		<1.00	µg/L	1	1
4-Chlorotoluene		<1.00	µg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	µg/L	1	1
n-Butylbenzene		<1.00	µg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	µg/L	1	5
1,2,3-Trichlorobenzene		<5.00	µg/L	1	5
1,2,4-Trichlorobenzene		<5.00	µg/L	1	5
Naphthalene		<5.00	µg/L	1	5
Hexachlorobutadiene		<5.00	µg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		53.82	µg/L	1	50	107	85 - 117
Toluene-d8		50.63	µg/L	1	50	101	93 - 109
4-Bromofluorobenzene		46.11	µg/L	1	50	92	76 - 109

Sample: 164542 - 3839-HMW33-0201-QC-TB

Analysis:	8260	Analytical Method:	S 8260B	QC Batch:	QC09126	Date Analyzed:	2/13/01
Analyst:	JG	Preparation Method:	E 5030B	Prep Batch:	PB07855	Date Prepared:	2/13/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	µg/L	1	1
Dichlorodifluoromethane		<1.00	µg/L	1	1
Chloromethane (methyl chloride)		<1.00	µg/L	1	1
Vinyl Chloride		<1.00	µg/L	1	1
Bromomethane (methyl bromide)		<1.00	µg/L	1	1
Chloroethane		<1.00	µg/L	1	1
Trichlorofluoromethane		<1.00	µg/L	1	1
Acetone		<10.0	µg/L	1	10
Iodomethane (methyl iodide)		<1.00	µg/L	1	1
Carbon Disulfide		<1.00	µg/L	1	1
Acrylonitrile		<1.00	µg/L	1	1
2-Butanone (MEK)		<5.00	µg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	1	5
2-hexanone		<5.00	µg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	1	10
1,1-Dichloroethene		<1.00	µg/L	1	1
Methylene chloride		<5.00	µg/L	1	5
MTBE		<1.00	µg/L	1	1

Continued ...

... *Continued* Sample: 164542 Analysis: 8260

Param	Flag	Result	Units	Dilution	RDL
trans-1,2-Dichloroethene		<1.00	µg/L	1	1
1,1-Dichloroethane		<1.00	µg/L	1	1
cis-1,2-Dichloroethene		<1.00	µg/L	1	1
2,2-Dichloropropane		<1.00	µg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	µg/L	1	1
Chloroform		<1.00	µg/L	1	1
1,1,1-Trichloroethane		<1.00	µg/L	1	1
1,1-Dichloropropene		<1.00	µg/L	1	1
Benzene		<1.00	µg/L	1	1
Carbon Tetrachloride		<1.00	µg/L	1	1
1,2-Dichloropropane		<1.00	µg/L	1	1
Trichloroethene (TCE)		<1.00	µg/L	1	1
Dibromomethane (methylene bromide)		<1.00	µg/L	1	1
Bromodichloromethane		<1.00	µg/L	1	1
2-Chloroethyl vinyl ether		<5.00	µg/L	1	5
cis-1,3-Dichloropropene		<1.00	µg/L	1	1
trans-1,3-Dichloropropene		<1.00	µg/L	1	1
Toluene		<1.00	µg/L	1	1
1,1,2-Trichloroethane		<1.00	µg/L	1	1
1,3-Dichloropropane		<1.00	µg/L	1	1
Dibromochloromethane		<1.00	µg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1	1
Tetrachloroethene (PCE)		<1.00	µg/L	1	1
Chlorobenzene		<1.00	µg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1	1
Ethylbenzene		<1.00	µg/L	1	1
m,p-Xylene		<1.00	µg/L	1	1
Bromoform		<1.00	µg/L	1	1
Styrene		<1.00	µg/L	1	1
o-Xylene		<1.00	µg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	µg/L	1	1
2-Chlorotoluene		<1.00	µg/L	1	1
1,2,3-Trichloropropane		<1.00	µg/L	1	1
Isopropylbenzene		<1.00	µg/L	1	1
Bromobenzene		<1.00	µg/L	1	1
n-Propylbenzene		<1.00	µg/L	1	1
1,3,5-Trimethylbenzene		<1.00	µg/L	1	1
tert-Butylbenzene		<1.00	µg/L	1	1
1,2,4-Trimethylbenzene		<1.00	µg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	µg/L	1	1
sec-Butylbenzene		<1.00	µg/L	1	1
1,3-Dichlorobenzene		<1.00	µg/L	1	1
p-Isopropyltoluene		<1.00	µg/L	1	1
4-Chlorotoluene		<1.00	µg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	µg/L	1	1
n-Butylbenzene		<1.00	µg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	µg/L	1	5
1,2,3-Trichlorobenzene		<5.00	µg/L	1	5
1,2,4-Trichlorobenzene		<5.00	µg/L	1	5
Naphthalene		<5.00	µg/L	1	5
Hexachlorobutadiene		<5.00	µg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		53.64	µg/L	1	50	107	85 - 117
Toluene-d8		50.77	µg/L	1	50	101	93 - 109
4-Bromofluorobenzene		47.43	µg/L	1	50	94	76 - 109

Sample: 164543 - 3839-HMW33-0201

Analysis:	8260	Analytical Method:	S 8260B	QC Batch:	QC09126	Date Analyzed:	2/13/01
Analyst:	JG	Preparation Method:	E 5030B	Prep Batch:	PB07855	Date Prepared:	2/13/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	µg/L	1	1
Dichlorodifluoromethane		<1.00	µg/L	1	1
Chloromethane (methyl chloride)		<1.00	µg/L	1	1
Vinyl Chloride		<1.00	µg/L	1	1
Bromomethane (methyl bromide)		<1.00	µg/L	1	1
Chloroethane		<1.00	µg/L	1	1
Trichlorofluoromethane		<1.00	µg/L	1	1
Acetone		<10.0	µg/L	1	10
Iodomethane (methyl iodide)		<1.00	µg/L	1	1
Carbon Disulfide		<1.00	µg/L	1	1
Acrylonitrile		<1.00	µg/L	1	1
2-Butanone (MEK)		<5.00	µg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	1	5
2-hexanone		<5.00	µg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	1	10
1,1-Dichloroethene		5.06	µg/L	1	1
Methylene chloride		<5.00	µg/L	1	5
MTBE		<1.00	µg/L	1	1
trans-1,2-Dichloroethene		<1.00	µg/L	1	1
1,1-Dichloroethane		<1.00	µg/L	1	1
cis-1,2-Dichloroethene		<1.00	µg/L	1	1
2,2-Dichloropropane		<1.00	µg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	µg/L	1	1
Chloroform		2.42	µg/L	1	1
1,1,1-Trichloroethane		<1.00	µg/L	1	1
1,1-Dichloropropene		<1.00	µg/L	1	1
Benzene		<1.00	µg/L	1	1
Carbon Tetrachloride		<1.00	µg/L	1	1
1,2-Dichloropropane		<1.00	µg/L	1	1
Trichloroethene (TCE)		6.76	µg/L	1	1
Dibromomethane (methylene bromide)		<1.00	µg/L	1	1
Bromodichloromethane		<1.00	µg/L	1	1
2-Chloroethyl vinyl ether		<5.00	µg/L	1	5
cis-1,3-Dichloropropene		<1.00	µg/L	1	1
trans-1,3-Dichloropropene		<1.00	µg/L	1	1
Toluene		<1.00	µg/L	1	1
1,1,2-Trichloroethane		<1.00	µg/L	1	1
1,3-Dichloropropane		<1.00	µg/L	1	1
Dibromochloromethane		<1.00	µg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1	1
Tetrachloroethene (PCE)		<1.00	µg/L	1	1
Chlorobenzene		<1.00	µg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1	1
Ethylbenzene		<1.00	µg/L	1	1

Continued ...

... *Continued* Sample: 164543 Analysis: 8260

Param	Flag	Result	Units	Dilution	RDL
m,p-Xylene		<1.00	µg/L	1	1
Bromoform		<1.00	µg/L	1	1
Styrene		<1.00	µg/L	1	1
o-Xylene		<1.00	µg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	µg/L	1	1
2-Chlorotoluene		<1.00	µg/L	1	1
1,2,3-Trichloropropane		<1.00	µg/L	1	1
Isopropylbenzene		<1.00	µg/L	1	1
Bromobenzene		<1.00	µg/L	1	1
n-Propylbenzene		<1.00	µg/L	1	1
1,3,5-Trimethylbenzene		<1.00	µg/L	1	1
tert-Butylbenzene		<1.00	µg/L	1	1
1,2,4-Trimethylbenzene		<1.00	µg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	µg/L	1	1
sec-Butylbenzene		<1.00	µg/L	1	1
1,3-Dichlorobenzene		<1.00	µg/L	1	1
p-Isopropyltoluene		<1.00	µg/L	1	1
4-Chlorotoluene		<1.00	µg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	µg/L	1	1
n-Butylbenzene		<1.00	µg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	µg/L	1	5
1,2,3-Trichlorobenzene		<5.00	µg/L	1	5
1,2,4-Trichlorobenzene		<5.00	µg/L	1	5
Naphthalene		<5.00	µg/L	1	5
Hexachlorobutadiene		<5.00	µg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		55.18	µg/L	1	50	110	85 - 117
Toluene-d8		51.31	µg/L	1	50	102	93 - 109
4-Bromofluorobenzene		46.36	µg/L	1	50	92	76 - 109

Sample: 164544 - 3839-HMW33-0201-TB

Analysis:	8260	Analytical Method:	S 8260B	QC Batch:	QC09126	Date Analyzed:	2/13/01
Analyst:	JG	Preparation Method:	E 5030B	Prep Batch:	PB07855	Date Prepared:	2/13/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	µg/L	1	1
Dichlorodifluoromethane		<1.00	µg/L	1	1
Chloromethane (methyl chloride)		<1.00	µg/L	1	1
Vinyl Chloride		<1.00	µg/L	1	1
Bromomethane (methyl bromide)		<1.00	µg/L	1	1
Chloroethane		<1.00	µg/L	1	1
Trichlorofluoromethane		<1.00	µg/L	1	1
Acetone		<10.0	µg/L	1	10
Iodomethane (methyl iodide)		<1.00	µg/L	1	1
Carbon Disulfide		<1.00	µg/L	1	1
Acrylonitrile		<1.00	µg/L	1	1
2-Butanone (MEK)		<5.00	µg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	1	5
2-hexanone		<5.00	µg/L	1	5

Continued ...

... *Continued* Sample: 164544 Analysis: 8260

Param	Flag	Result	Units	Dilution	RDL
trans 1,4-Dichloro-2-butene		<10.0	µg/L	1	10
1,1-Dichloroethene		<1.00	µg/L	1	1
Methylene chloride		<5.00	µg/L	1	5
MTBE		<1.00	µg/L	1	1
trans-1,2-Dichloroethene		<1.00	µg/L	1	1
1,1-Dichloroethane		<1.00	µg/L	1	1
cis-1,2-Dichloroethene		<1.00	µg/L	1	1
2,2-Dichloropropane		<1.00	µg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	µg/L	1	1
Chloroform		<1.00	µg/L	1	1
1,1,1-Trichloroethane		<1.00	µg/L	1	1
1,1-Dichloropropene		<1.00	µg/L	1	1
Benzene		<1.00	µg/L	1	1
Carbon Tetrachloride		<1.00	µg/L	1	1
1,2-Dichloropropane		<1.00	µg/L	1	1
Trichloroethene (TCE)		<1.00	µg/L	1	1
Dibromomethane (methylene bromide)		<1.00	µg/L	1	1
Bromodichloromethane		<1.00	µg/L	1	1
2-Chloroethyl vinyl ether		<5.00	µg/L	1	5
cis-1,3-Dichloropropene		<1.00	µg/L	1	1
trans-1,3-Dichloropropene		<1.00	µg/L	1	1
Toluene		<1.00	µg/L	1	1
1,1,2-Trichloroethane		<1.00	µg/L	1	1
1,3-Dichloropropane		<1.00	µg/L	1	1
Dibromochloromethane		<1.00	µg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1	1
Tetrachloroethene (PCE)		<1.00	µg/L	1	1
Chlorobenzene		<1.00	µg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1	1
Ethylbenzene		<1.00	µg/L	1	1
m,p-Xylene		<1.00	µg/L	1	1
Bromoform		<1.00	µg/L	1	1
Styrene		<1.00	µg/L	1	1
o-Xylene		<1.00	µg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	µg/L	1	1
2-Chlorotoluene		<1.00	µg/L	1	1
1,2,3-Trichloropropane		<1.00	µg/L	1	1
Isopropylbenzene		<1.00	µg/L	1	1
Bromobenzene		<1.00	µg/L	1	1
n-Propylbenzene		<1.00	µg/L	1	1
1,3,5-Trimethylbenzene		<1.00	µg/L	1	1
tert-Butylbenzene		<1.00	µg/L	1	1
1,2,4-Trimethylbenzene		<1.00	µg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	µg/L	1	1
sec-Butylbenzene		<1.00	µg/L	1	1
1,3-Dichlorobenzene		<1.00	µg/L	1	1
p-Isopropyltoluene		<1.00	µg/L	1	1
4-Chlorotoluene		<1.00	µg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	µg/L	1	1
n-Butylbenzene		<1.00	µg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	µg/L	1	5
1,2,3-Trichlorobenzene		<5.00	µg/L	1	5
1,2,4-Trichlorobenzene		<5.00	µg/L	1	5
Naphthalene		<5.00	µg/L	1	5

Continued ...

... Continued Sample: 164544 Analysis: 8260

Param	Flag	Result	Units	Dilution	RDL
Hexachlorobutadiene		<5.00	µg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		53.89	µg/L	1	50	107	85 - 117
Toluene-d8		51.42	µg/L	1	50	102	93 - 109
4-Bromofluorobenzene		46.29	µg/L	1	50	92	76 - 109

Sample: 164655 - 3839-HMW35-0201

Analysis: 8260 Analytical Method: S 8260B QC Batch: QC09126 Date Analyzed: 2/13/01
Analyst: JG Preparation Method: E 5030B Prep Batch: PB07855 Date Prepared: 2/13/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	µg/L	1	1
Dichlorodifluoromethane		<1.00	µg/L	1	1
Chloromethane (methyl chloride)		<1.00	µg/L	1	1
Vinyl Chloride		<1.00	µg/L	1	1
Bromomethane (methyl bromide)		<1.00	µg/L	1	1
Chloroethane		<1.00	µg/L	1	1
Trichlorofluoromethane		<1.00	µg/L	1	1
Acetone		<10.0	µg/L	1	10
Iodomethane (methyl iodide)		<1.00	µg/L	1	1
Carbon Disulfide		<1.00	µg/L	1	1
Acrylonitrile		<1.00	µg/L	1	1
2-Butanone (MEK)		<5.00	µg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	1	5
2-hexanone		<5.00	µg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	1	10
1,1-Dichloroethene		<1.00	µg/L	1	1
Methylene chloride		<5.00	µg/L	1	5
MTBE		<1.00	µg/L	1	1
trans-1,2-Dichloroethene		<1.00	µg/L	1	1
1,1-Dichloroethane		<1.00	µg/L	1	1
cis-1,2-Dichloroethene		<1.00	µg/L	1	1
2,2-Dichloropropane		<1.00	µg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	µg/L	1	1
Chloroform		<1.00	µg/L	1	1
1,1,1-Trichloroethane		<1.00	µg/L	1	1
1,1-Dichloropropene		<1.00	µg/L	1	1
Benzene		<1.00	µg/L	1	1
Carbon Tetrachloride		<1.00	µg/L	1	1
1,2-Dichloropropane		<1.00	µg/L	1	1
Trichloroethene (TCE)		<1.00	µg/L	1	1
Dibromomethane (methylene bromide)		<1.00	µg/L	1	1
Bromodichloromethane		<1.00	µg/L	1	1
2-Chloroethyl vinyl ether		<5.00	µg/L	1	5
cis-1,3-Dichloropropene		<1.00	µg/L	1	1
trans-1,3-Dichloropropene		<1.00	µg/L	1	1
Toluene		<1.00	µg/L	1	1
1,1,2-Trichloroethane		<1.00	µg/L	1	1
1,3-Dichloropropane		<1.00	µg/L	1	1

Continued ...

... *Continued* Sample: 164655 Analysis: 8260

Param	Flag	Result	Units	Dilution	RDL
Dibromochloromethane		<1.00	µg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1	1
Tetrachloroethene (PCE)		<1.00	µg/L	1	1
Chlorobenzene		<1.00	µg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1	1
Ethylbenzene		<1.00	µg/L	1	1
m,p-Xylene		<1.00	µg/L	1	1
Bromoform		<1.00	µg/L	1	1
Styrene		<1.00	µg/L	1	1
o-Xylene		<1.00	µg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	µg/L	1	1
2-Chlorotoluene		<1.00	µg/L	1	1
1,2,3-Trichloropropane		<1.00	µg/L	1	1
Isopropylbenzene		<1.00	µg/L	1	1
Bromobenzene		<1.00	µg/L	1	1
n-Propylbenzene		<1.00	µg/L	1	1
1,3,5-Trimethylbenzene		<1.00	µg/L	1	1
tert-Butylbenzene		<1.00	µg/L	1	1
1,2,4-Trimethylbenzene		<1.00	µg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	µg/L	1	1
sec-Butylbenzene		<1.00	µg/L	1	1
1,3-Dichlorobenzene		<1.00	µg/L	1	1
p-Isopropyltoluene		<1.00	µg/L	1	1
4-Chlorotoluene		<1.00	µg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	µg/L	1	1
n-Butylbenzene		<1.00	µg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	µg/L	1	5
1,2,3-Trichlorobenzene		<5.00	µg/L	1	5
1,2,4-Trichlorobenzene		<5.00	µg/L	1	5
Naphthalene		<5.00	µg/L	1	5
Hexachlorobutadiene		<5.00	µg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		54.39	µg/L	1	50	108	85 - 117
Toluene-d8		51.20	µg/L	1	50	102	93 - 109
4-Bromofluorobenzene		45.80	µg/L	1	50	91	76 - 109

Sample: 164656 - 3839-HMW35-0201-TB

Analysis:	8260	Analytical Method:	S 8260B	QC Batch:	QC09126	Date Analyzed:	2/13/01
Analyst:	JG	Preparation Method:	E 5030B	Prep Batch:	PB07855	Date Prepared:	2/13/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	µg/L	1	1
Dichlorodifluoromethane		<1.00	µg/L	1	1
Chloromethane (methyl chloride)		<1.00	µg/L	1	1
Vinyl Chloride		<1.00	µg/L	1	1
Bromomethane (methyl bromide)		<1.00	µg/L	1	1
Chloroethane		<1.00	µg/L	1	1
Trichlorofluoromethane		<1.00	µg/L	1	1
Acetone		<10.0	µg/L	1	10

Continued ...

... *Continued* Sample: 164656 Analysis: 8260

Param	Flag	Result	Units	Dilution	RDL
Iodomethane (methyl iodide)		<1.00	µg/L	1	1
Carbon Disulfide		<1.00	µg/L	1	1
Acrylonitrile		<1.00	µg/L	1	1
2-Butanone (MEK)		<5.00	µg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	1	5
2-hexanone		<5.00	µg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	1	10
1,1-Dichloroethene		<1.00	µg/L	1	1
Methylene chloride		<5.00	µg/L	1	5
MTBE		<1.00	µg/L	1	1
trans-1,2-Dichloroethene		<1.00	µg/L	1	1
1,1-Dichloroethane		<1.00	µg/L	1	1
cis-1,2-Dichloroethene		<1.00	µg/L	1	1
2,2-Dichloropropane		<1.00	µg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	µg/L	1	1
Chloroform		<1.00	µg/L	1	1
1,1,1-Trichloroethane		<1.00	µg/L	1	1
1,1-Dichloropropene		<1.00	µg/L	1	1
Benzene		<1.00	µg/L	1	1
Carbon Tetrachloride		<1.00	µg/L	1	1
1,2-Dichloropropane		<1.00	µg/L	1	1
Trichloroethene (TCE)		<1.00	µg/L	1	1
Dibromomethane (methylene bromide)		<1.00	µg/L	1	1
Bromodichloromethane		<1.00	µg/L	1	1
2-Chloroethyl vinyl ether		<5.00	µg/L	1	5
cis-1,3-Dichloropropene		<1.00	µg/L	1	1
trans-1,3-Dichloropropene		<1.00	µg/L	1	1
Toluene		<1.00	µg/L	1	1
1,1,2-Trichloroethane		<1.00	µg/L	1	1
1,3-Dichloropropane		<1.00	µg/L	1	1
Dibromochloromethane		<1.00	µg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1	1
Tetrachloroethene (PCE)		<1.00	µg/L	1	1
Chlorobenzene		<1.00	µg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1	1
Ethylbenzene		<1.00	µg/L	1	1
m,p-Xylene		<1.00	µg/L	1	1
Bromoform		<1.00	µg/L	1	1
Styrene		<1.00	µg/L	1	1
o-Xylene		<1.00	µg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	µg/L	1	1
2-Chlorotoluene		<1.00	µg/L	1	1
1,2,3-Trichloropropane		<1.00	µg/L	1	1
Isopropylbenzene		<1.00	µg/L	1	1
Bromobenzene		<1.00	µg/L	1	1
n-Propylbenzene		<1.00	µg/L	1	1
1,3,5-Trimethylbenzene		<1.00	µg/L	1	1
tert-Butylbenzene		<1.00	µg/L	1	1
1,2,4-Trimethylbenzene		<1.00	µg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	µg/L	1	1
sec-Butylbenzene		<1.00	µg/L	1	1
1,3-Dichlorobenzene		<1.00	µg/L	1	1
p-Isopropyltoluene		<1.00	µg/L	1	1
4-Chlorotoluene		<1.00	µg/L	1	1

Continued ...

... *Continued* Sample: 164656 Analysis: 8260

Param	Flag	Result	Units	Dilution	RDL
1,2-Dichlorobenzene (ortho)		<1.00	µg/L	1	1
n-Butylbenzene		<1.00	µg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	µg/L	1	5
1,2,3-Trichlorobenzene		<5.00	µg/L	1	5
1,2,4-Trichlorobenzene		<5.00	µg/L	1	5
Naphthalene		<5.00	µg/L	1	5
Hexachlorobutadiene		<5.00	µg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		55.33	µg/L	1	50	110	85 - 117
Toluene-d8		51.22	µg/L	1	50	102	93 - 109
4-Bromofluorobenzene		45.07	µg/L	1	50	90	76 - 109

Sample: 164657 - 3839-HMW29-0201

Analysis:	8260	Analytical Method:	S 8260B	QC Batch:	QC09126	Date Analyzed:	2/13/01
Analyst:	JG	Preparation Method:	E 5030B	Prep Batch:	PB07855	Date Prepared:	2/13/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	µg/L	1	1
Dichlorodifluoromethane		<1.00	µg/L	1	1
Chloromethane (methyl chloride)		<1.00	µg/L	1	1
Vinyl Chloride		<1.00	µg/L	1	1
Bromomethane (methyl bromide)		<1.00	µg/L	1	1
Chloroethane		<1.00	µg/L	1	1
Trichlorofluoromethane		<1.00	µg/L	1	1
Acetone		<10.0	µg/L	1	10
Iodomethane (methyl iodide)		<1.00	µg/L	1	1
Carbon Disulfide		<1.00	µg/L	1	1
Acrylonitrile		<1.00	µg/L	1	1
2-Butanone (MEK)		<5.00	µg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	1	5
2-hexanone		<5.00	µg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	1	10
1,1-Dichloroethene		<1.00	µg/L	1	1
Methylene chloride		<5.00	µg/L	1	5
MTBE		<1.00	µg/L	1	1
trans-1,2-Dichloroethene		<1.00	µg/L	1	1
1,1-Dichloroethane		<1.00	µg/L	1	1
cis-1,2-Dichloroethene		<1.00	µg/L	1	1
2,2-Dichloropropane		<1.00	µg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	µg/L	1	1
Chloroform		<1.00	µg/L	1	1
1,1,1-Trichloroethane		<1.00	µg/L	1	1
1,1-Dichloropropene		<1.00	µg/L	1	1
Benzene		<1.00	µg/L	1	1
Carbon Tetrachloride		<1.00	µg/L	1	1
1,2-Dichloropropane		<1.00	µg/L	1	1
Trichloroethene (TCE)		<1.00	µg/L	1	1
Dibromomethane (methylene bromide)		<1.00	µg/L	1	1
Bromodichloromethane		<1.00	µg/L	1	1

Continued ...

... *Continued* Sample: 164657 Analysis: 8260

Param	Flag	Result	Units	Dilution	RDL
2-Chloroethyl vinyl ether		<5.00	µg/L	1	5
cis-1,3-Dichloropropene		<1.00	µg/L	1	1
trans-1,3-Dichloropropene		<1.00	µg/L	1	1
Toluene		<1.00	µg/L	1	1
1,1,2-Trichloroethane		<1.00	µg/L	1	1
1,3-Dichloropropane		<1.00	µg/L	1	1
Dibromochloromethane		<1.00	µg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1	1
Tetrachloroethene (PCE)		<1.00	µg/L	1	1
Chlorobenzene		<1.00	µg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1	1
Ethylbenzene		<1.00	µg/L	1	1
m,p-Xylene		<1.00	µg/L	1	1
Bromoform		<1.00	µg/L	1	1
Styrene		<1.00	µg/L	1	1
o-Xylene		<1.00	µg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	µg/L	1	1
2-Chlorotoluene		<1.00	µg/L	1	1
1,2,3-Trichloropropane		<1.00	µg/L	1	1
Isopropylbenzene		<1.00	µg/L	1	1
Bromobenzene		<1.00	µg/L	1	1
n-Propylbenzene		<1.00	µg/L	1	1
1,3,5-Trimethylbenzene		<1.00	µg/L	1	1
tert-Butylbenzene		<1.00	µg/L	1	1
1,2,4-Trimethylbenzene		<1.00	µg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	µg/L	1	1
sec-Butylbenzene		<1.00	µg/L	1	1
1,3-Dichlorobenzene		<1.00	µg/L	1	1
p-Isopropyltoluene		<1.00	µg/L	1	1
4-Chlorotoluene		<1.00	µg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	µg/L	1	1
n-Butylbenzene		<1.00	µg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	µg/L	1	5
1,2,3-Trichlorobenzene		<5.00	µg/L	1	5
1,2,4-Trichlorobenzene		<5.00	µg/L	1	5
Naphthalene		<5.00	µg/L	1	5
Hexachlorobutadiene		<5.00	µg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		53.87	µg/L	1	50	107	85 - 117
Toluene-d8		50.94	µg/L	1	50	101	93 - 109
4-Bromofluorobenzene		46.21	µg/L	1	50	92	76 - 109

Sample: 164658 - 3839-HMW29-0201-TB

Analysis:	8260	Analytical Method:	S 8260B	QC Batch:	QC09126	Date Analyzed:	2/13/01
Analyst:	JG	Preparation Method:	E 5030B	Prep Batch:	PB07855	Date Prepared:	2/13/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	µg/L	1	1
Dichlorodifluoromethane		<1.00	µg/L	1	1

Continued ...

... *Continued* Sample: 164658 Analysis: 8260

Param	Flag	Result	Units	Dilution	RDL
Chloromethane (methyl chloride)		<1.00	µg/L	1	1
Vinyl Chloride		<1.00	µg/L	1	1
Bromomethane (methyl bromide)		<1.00	µg/L	1	1
Chloroethane		<1.00	µg/L	1	1
Trichlorofluoromethane		<1.00	µg/L	1	1
Acetone		<10.0	µg/L	1	10
Iodomethane (methyl iodide)		<1.00	µg/L	1	1
Carbon Disulfide		<1.00	µg/L	1	1
Acrylonitrile		<1.00	µg/L	1	1
2-Butanone (MEK)		<5.00	µg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	1	5
2-hexanone		<5.00	µg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	1	10
1,1-Dichloroethene		<1.00	µg/L	1	1
Methylene chloride		<5.00	µg/L	1	5
MTBE		<1.00	µg/L	1	1
trans-1,2-Dichloroethene		<1.00	µg/L	1	1
1,1-Dichloroethane		<1.00	µg/L	1	1
cis-1,2-Dichloroethene		<1.00	µg/L	1	1
2,2-Dichloropropane		<1.00	µg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	µg/L	1	1
Chloroform		<1.00	µg/L	1	1
1,1,1-Trichloroethane		<1.00	µg/L	1	1
1,1-Dichloropropene		<1.00	µg/L	1	1
Benzene		<1.00	µg/L	1	1
Carbon Tetrachloride		<1.00	µg/L	1	1
1,2-Dichloropropane		<1.00	µg/L	1	1
Trichloroethene (TCE)		<1.00	µg/L	1	1
Dibromomethane (methylene bromide)		<1.00	µg/L	1	1
Bromodichloromethane		<1.00	µg/L	1	1
2-Chloroethyl vinyl ether		<5.00	µg/L	1	5
cis-1,3-Dichloropropene		<1.00	µg/L	1	1
trans-1,3-Dichloropropene		<1.00	µg/L	1	1
Toluene		<1.00	µg/L	1	1
1,1,2-Trichloroethane		<1.00	µg/L	1	1
1,3-Dichloropropane		<1.00	µg/L	1	1
Dibromochloromethane		<1.00	µg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1	1
Tetrachloroethene (PCE)		<1.00	µg/L	1	1
Chlorobenzene		<1.00	µg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1	1
Ethylbenzene		<1.00	µg/L	1	1
m,p-Xylene		<1.00	µg/L	1	1
Bromoform		<1.00	µg/L	1	1
Styrene		<1.00	µg/L	1	1
o-Xylene		<1.00	µg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	µg/L	1	1
2-Chlorotoluene		<1.00	µg/L	1	1
1,2,3-Trichloropropane		<1.00	µg/L	1	1
Isopropylbenzene		<1.00	µg/L	1	1
Bromobenzene		<1.00	µg/L	1	1
n-Propylbenzene		<1.00	µg/L	1	1
1,3,5-Trimethylbenzene		<1.00	µg/L	1	1
tert-Butylbenzene		<1.00	µg/L	1	1

Continued ...

... *Continued* Sample: 164658 Analysis: 8260

Param	Flag	Result	Units	Dilution	RDL
1,2,4-Trimethylbenzene		<1.00	µg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	µg/L	1	1
sec-Butylbenzene		<1.00	µg/L	1	1
1,3-Dichlorobenzene		<1.00	µg/L	1	1
p-Isopropyltoluene		<1.00	µg/L	1	1
4-Chlorotoluene		<1.00	µg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	µg/L	1	1
n-Butylbenzene		<1.00	µg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	µg/L	1	5
1,2,3-Trichlorobenzene		<5.00	µg/L	1	5
1,2,4-Trichlorobenzene		<5.00	µg/L	1	5
Naphthalene		<5.00	µg/L	1	5
Hexachlorobutadiene		<5.00	µg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		54.70	µg/L	1	50	109	85 - 117
Toluene-d8		50.57	µg/L	1	50	101	93 - 109
4-Bromofluorobenzene		47.35	µg/L	1	50	94	76 - 109

Sample: 164753 - 3839-HMW34-0201

Analysis:	8260	Analytical Method:	S 8260B	QC Batch:	QC09147	Date Analyzed:	2/15/01
Analyst:	JG	Preparation Method:	E 5030B	Prep Batch:	PB07876	Date Prepared:	2/15/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	µg/L	1	1
Dichlorodifluoromethane		<1.00	µg/L	1	1
Chloromethane (methyl chloride)		<1.00	µg/L	1	1
Vinyl Chloride		<1.00	µg/L	1	1
Bromomethane (methyl bromide)		<1.00	µg/L	1	1
Chloroethane		<1.00	µg/L	1	1
Trichlorofluoromethane		<1.00	µg/L	1	1
Acetone		<10.0	µg/L	1	10
Iodomethane (methyl iodide)		<1.00	µg/L	1	1
Carbon Disulfide		<1.00	µg/L	1	1
Acrylonitrile		<1.00	µg/L	1	1
2-Butanone (MEK)		<5.00	µg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	1	5
2-hexanone		<5.00	µg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	1	10
1,1-Dichloroethene		<1.00	µg/L	1	1
Methylene chloride		<5.00	µg/L	1	5
MTBE		<1.00	µg/L	1	1
trans-1,2-Dichloroethene		<1.00	µg/L	1	1
1,1-Dichloroethane		<1.00	µg/L	1	1
cis-1,2-Dichloroethene		<1.00	µg/L	1	1
2,2-Dichloropropane		<1.00	µg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	µg/L	1	1
Chloroform		<1.00	µg/L	1	1
1,1,1-Trichloroethane		<1.00	µg/L	1	1
1,1-Dichloropropene		<1.00	µg/L	1	1

Continued ...

... *Continued* Sample: 164753 Analysis: 8260

Param	Flag	Result	Units	Dilution	RDL
Benzene		<1.00	µg/L	1	1
Carbon Tetrachloride		<1.00	µg/L	1	1
1,2-Dichloropropane		<1.00	µg/L	1	1
Trichloroethene (TCE)		<1.00	µg/L	1	1
Dibromomethane (methylene bromide)		<1.00	µg/L	1	1
Bromodichloromethane		<1.00	µg/L	1	1
2-Chloroethyl vinyl ether		<5.00	µg/L	1	5
cis-1,3-Dichloropropene		<1.00	µg/L	1	1
trans-1,3-Dichloropropene		<1.00	µg/L	1	1
Toluene		<1.00	µg/L	1	1
1,1,2-Trichloroethane		<1.00	µg/L	1	1
1,3-Dichloropropane		<1.00	µg/L	1	1
Dibromochloromethane		<1.00	µg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1	1
Tetrachloroethene (PCE)		<1.00	µg/L	1	1
Chlorobenzene		<1.00	µg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1	1
Ethylbenzene		<1.00	µg/L	1	1
m,p-Xylene		<1.00	µg/L	1	1
Bromoform		<1.00	µg/L	1	1
Styrene		<1.00	µg/L	1	1
o-Xylene		<1.00	µg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	µg/L	1	1
2-Chlorotoluene		<1.00	µg/L	1	1
1,2,3-Trichloropropane		<1.00	µg/L	1	1
Isopropylbenzene		<1.00	µg/L	1	1
Bromobenzene		<1.00	µg/L	1	1
n-Propylbenzene		<1.00	µg/L	1	1
1,3,5-Trimethylbenzene		<1.00	µg/L	1	1
tert-Butylbenzene		<1.00	µg/L	1	1
1,2,4-Trimethylbenzene		<1.00	µg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	µg/L	1	1
sec-Butylbenzene		<1.00	µg/L	1	1
1,3-Dichlorobenzene		<1.00	µg/L	1	1
p-Isopropyltoluene		<1.00	µg/L	1	1
4-Chlorotoluene		<1.00	µg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	µg/L	1	1
n-Butylbenzene		<1.00	µg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	µg/L	1	5
1,2,3-Trichlorobenzene		<5.00	µg/L	1	5
1,2,4-Trichlorobenzene		<5.00	µg/L	1	5
Naphthalene		<5.00	µg/L	1	5
Hexachlorobutadiene		<5.00	µg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		56.12	µg/L	1	50	112	85 - 117
Toluene-d8		50.04	µg/L	1	50	100	93 - 109
4-Bromofluorobenzene		44.36	µg/L	1	50	88	76 - 109

Sample: 164754 - 3839-HMW34-0201-TB

Analysis:	8260	Analytical Method:	S 8260B	QC Batch:	QC09148	Date Analyzed:	2/16/01
Analyst:	JG	Preparation Method:	E 5030B	Prep Batch:	PB07877	Date Prepared:	2/16/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	µg/L	1	1
Dichlorodifluoromethane		<1.00	µg/L	1	1
Chloromethane (methyl chloride)		<1.00	µg/L	1	1
Vinyl Chloride		<1.00	µg/L	1	1
Bromomethane (methyl bromide)		<1.00	µg/L	1	1
Chloroethane		<1.00	µg/L	1	1
Trichlorofluoromethane		<1.00	µg/L	1	1
Acetone		<10.0	µg/L	1	10
Iodomethane (methyl iodide)		<1.00	µg/L	1	1
Carbon Disulfide		<1.00	µg/L	1	1
Acrylonitrile		<1.00	µg/L	1	1
2-Butanone (MEK)		<5.00	µg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	1	5
2-hexanone		<5.00	µg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	1	10
1,1-Dichloroethene		<1.00	µg/L	1	1
Methylene chloride		<5.00	µg/L	1	5
MTBE		<1.00	µg/L	1	1
trans-1,2-Dichloroethene		<1.00	µg/L	1	1
1,1-Dichloroethane		<1.00	µg/L	1	1
cis-1,2-Dichloroethene		<1.00	µg/L	1	1
2,2-Dichloropropane		<1.00	µg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	µg/L	1	1
Chloroform		<1.00	µg/L	1	1
1,1,1-Trichloroethane		<1.00	µg/L	1	1
1,1-Dichloropropene		<1.00	µg/L	1	1
Benzene		<1.00	µg/L	1	1
Carbon Tetrachloride		<1.00	µg/L	1	1
1,2-Dichloropropane		<1.00	µg/L	1	1
Trichloroethene (TCE)		<1.00	µg/L	1	1
Dibromomethane (methylene bromide)		<1.00	µg/L	1	1
Bromodichloromethane		<1.00	µg/L	1	1
2-Chloroethyl vinyl ether		<5.00	µg/L	1	5
cis-1,3-Dichloropropene		<1.00	µg/L	1	1
trans-1,3-Dichloropropene		<1.00	µg/L	1	1
Toluene		<1.00	µg/L	1	1
1,1,2-Trichloroethane		<1.00	µg/L	1	1
1,3-Dichloropropane		<1.00	µg/L	1	1
Dibromochloromethane		<1.00	µg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1	1
Tetrachloroethene (PCE)		<1.00	µg/L	1	1
Chlorobenzene		<1.00	µg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1	1
Ethylbenzene		<1.00	µg/L	1	1
m,p-Xylene		<1.00	µg/L	1	1
Bromoform		<1.00	µg/L	1	1
Styrene		<1.00	µg/L	1	1
o-Xylene		<1.00	µg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	µg/L	1	1
2-Chlorotoluene		<1.00	µg/L	1	1
1,2,3-Trichloropropane		<1.00	µg/L	1	1

Continued ...

... *Continued* Sample: 164754 Analysis: 8260

Param	Flag	Result	Units	Dilution	RDL
Isopropylbenzene		<1.00	µg/L	1	1
Bromobenzene		<1.00	µg/L	1	1
n-Propylbenzene		<1.00	µg/L	1	1
1,3,5-Trimethylbenzene		<1.00	µg/L	1	1
tert-Butylbenzene		<1.00	µg/L	1	1
1,2,4-Trimethylbenzene		<1.00	µg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	µg/L	1	1
sec-Butylbenzene		<1.00	µg/L	1	1
1,3-Dichlorobenzene		<1.00	µg/L	1	1
p-Isopropyltoluene		<1.00	µg/L	1	1
4-Chlorotoluene		<1.00	µg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	µg/L	1	1
n-Butylbenzene		<1.00	µg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	µg/L	1	5
1,2,3-Trichlorobenzene		<5.00	µg/L	1	5
1,2,4-Trichlorobenzene		<5.00	µg/L	1	5
Naphthalene		<5.00	µg/L	1	5
Hexachlorobutadiene		<5.00	µg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		43.78	µg/L	1	50	87	85 - 117
Toluene-d8		51.06	µg/L	1	50	102	93 - 109
4-Bromofluorobenzene		47.14	µg/L	1	50	94	76 - 109

Sample: 164755 - 3839-HMW32-0201

Analysis:	8260	Analytical Method:	S 8260B	QC Batch:	QC09155	Date Analyzed:	2/16/01
Analyst:	JG	Preparation Method:	E 5030B	Prep Batch:	PB07881	Date Prepared:	2/16/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	µg/L	1	1
Dichlorodifluoromethane		<1.00	µg/L	1	1
Chloromethane (methyl chloride)		<1.00	µg/L	1	1
Vinyl Chloride		<1.00	µg/L	1	1
Bromomethane (methyl bromide)		<1.00	µg/L	1	1
Chloroethane		<1.00	µg/L	1	1
Trichlorofluoromethane		<1.00	µg/L	1	1
Acetone		<10.0	µg/L	1	10
Iodomethane (methyl iodide)		<1.00	µg/L	1	1
Carbon Disulfide		<1.00	µg/L	1	1
Acrylonitrile		<1.00	µg/L	1	1
2-Butanone (MEK)		<5.00	µg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	1	5
2-hexanone		<5.00	µg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	1	10
1,1-Dichloroethene		<1.00	µg/L	1	1
Methylene chloride		<5.00	µg/L	1	5
MTBE		<1.00	µg/L	1	1
trans-1,2-Dichloroethene		<1.00	µg/L	1	1
1,1-Dichloroethane		<1.00	µg/L	1	1
cis-1,2-Dichloroethene		<1.00	µg/L	1	1

Continued ...

... *Continued* Sample: 164755 Analysis: 8260

Param	Flag	Result	Units	Dilution	RDL
2,2-Dichloropropane		<1.00	µg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	µg/L	1	1
Chloroform		<1.00	µg/L	1	1
1,1,1-Trichloroethane		<1.00	µg/L	1	1
1,1-Dichloropropene		<1.00	µg/L	1	1
Benzene		<1.00	µg/L	1	1
Carbon Tetrachloride		<1.00	µg/L	1	1
1,2-Dichloropropane		<1.00	µg/L	1	1
Trichloroethene (TCE)		<1.00	µg/L	1	1
Dibromomethane (methylene bromide)		<1.00	µg/L	1	1
Bromodichloromethane		<1.00	µg/L	1	1
2-Chloroethyl vinyl ether		<5.00	µg/L	1	5
cis-1,3-Dichloropropene		<1.00	µg/L	1	1
trans-1,3-Dichloropropene		<1.00	µg/L	1	1
Toluene		<1.00	µg/L	1	1
1,1,2-Trichloroethane		<1.00	µg/L	1	1
1,3-Dichloropropane		<1.00	µg/L	1	1
Dibromochloromethane		<1.00	µg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1	1
Tetrachloroethene (PCE)		<1.00	µg/L	1	1
Chlorobenzene		<1.00	µg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1	1
Ethylbenzene		<1.00	µg/L	1	1
m,p-Xylene		<1.00	µg/L	1	1
Bromoform		<1.00	µg/L	1	1
Styrene		<1.00	µg/L	1	1
o-Xylene		<1.00	µg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	µg/L	1	1
2-Chlorotoluene		<1.00	µg/L	1	1
1,2,3-Trichloropropane		<1.00	µg/L	1	1
Isopropylbenzene		<1.00	µg/L	1	1
Bromobenzene		<1.00	µg/L	1	1
n-Propylbenzene		<1.00	µg/L	1	1
1,3,5-Trimethylbenzene		<1.00	µg/L	1	1
tert-Butylbenzene		<1.00	µg/L	1	1
1,2,4-Trimethylbenzene		<1.00	µg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	µg/L	1	1
sec-Butylbenzene		<1.00	µg/L	1	1
1,3-Dichlorobenzene		<1.00	µg/L	1	1
p-Isopropyltoluene		<1.00	µg/L	1	1
4-Chlorotoluene		<1.00	µg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	µg/L	1	1
n-Butylbenzene		<1.00	µg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	µg/L	1	5
1,2,3-Trichlorobenzene		<5.00	µg/L	1	5
1,2,4-Trichlorobenzene		<5.00	µg/L	1	5
Naphthalene		<5.00	µg/L	1	5
Hexachlorobutadiene		<5.00	µg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		50.98	µg/L	1	50	101	85 - 117
Toluene-d8		50.39	µg/L	1	50	100	93 - 109
4-Bromofluorobenzene		46.09	µg/L	1	50	92	76 - 109

Sample: 164756 - 3839-HMW32-0201-TB

Analysis:	8260	Analytical Method:	S 8260B	QC Batch:	QC09147	Date Analyzed:	2/15/01
Analyst:	JG	Preparation Method:	E 5030B	Prep Batch:	PB07876	Date Prepared:	2/15/01

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1.00	µg/L	1	1
Dichlorodifluoromethane		<1.00	µg/L	1	1
Chloromethane (methyl chloride)		<1.00	µg/L	1	1
Vinyl Chloride		<1.00	µg/L	1	1
Bromomethane (methyl bromide)		<1.00	µg/L	1	1
Chloroethane		<1.00	µg/L	1	1
Trichlorofluoromethane		<1.00	µg/L	1	1
Acetone		<10.0	µg/L	1	10
Iodomethane (methyl iodide)		<1.00	µg/L	1	1
Carbon Disulfide		<1.00	µg/L	1	1
Acrylonitrile		<1.00	µg/L	1	1
2-Butanone (MEK)		<5.00	µg/L	1	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	1	5
2-hexanone		<5.00	µg/L	1	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	1	10
1,1-Dichloroethene		<1.00	µg/L	1	1
Methylene chloride		<5.00	µg/L	1	5
MTBE		<1.00	µg/L	1	1
trans-1,2-Dichloroethene		<1.00	µg/L	1	1
1,1-Dichloroethane		<1.00	µg/L	1	1
cis-1,2-Dichloroethene		<1.00	µg/L	1	1
2,2-Dichloropropane		<1.00	µg/L	1	1
1,2-Dichloroethane (EDC)		<1.00	µg/L	1	1
Chloroform		<1.00	µg/L	1	1
1,1,1-Trichloroethane		<1.00	µg/L	1	1
1,1-Dichloropropene		<1.00	µg/L	1	1
Benzene		<1.00	µg/L	1	1
Carbon Tetrachloride		<1.00	µg/L	1	1
1,2-Dichloropropane		<1.00	µg/L	1	1
Trichloroethene (TCE)		<1.00	µg/L	1	1
Dibromomethane (methylene bromide)		<1.00	µg/L	1	1
Bromodichloromethane		<1.00	µg/L	1	1
2-Chloroethyl vinyl ether		<5.00	µg/L	1	5
cis-1,3-Dichloropropene		<1.00	µg/L	1	1
trans-1,3-Dichloropropene		<1.00	µg/L	1	1
Toluene		<1.00	µg/L	1	1
1,1,2-Trichloroethane		<1.00	µg/L	1	1
1,3-Dichloropropane		<1.00	µg/L	1	1
Dibromochloromethane		<1.00	µg/L	1	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1	1
Tetrachloroethene (PCE)		<1.00	µg/L	1	1
Chlorobenzene		<1.00	µg/L	1	1
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1	1
Ethylbenzene		<1.00	µg/L	1	1
m,p-Xylene		<1.00	µg/L	1	1
Bromoform		<1.00	µg/L	1	1
Styrene		<1.00	µg/L	1	1
o-Xylene		<1.00	µg/L	1	1
1,1,2,2-Tetrachloroethane		<1.00	µg/L	1	1
2-Chlorotoluene		<1.00	µg/L	1	1
1,2,3-Trichloropropane		<1.00	µg/L	1	1

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... *Continued* Sample: 164756 Analysis: 8260

Param	Flag	Result	Units	Dilution	RDL
Isopropylbenzene		<1.00	µg/L	1	1
Bromobenzene		<1.00	µg/L	1	1
n-Propylbenzene		<1.00	µg/L	1	1
1,3,5-Trimethylbenzene		<1.00	µg/L	1	1
tert-Butylbenzene		<1.00	µg/L	1	1
1,2,4-Trimethylbenzene		<1.00	µg/L	1	1
1,4-Dichlorobenzene (para)		<1.00	µg/L	1	1
sec-Butylbenzene		<1.00	µg/L	1	1
1,3-Dichlorobenzene		<1.00	µg/L	1	1
p-Isopropyltoluene		<1.00	µg/L	1	1
4-Chlorotoluene		<1.00	µg/L	1	1
1,2-Dichlorobenzene (ortho)		<1.00	µg/L	1	1
n-Butylbenzene		<1.00	µg/L	1	1
1,2-Dibromo-3-chloropropane		<5.00	µg/L	1	5
1,2,3-Trichlorobenzene		<5.00	µg/L	1	5
1,2,4-Trichlorobenzene		<5.00	µg/L	1	5
Naphthalene		<5.00	µg/L	1	5
Hexachlorobutadiene		<5.00	µg/L	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		55.21	µg/L	1	50	110	85 - 117
Toluene-d8		51.62	µg/L	1	50	103	93 - 109
4-Bromofluorobenzene		47.41	µg/L	1	50	94	76 - 109

Quality Control Report
Method Blank

Method Blank

QCBatch: QC09126

Param	Flag	Results	Units	Reporting Limit
Bromochloromethane		<1.00	µg/L	1
Dichlorodifluoromethane		<1.00	µg/L	1
Chloromethane (methyl chloride)		<1.00	µg/L	1
Vinyl Chloride		<1.00	µg/L	1
Bromomethane (methyl bromide)		<1.00	µg/L	1
Chloroethane		<1.00	µg/L	1
Trichlorofluoromethane		<1.00	µg/L	1
Acetone		<10.0	µg/L	10
Iodomethane (methyl iodide)		<1.00	µg/L	1
Carbon Disulfide		<1.00	µg/L	1
Acrylonitrile		<1.00	µg/L	1
2-Butanone (MEK)		<5.00	µg/L	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	5
2-hexanone		<5.00	µg/L	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	10
1,1-Dichloroethene		<1.00	µg/L	1
Methylene chloride		<5.00	µg/L	5
MTBE		<1.00	µg/L	1
trans-1,2-Dichloroethene		<1.00	µg/L	1
1,1-Dichloroethane		<1.00	µg/L	1
cis-1,2-Dichloroethene		<1.00	µg/L	1
2,2-Dichloropropane		<1.00	µg/L	1
1,2-Dichloroethane (EDC)		<1.00	µg/L	1
Chloroform		<1.00	µg/L	1
1,1,1-Trichloroethane		<1.00	µg/L	1
1,1-Dichloropropene		<1.00	µg/L	1
Benzene		<1.00	µg/L	1
Carbon Tetrachloride		<1.00	µg/L	1
1,2-Dichloropropane		<1.00	µg/L	1
Trichloroethene (TCE)		<1.00	µg/L	1
Dibromomethane (methylene bromide)		<1.00	µg/L	1
Bromodichloromethane		<1.00	µg/L	1
2-Chloroethyl vinyl ether		<5.00	µg/L	5
cis-1,3-Dichloropropene		<1.00	µg/L	1
trans-1,3-Dichloropropene		<1.00	µg/L	1
Toluene		<1.00	µg/L	1
1,1,2-Trichloroethane		<1.00	µg/L	1
1,3-Dichloropropane		<1.00	µg/L	1
Dibromochloromethane		<1.00	µg/L	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1
Tetrachloroethene (PCE)		<1.00	µg/L	1
Chlorobenzene		<1.00	µg/L	1
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1
Ethylbenzene		<1.00	µg/L	1
m,p-Xylene		<1.00	µg/L	1
Bromoform		<1.00	µg/L	1
Styrene		<1.00	µg/L	1
o-Xylene		<1.00	µg/L	1

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Param	Flag	Results	Units	Reporting Limit
1,1,2,2-Tetrachloroethane		<1.00	µg/L	1
2-Chlorotoluene		<1.00	µg/L	1
1,2,3-Trichloropropane		<1.00	µg/L	1
Isopropylbenzene		<1.00	µg/L	1
Bromobenzene		<1.00	µg/L	1
n-Propylbenzene		<1.00	µg/L	1
1,3,5-Trimethylbenzene		<1.00	µg/L	1
tert-Butylbenzene		<1.00	µg/L	1
1,2,4-Trimethylbenzene		<1.00	µg/L	1
1,4-Dichlorobenzene (para)		<1.00	µg/L	1
sec-Butylbenzene		<1.00	µg/L	1
1,3-Dichlorobenzene		<1.00	µg/L	1
p-Isopropyltoluene		<1.00	µg/L	1
4-Chlorotoluene		<1.00	µg/L	1
1,2-Dichlorobenzene (ortho)		<1.00	µg/L	1
n-Butylbenzene		<1.00	µg/L	1
1,2-Dibromo-3-chloropropane		<5.00	µg/L	5
1,2,3-Trichlorobenzene		<5.00	µg/L	5
1,2,4-Trichlorobenzene		<5.00	µg/L	5
Naphthalene		<5.00	µg/L	5
Hexachlorobutadiene		<5.00	µg/L	5

Surrogate	Flag	Result	Units	Spike Amount	Percent Recovery	Recovery Limit
Dibromofluoromethane		53.27	µg/L	50	106	85 - 117
Toluene-d8		50.70	µg/L	50	101	93 - 109
4-Bromofluorobenzene		46.91	µg/L	50	93	76 - 109

Method Blank

QCBatch: QC09147

Param	Flag	Results	Units	Reporting Limit
Bromochloromethane		<1.00	µg/L	1
Dichlorodifluoromethane		<1.00	µg/L	1
Chloromethane (methyl chloride)		<1.00	µg/L	1
Vinyl Chloride		<1.00	µg/L	1
Bromomethane (methyl bromide)		<1.00	µg/L	1
Chloroethane		<1.00	µg/L	1
Trichlorofluoromethane		<1.00	µg/L	1
Acetone		<10.0	µg/L	10
Iodomethane (methyl iodide)		<1.00	µg/L	1
Carbon Disulfide		<1.00	µg/L	1
Acrylonitrile		<1.00	µg/L	1
2-Butanone (MEK)		<5.00	µg/L	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	5
2-hexanone		<5.00	µg/L	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	10
1,1-Dichloroethene		<1.00	µg/L	1
Methylene chloride		<5.00	µg/L	5
MTBE		<1.00	µg/L	1

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Param	Flag	Results	Units	Reporting Limit
trans-1,2-Dichloroethene		<1.00	µg/L	1
1,1-Dichloroethane		<1.00	µg/L	1
cis-1,2-Dichloroethene		<1.00	µg/L	1
2,2-Dichloropropane		<1.00	µg/L	1
1,2-Dichloroethane (EDC)		<1.00	µg/L	1
Chloroform		<1.00	µg/L	1
1,1,1-Trichloroethane		<1.00	µg/L	1
1,1-Dichloropropene		<1.00	µg/L	1
Benzene		<1.00	µg/L	1
Carbon Tetrachloride		<1.00	µg/L	1
1,2-Dichloropropane		<1.00	µg/L	1
Trichloroethene (TCE)		<1.00	µg/L	1
Dibromomethane (methylene bromide)		<1.00	µg/L	1
Bromodichloromethane		<1.00	µg/L	1
2-Chloroethyl vinyl ether		<5.00	µg/L	5
cis-1,3-Dichloropropene		<1.00	µg/L	1
trans-1,3-Dichloropropene		<1.00	µg/L	1
Toluene		<1.00	µg/L	1
1,1,2-Trichloroethane		<1.00	µg/L	1
1,3-Dichloropropane		<1.00	µg/L	1
Dibromochloromethane		<1.00	µg/L	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1
Tetrachloroethene (PCE)		<1.00	µg/L	1
Chlorobenzene		<1.00	µg/L	1
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1
Ethylbenzene		<1.00	µg/L	1
m,p-Xylene		<1.00	µg/L	1
Bromoform		<1.00	µg/L	1
Styrene		<1.00	µg/L	1
o-Xylene		<1.00	µg/L	1
1,1,2,2-Tetrachloroethane		<1.00	µg/L	1
2-Chlorotoluene		<1.00	µg/L	1
1,2,3-Trichloropropane		<1.00	µg/L	1
Isopropylbenzene		<1.00	µg/L	1
Bromobenzene		<1.00	µg/L	1
n-Propylbenzene		<1.00	µg/L	1
1,3,5-Trimethylbenzene		<1.00	µg/L	1
tert-Butylbenzene		<1.00	µg/L	1
1,2,4-Trimethylbenzene		<1.00	µg/L	1
1,4-Dichlorobenzene (para)		<1.00	µg/L	1
sec-Butylbenzene		<1.00	µg/L	1
1,3-Dichlorobenzene		<1.00	µg/L	1
p-Isopropyltoluene		<1.00	µg/L	1
4-Chlorotoluene		<1.00	µg/L	1
1,2-Dichlorobenzene (ortho)		<1.00	µg/L	1
n-Butylbenzene		<1.00	µg/L	1
1,2-Dibromo-3-chloropropane		<5.00	µg/L	5
1,2,3-Trichlorobenzene		<5.00	µg/L	5
1,2,4-Trichlorobenzene		<5.00	µg/L	5
Naphthalene		<5.00	µg/L	5
Hexachlorobutadiene		<5.00	µg/L	5

Surrogate	Flag	Result	Units	Spike Amount	Percent Recovery	Recovery Limit
Dibromofluoromethane		55.65	µg/L	50	111	85 - 117
Toluene-d8		51.18	µg/L	50	102	93 - 109
4-Bromofluorobenzene		43.29	µg/L	50	86	76 - 109

Method Blank

QCBatch: QC09148

Param	Flag	Results	Units	Reporting Limit
Bromochloromethane		<1.00	µg/L	1
Dichlorodifluoromethane		<1.00	µg/L	1
Chloromethane (methyl chloride)		<1.00	µg/L	1
Vinyl Chloride		<1.00	µg/L	1
Bromomethane (methyl bromide)		<1.00	µg/L	1
Chloroethane		<1.00	µg/L	1
Trichlorofluoromethane		<1.00	µg/L	1
Acetone		<10.0	µg/L	10
Iodomethane (methyl iodide)		<1.00	µg/L	1
Carbon Disulfide		<1.00	µg/L	1
Acrylonitrile		<1.00	µg/L	1
2-Butanone (MEK)		<5.00	µg/L	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	5
2-hexanone		<5.00	µg/L	5
trans 1,4-Dichloro-2-butene		<10.0	µg/L	10
1,1-Dichloroethene		<1.00	µg/L	1
Methylene chloride		<5.00	µg/L	5
MTBE		<1.00	µg/L	1
trans-1,2-Dichloroethene		<1.00	µg/L	1
1,1-Dichloroethane		<1.00	µg/L	1
cis-1,2-Dichloroethene		<1.00	µg/L	1
2,2-Dichloropropane		<1.00	µg/L	1
1,2-Dichloroethane (EDC)		<1.00	µg/L	1
Chloroform		<1.00	µg/L	1
1,1,1-Trichloroethane		<1.00	µg/L	1
1,1-Dichloropropene		<1.00	µg/L	1
Benzene		<1.00	µg/L	1
Carbon Tetrachloride		<1.00	µg/L	1
1,2-Dichloropropane		<1.00	µg/L	1
Trichloroethene (TCE)		<1.00	µg/L	1
Dibromomethane (methylene bromide)		<1.00	µg/L	1
Bromodichloromethane		<1.00	µg/L	1
2-Chloroethyl vinyl ether		<5.00	µg/L	5
cis-1,3-Dichloropropene		<1.00	µg/L	1
trans-1,3-Dichloropropene		<1.00	µg/L	1
Toluene		<1.00	µg/L	1
1,1,2-Trichloroethane		<1.00	µg/L	1
1,3-Dichloropropane		<1.00	µg/L	1
Dibromochloromethane		<1.00	µg/L	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1
Tetrachloroethene (PCE)		<1.00	µg/L	1
Chlorobenzene		<1.00	µg/L	1
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1
Ethylbenzene		<1.00	µg/L	1

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Param	Flag	Results	Units	Reporting Limit
m,p-Xylene		<1.00	µg/L	1
Bromoform		<1.00	µg/L	1
Styrene		<1.00	µg/L	1
o-Xylene		<1.00	µg/L	1
1,1,2,2-Tetrachloroethane		<1.00	µg/L	1
2-Chlorotoluene		<1.00	µg/L	1
1,2,3-Trichloropropane		<1.00	µg/L	1
Isopropylbenzene		<1.00	µg/L	1
Bromobenzene		<1.00	µg/L	1
n-Propylbenzene		<1.00	µg/L	1
1,3,5-Trimethylbenzene		<1.00	µg/L	1
tert-Butylbenzene		<1.00	µg/L	1
1,2,4-Trimethylbenzene		<1.00	µg/L	1
1,4-Dichlorobenzene (para)		<1.00	µg/L	1
sec-Butylbenzene		<1.00	µg/L	1
1,3-Dichlorobenzene		<1.00	µg/L	1
p-Isopropyltoluene		<1.00	µg/L	1
4-Chlorotoluene		<1.00	µg/L	1
1,2-Dichlorobenzene (ortho)		<1.00	µg/L	1
n-Butylbenzene		<1.00	µg/L	1
1,2-Dibromo-3-chloropropane		<5.00	µg/L	5
1,2,3-Trichlorobenzene		<5.00	µg/L	5
1,2,4-Trichlorobenzene		<5.00	µg/L	5
Naphthalene		<5.00	µg/L	5
Hexachlorobutadiene		<5.00	µg/L	5

Surrogate	Flag	Result	Units	Spike Amount	Percent Recovery	Recovery Limit
Dibromofluoromethane		45.48	µg/L	50	90	85 - 117
Toluene-d8		51.32	µg/L	50	102	93 - 109
4-Bromofluorobenzene		47.20	µg/L	50	94	76 - 109

Method Blank

QCBatch: QC09155

Param	Flag	Results	Units	Reporting Limit
Bromochloromethane		<1.00	µg/L	1
Dichlorodifluoromethane		<1.00	µg/L	1
Chloromethane (methyl chloride)		<1.00	µg/L	1
Vinyl Chloride		<1.00	µg/L	1
Bromomethane (methyl bromide)		<1.00	µg/L	1
Chloroethane		<1.00	µg/L	1
Trichlorofluoromethane		<1.00	µg/L	1
Acetone		<10.0	µg/L	10
Iodomethane (methyl iodide)		<1.00	µg/L	1
Carbon Disulfide		<1.00	µg/L	1
Acrylonitrile		<1.00	µg/L	1
2-Butanone (MEK)		<5.00	µg/L	5
4-methyl-2-pentanone (MIBK)		<5.00	µg/L	5
2-hexanone		<5.00	µg/L	5

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Param	Flag	Results	Units	Reporting Limit
trans 1,4-Dichloro-2-butene		<10.0	µg/L	10
1,1-Dichloroethene		<1.00	µg/L	1
Methylene chloride		<5.00	µg/L	5
MTBE		<1.00	µg/L	1
trans-1,2-Dichloroethene		<1.00	µg/L	1
1,1-Dichloroethane		<1.00	µg/L	1
cis-1,2-Dichloroethene		<1.00	µg/L	1
2,2-Dichloropropane		<1.00	µg/L	1
1,2-Dichloroethane (EDC)		<1.00	µg/L	1
Chloroform		<1.00	µg/L	1
1,1,1-Trichloroethane		<1.00	µg/L	1
1,1-Dichloropropene		<1.00	µg/L	1
Benzene		<1.00	µg/L	1
Carbon Tetrachloride		<1.00	µg/L	1
1,2-Dichloropropane		<1.00	µg/L	1
Trichloroethene (TCE)		<1.00	µg/L	1
Dibromomethane (methylene bromide)		<1.00	µg/L	1
Bromodichloromethane		<1.00	µg/L	1
2-Chloroethyl vinyl ether		<5.00	µg/L	5
cis-1,3-Dichloropropene		<1.00	µg/L	1
trans-1,3-Dichloropropene		<1.00	µg/L	1
Toluene		<1.00	µg/L	1
1,1,2-Trichloroethane		<1.00	µg/L	1
1,3-Dichloropropane		<1.00	µg/L	1
Dibromochloromethane		<1.00	µg/L	1
1,2-Dibromoethane (EDB)		<1.00	µg/L	1
Tetrachloroethene (PCE)		<1.00	µg/L	1
Chlorobenzene		<1.00	µg/L	1
1,1,1,2-Tetrachloroethane		<1.00	µg/L	1
Ethylbenzene		<1.00	µg/L	1
m,p-Xylene		<1.00	µg/L	1
Bromoform		<1.00	µg/L	1
Styrene		<1.00	µg/L	1
o-Xylene		<1.00	µg/L	1
1,1,2,2-Tetrachloroethane		<1.00	µg/L	1
2-Chlorotoluene		<1.00	µg/L	1
1,2,3-Trichloropropane		<1.00	µg/L	1
Isopropylbenzene		<1.00	µg/L	1
Bromobenzene		<1.00	µg/L	1
n-Propylbenzene		<1.00	µg/L	1
1,3,5-Trimethylbenzene		<1.00	µg/L	1
tert-Butylbenzene		<1.00	µg/L	1
1,2,4-Trimethylbenzene		<1.00	µg/L	1
1,4-Dichlorobenzene (para)		<1.00	µg/L	1
sec-Butylbenzene		<1.00	µg/L	1
1,3-Dichlorobenzene		<1.00	µg/L	1
p-Isopropyltoluene		<1.00	µg/L	1
4-Chlorotoluene		<1.00	µg/L	1
1,2-Dichlorobenzene (ortho)		<1.00	µg/L	1
n-Butylbenzene		<1.00	µg/L	1
1,2-Dibromo-3-chloropropane		<5.00	µg/L	5
1,2,3-Trichlorobenzene		<5.00	µg/L	5
1,2,4-Trichlorobenzene		<5.00	µg/L	5

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Param	Flag	Results	Units	Reporting Limit
Naphthalene		<5.00	µg/L	5
Hexachlorobutadiene		<5.00	µg/L	5

Surrogate	Flag	Result	Units	Spike Amount	Percent Recovery	Recovery Limit
Dibromofluoromethane		51.22	µg/L	50	102	85 - 117
Toluene-d8		51.66	µg/L	50	103	93 - 109
4-Bromofluorobenzene		46.49	µg/L	50	92	76 - 109

Quality Control Report
Lab Control Spikes and Duplicate Spikes

LCS

QC Batch: QC09126

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
1,1-Dichloroethene		104	µg/L	1	100	<1.00	104		71 - 132	20
Benzene		97	µg/L	1	100	<1.00	97		81 - 114	20
Trichloroethene (TCE)		90	µg/L	1	100	<1.00	90		79 - 111	20
Toluene		95	µg/L	1	100	<1.00	95		81 - 110	20
Chlorobenzene		95	µg/L	1	100	<1.00	95		88 - 112	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
Dibromofluoromethane		52.43	µg/L	1	50	104	85 - 117
Toluene-d8		51.47	µg/L	1	50	102	93 - 109
4-Bromofluorobenzene		47.09	µg/L	1	50	94	76 - 109

LCSD

QC Batch: QC09126

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
1,1-Dichloroethene		102	µg/L	1	100	<1.00	102	2	71 - 132	20
Benzene		96	µg/L	1	100	<1.00	96	1	81 - 114	20
Trichloroethene (TCE)		89	µg/L	1	100	<1.00	89	1	79 - 111	20
Toluene		95	µg/L	1	100	<1.00	95	0	81 - 110	20
Chlorobenzene		95	µg/L	1	100	<1.00	95	0	88 - 112	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
Dibromofluoromethane		53.20	µg/L	1	50	106	85 - 117
Toluene-d8		50.00	µg/L	1	50	100	93 - 109

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Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
4-Bromofluorobenzene		47.53	µg/L	1	50	95	76 - 109

LCS

QC Batch: QC09147

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
1,1-Dichloroethene		103	µg/L	1	100	<1.00	103		71 - 132	20
Benzene		96	µg/L	1	100	<1.00	96		81 - 114	20
Trichloroethene (TCE)		89	µg/L	1	100	<1.00	89		79 - 111	20
Toluene		95	µg/L	1	100	<1.00	95		81 - 110	20
Chlorobenzene		93	µg/L	1	100	<1.00	93		88 - 112	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
Dibromofluoromethane		53.34	µg/L	1	50	106	85 - 117
Toluene-d8		49.52	µg/L	1	50	99	93 - 109
4-Bromofluorobenzene		46.27	µg/L	1	50	92	76 - 109

LCSD

QC Batch: QC09147

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
1,1-Dichloroethene		105	µg/L	1	100	<1.00	105	2	71 - 132	20
Benzene		97	µg/L	1	100	<1.00	97	1	81 - 114	20
Trichloroethene (TCE)		91	µg/L	1	100	<1.00	91	2	79 - 111	20
Toluene		96	µg/L	1	100	<1.00	96	1	81 - 110	20
Chlorobenzene		95	µg/L	1	100	<1.00	95	2	88 - 112	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
Dibromofluoromethane		54.22	µg/L	1	50	108	85 - 117
Toluene-d8		49.58	µg/L	1	50	99	93 - 109
4-Bromofluorobenzene		46.88	µg/L	1	50	93	76 - 109

LCS

QC Batch: QC09148

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
1,1-Dichloroethene		85	µg/L	1	100	<1.00	85		71 - 132	20
Benzene		95	µg/L	1	100	<1.00	95		81 - 114	20
Trichloroethene (TCE)		81	µg/L	1	100	<1.00	81		79 - 111	20
Toluene		87	µg/L	1	100	<1.00	87		81 - 110	20

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Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Chlorobenzene		89	µg/L	1	100	<1.00	89		88 - 112	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
Dibromofluoromethane		45.38	µg/L	1	50	90	85 - 117
Toluene-d8		50.38	µg/L	1	50	100	93 - 109
4-Bromofluorobenzene		48.14	µg/L	1	50	96	76 - 109

LCSD QC Batch: QC09148

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
1,1-Dichloroethene		85	µg/L	1	100	<1.00	85	0	71 - 132	20
Benzene		95	µg/L	1	100	<1.00	95	0	81 - 114	20
Trichloroethene (TCE)		81	µg/L	1	100	<1.00	81	0	79 - 111	20
Toluene		87	µg/L	1	100	<1.00	87	0	81 - 110	20
Chlorobenzene		90	µg/L	1	100	<1.00	90	1	88 - 112	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
Dibromofluoromethane		44.33	µg/L	1	50	88	85 - 117
Toluene-d8		51.17	µg/L	1	50	102	93 - 109
4-Bromofluorobenzene		47.27	µg/L	1	50	94	76 - 109

LCS QC Batch: QC09155

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
1,1-Dichloroethene		97	µg/L	1	100	<1.00	97		71 - 132	20
Benzene		98	µg/L	1	100	<1.00	98		81 - 114	20
Trichloroethene (TCE)		85	µg/L	1	100	<1.00	85		79 - 111	20
Toluene		95	µg/L	1	100	<1.00	95		81 - 110	20
Chlorobenzene		95	µg/L	1	100	<1.00	95		88 - 112	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
Dibromofluoromethane		49.91	µg/L	1	50	99	85 - 117
Toluene-d8		49.44	µg/L	1	50	98	93 - 109
4-Bromofluorobenzene		47.53	µg/L	1	50	95	76 - 109

LCSD QC Batch: QC09155

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
1,1-Dichloroethene		96	µg/L	1	100	<1.00	96	1	71 - 132	20
Benzene		99	µg/L	1	100	<1.00	99	1	81 - 114	20
Trichloroethene (TCE)		86	µg/L	1	100	<1.00	86	1	79 - 111	20
Toluene		96	µg/L	1	100	<1.00	96	1	81 - 110	20
Chlorobenzene		96	µg/L	1	100	<1.00	96	1	88 - 112	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
Dibromofluoromethane		50.70	µg/L	1	50	101	85 - 117
Toluene-d8		49.67	µg/L	1	50	99	93 - 109
4-Bromofluorobenzene		47.61	µg/L	1	50	95	76 - 109

Quality Control Report
Matrix Spikes and Duplicate Spikes

MS

QC Batch: QC09126

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
1,1-Dichloroethene		101	µg/L	1	100	<1.00	101		75 - 135	20
Benzene		94	µg/L	1	100	<1.00	94		75 - 135	20
Trichloroethene (TCE)		88	µg/L	1	100	<1.00	88		72 - 119	20
Toluene		93	µg/L	1	100	<1.00	93		74 - 117	20
Chlorobenzene		94	µg/L	1	100	<1.00	94		78 - 122	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
Dibromofluoromethane		54.59	µg/L	1	50	109	85 - 117
Toluene-d8		50.85	µg/L	1	50	101	93 - 109
4-Bromofluorobenzene		46.18	µg/L	1	50	92	76 - 109

MSD

QC Batch: QC09126

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
1,1-Dichloroethene		104	µg/L	1	100	<1.00	104	3	75 - 135	20
Benzene		97	µg/L	1	100	<1.00	97	3	75 - 135	20
Trichloroethene (TCE)		91	µg/L	1	100	<1.00	91	3	72 - 119	20
Toluene		96	µg/L	1	100	<1.00	96	3	74 - 117	20
Chlorobenzene		98	µg/L	1	100	<1.00	98	4	78 - 122	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
Dibromofluoromethane		54.20	µg/L	1	50	108	85 - 117
Toluene-d8		50.21	µg/L	1	50	100	93 - 109
4-Bromofluorobenzene		47.22	µg/L	1	50	94	76 - 109

Quality Control Report
Continuing Calibration Verification Standards

CCV (1)

QC Batch: QC09126

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Vinyl Chloride		µg/L	100	102	102	80 - 120	2/13/01
1,1-Dichloroethene		µg/L	100	99	99	80 - 120	2/13/01
Chloroform		µg/L	100	113	113	80 - 120	2/13/01
1,2-Dichloropropane		µg/L	100	94	94	80 - 120	2/13/01
Toluene		µg/L	100	97	97	80 - 120	2/13/01
Chlorobenzene		µg/L	100	97	97	80 - 120	2/13/01
Ethylbenzene		µg/L	100	101	101	80 - 120	2/13/01
Dibromofluoromethane		µg/L	50	54.80	109	80 - 120	2/13/01
Toluene-d8		µg/L	50	48.28	96	80 - 120	2/13/01
4-Bromofluorobenzene		µg/L	50	55.67	111	80 - 120	2/13/01

CCV (1)

QC Batch: QC09147

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Vinyl Chloride		µg/L	100	100	100	80 - 120	2/15/01
1,1-Dichloroethene		µg/L	100	102	102	80 - 120	2/15/01
Chloroform		µg/L	100	114	114	80 - 120	2/15/01
1,2-Dichloropropane		µg/L	100	92	92	80 - 120	2/15/01
Toluene		µg/L	100	96	96	80 - 120	2/15/01
Chlorobenzene		µg/L	100	95	95	80 - 120	2/15/01
Ethylbenzene		µg/L	100	96	96	80 - 120	2/15/01
Dibromofluoromethane		µg/L	50	55.73	111	80 - 120	2/15/01
Toluene-d8		µg/L	50	48.21	96	80 - 120	2/15/01
4-Bromofluorobenzene		µg/L	50	52.84	105	80 - 120	2/15/01

CCV (1)

QC Batch: QC09148

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Vinyl Chloride		µg/L	100	98	98	80 - 120	2/16/01
1,1-Dichloroethene		µg/L	100	94	94	80 - 120	2/16/01

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Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloroform		µg/L	100	94	94	80 - 120	2/16/01
1,2-Dichloropropane		µg/L	100	90	90	80 - 120	2/16/01
Toluene		µg/L	100	90	90	80 - 120	2/16/01
Chlorobenzene		µg/L	100	92	92	80 - 120	2/16/01
Ethylbenzene		µg/L	100	92	92	80 - 120	2/16/01
Dibromofluoromethane		µg/L	50	46.92	93	80 - 120	2/16/01
Toluene-d8		µg/L	50	49.98	99	80 - 120	2/16/01
4-Bromofluorobenzene		µg/L	50	49.64	99	80 - 120	2/16/01

CCV (1)

QC Batch: QC09155

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Vinyl Chloride		µg/L	100	101	97	80 - 120	2/16/01
1,1-Dichloroethene		µg/L	100	96	97	80 - 120	2/16/01
Chloroform		µg/L	100	98	103	80 - 120	2/16/01
1,2-Dichloropropane		µg/L	100	97	94	80 - 120	2/16/01
Toluene		µg/L	100	95	96	80 - 120	2/16/01
Chlorobenzene		µg/L	100	96	97	80 - 120	2/16/01
Ethylbenzene		µg/L	100	99	100	80 - 120	2/16/01
Dibromofluoromethane		µg/L	50	49.69	98	80 - 120	2/16/01
Toluene-d8		µg/L	50	50.04	98	80 - 120	2/16/01
4-Bromofluorobenzene		µg/L	50	50.60	105	80 - 120	2/16/01

CCV (2)

QC Batch: QC09155

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Vinyl Chloride		µg/L	100	97	97	80 - 120	2/16/01
1,1-Dichloroethene		µg/L	100	97	97	80 - 120	2/16/01
Chloroform		µg/L	100	103	103	80 - 120	2/16/01
1,2-Dichloropropane		µg/L	100	94	94	80 - 120	2/16/01
Toluene		µg/L	100	96	96	80 - 120	2/16/01
Chlorobenzene		µg/L	100	97	97	80 - 120	2/16/01
Ethylbenzene		µg/L	100	100	100	80 - 120	2/16/01
Dibromofluoromethane		µg/L	50	49.31	98	80 - 120	2/16/01
Toluene-d8		µg/L	50	49.15	98	80 - 120	2/16/01
4-Bromofluorobenzene		µg/L	50	52.79	105	80 - 120	2/16/01

Semi-Volatile Organic Results and Quality Control

TRACEANALYSIS, INC.

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Analytical and Quality Control Report

Karen Costa
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Report Date: March 20, 2001

Order ID Number: A01020724

Project Number: 700 A20
Project Name: HELSTF Landfill (Construction)
Project Location: N/A

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace-Analysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
164541	3839-HMW33-0201-QC	Water	2/6/01	12:15	2/7/01
164543	3839-HMW33-0201	Water	2/6/01	12:15	2/7/01
164655	3839-HMW35-0201	Water	2/7/01	15:00	2/7/01
164657	3839-HMW29-0201	Water	2/7/01	12:15	2/7/01
164753	3839-HMW34-0201	Water	2/8/01	13:30	2/8/01
164755	3839-HMW32-0201	Water	2/8/01	14:20	2/8/01

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 19 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Michael T. Allen
Dr. Blair Leftwich, Director

Analytical Report

Sample: 164541 - 3839-HMW33-0201-QC

Analysis:	8270	Analytical Method:	S 8270C	QC Batch:	QC09335	Date Analyzed:	2/15/01
Analyst:	RC	Preparation Method:	E 3510C	Prep Batch:	PB08027	Date Prepared:	2/12/01

Param	Flag	Result	Units	Dilution	RDL
Pyridine		<0.005	mg/L	1	0.005
n-Nitrosodimethylamine		<0.005	mg/L	1	0.005
2-Picoline		<0.005	mg/L	1	0.005
Methyl methanesulfonate		<0.005	mg/L	1	0.005
Ethyl methanesulfonate		<0.005	mg/L	1	0.005
Phenol		<0.005	mg/L	1	0.005
Aniline		<0.005	mg/L	1	0.005
bis (2-chloroethyl) ether		<0.005	mg/L	1	0.005
2-Chlorophenol		<0.005	mg/L	1	0.005
1,3-Dichlorobenzene		<0.005	mg/L	1	0.005
1,4-Dichlorobenzene		<0.005	mg/L	1	0.005
Benzyl alcohol		<0.005	mg/L	1	0.005
1,2-Dichlorobenzene		<0.005	mg/L	1	0.005
2-Methylphenol		<0.005	mg/L	1	0.005
bis (2-chloroisopropyl) ether		<0.005	mg/L	1	0.005
4-Methylphenol/3-Methylphenol		<0.005	mg/L	1	0.005
Acetophenone		<0.005	mg/L	1	0.005
n-Nitrosodi-n-propylamine		<0.005	mg/L	1	0.005
Hexachloroethane		<0.005	mg/L	1	0.005
Nitrobenzene		<0.005	mg/L	1	0.005
n-Nitrosopiperidine		<0.005	mg/L	1	0.005
Isophorone		<0.005	mg/L	1	0.005
2-Nitrophenol		<0.005	mg/L	1	0.005
2,4-Dimethylphenol		<0.005	mg/L	1	0.005
bis (2-chloroethoxy) methane		<0.005	mg/L	1	0.005
Benzoic acid		<0.005	mg/L	1	0.005
2,4-Dichlorophenol		<0.005	mg/L	1	0.005
1,2,4-Trichlorobenzene		<0.005	mg/L	1	0.005
a,a-Dimethylphenethylamine		<0.005	mg/L	1	0.005
Naphthalene		<0.005	mg/L	1	0.005
4-Chloroaniline		<0.005	mg/L	1	0.005
2,6-Dichlorophenol		<0.005	mg/L	1	0.005
Hexachlorobutadiene		<0.005	mg/L	1	0.005
n-Nitroso-di-n-butylamine		<0.005	mg/L	1	0.005
4-Chloro-3-methylphenol		<0.005	mg/L	1	0.005
1-Methylnaphthalene		<0.005	mg/L	1	0.005
2-Methylnaphthalene		<0.005	mg/L	1	0.005
1,2,4,5-Tetrachlorobenzene		<0.005	mg/L	1	0.005
Hexachlorocyclopentadiene		<0.005	mg/L	1	0.005
2,4,6-Trichlorophenol		<0.005	mg/L	1	0.005
2,4,5-Trichlorophenol		<0.005	mg/L	1	0.005
2-Chloronaphthalene		<0.005	mg/L	1	0.005
1-Chloronaphthalene		<0.005	mg/L	1	0.005
2-Nitroaniline		<0.005	mg/L	1	0.005
Dimethylphthalate		<0.005	mg/L	1	0.005
Acenaphthylene		<0.005	mg/L	1	0.005
2,6-Dinitrotoluene		<0.005	mg/L	1	0.005
3-Nitroaniline		<0.005	mg/L	1	0.005

Continued ...

... *Continued* Sample: 164541 Analysis: 8270

Param	Flag	Result	Units	Dilution	RDL
Acenaphthene		<0.005	mg/L	1	0.005
2,4-Dinitrophenol		<0.005	mg/L	1	0.005
Dibenzofuran		<0.005	mg/L	1	0.005
Pentachlorobenzene		<0.005	mg/L	1	0.005
4-Nitrophenol		<0.005	mg/L	1	0.005
1-Naphthylamine		<0.005	mg/L	1	0.005
2,4-Dinitrotoluene		<0.005	mg/L	1	0.005
2-Naphthylamine		<0.005	mg/L	1	0.005
2,3,4,6-Tetrachlorophenol		<0.005	mg/L	1	0.005
Fluorene		<0.005	mg/L	1	0.005
Diethylphthalate		<0.005	mg/L	1	0.005
4-Chlorophenyl-phenylether		<0.005	mg/L	1	0.005
4-Nitroaniline		<0.005	mg/L	1	0.005
4,6-Dinitro-2-methylphenol		<0.005	mg/L	1	0.005
Diphenylamine		<0.005	mg/L	1	0.005
Diphenylhydrazine		<0.005	mg/L	1	0.005
4-Bromophenyl-phenylether		<0.005	mg/L	1	0.005
Phenacetin		<0.005	mg/L	1	0.005
Hexachlorobenzene		<0.005	mg/L	1	0.005
4-Aminobiphenyl		<0.005	mg/L	1	0.005
Pentachlorophenol		<0.005	mg/L	1	0.005
Pentachloronitrobenzene		<0.005	mg/L	1	0.005
Pronamide		<0.005	mg/L	1	0.005
Phenanthrene		<0.005	mg/L	1	0.005
Anthracene		<0.005	mg/L	1	0.005
Di-n-butylphthalate		<0.005	mg/L	1	0.005
Fluoranthene		<0.005	mg/L	1	0.005
Benzidine		<0.005	mg/L	1	0.005
Pyrene		<0.005	mg/L	1	0.005
p-Dimethylaminoazobenzene		<0.005	mg/L	1	0.005
Butylbenzylphthalate		<0.005	mg/L	1	0.005
Benzo(a)anthracene		<0.005	mg/L	1	0.005
3,3-Dichlorobenzidine		<0.005	mg/L	1	0.005
Chrysene		<0.005	mg/L	1	0.005
Bis (2-ethylhexyl) phthalate		<0.005	mg/L	1	0.005
Di-n-octylphthalate		<0.005	mg/L	1	0.005
Benzo(b)fluoranthene		<0.005	mg/L	1	0.005
7,12-Dimethylbenz(a)anthracene		<0.005	mg/L	1	0.005
Benzo(k)fluoranthene		<0.005	mg/L	1	0.005
Benzo(a)pyrene		<0.005	mg/L	1	0.005
3-Methylcholanthrene		<0.005	mg/L	1	0.005
Dibenzo(a,j)acridine		<0.005	mg/L	1	0.005
Indeno(1,2,3-cd)pyrene		<0.005	mg/L	1	0.005
Dibenzo(a,h)anthracene		<0.005	mg/L	1	0.005
Benzo(g,h,i)perylene		<0.005	mg/L	1	0.005

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		30.33	mg/L	1	80	37	21 - 100
Phenol-d5		20.90	mg/L	1	80	26	11 - 94
Nitrobenzene-d5		56.76	mg/L	1	80	70	35 - 114
2-Fluorobiphenyl		57.31	mg/L	1	80	71	43 - 116
2,4,6-Tribromophenol		69.37	mg/L	1	80	86	10 - 123
Terphenyl-d14		45.76	mg/L	1	80	57	33 - 141

Sample: 164543 - 3839-HMW33-0201

Analysis:	8270	Analytical Method:	S 8270C	QC Batch:	QC09335	Date Analyzed:	2/15/01
Analyst:	RC	Preparation Method:	E 3510C	Prep Batch:	PB08027	Date Prepared:	2/12/01

Param	Flag	Result	Units	Dilution	RDL
Pyridine		<0.005	mg/L	1	0.005
n-Nitrosodimethylamine		<0.005	mg/L	1	0.005
2-Picoline		<0.005	mg/L	1	0.005
Methyl methanesulfonate		<0.005	mg/L	1	0.005
Ethyl methanesulfonate		<0.005	mg/L	1	0.005
Phenol		<0.005	mg/L	1	0.005
Aniline		<0.005	mg/L	1	0.005
bis (2-chloroethyl) ether		<0.005	mg/L	1	0.005
2-Chlorophenol		<0.005	mg/L	1	0.005
1,3-Dichlorobenzene		<0.005	mg/L	1	0.005
1,4-Dichlorobenzene		<0.005	mg/L	1	0.005
Benzyl alcohol		<0.005	mg/L	1	0.005
1,2-Dichlorobenzene		<0.005	mg/L	1	0.005
2-Methylphenol		<0.005	mg/L	1	0.005
bis (2-chloroisopropyl) ether		<0.005	mg/L	1	0.005
4-Methylphenol/3-Methylphenol		<0.005	mg/L	1	0.005
Acetophenone		<0.005	mg/L	1	0.005
n-Nitrosodi-n-propylamine		<0.005	mg/L	1	0.005
Hexachloroethane		<0.005	mg/L	1	0.005
Nitrobenzene		<0.005	mg/L	1	0.005
n-Nitrosopiperidine		<0.005	mg/L	1	0.005
Isophorone		<0.005	mg/L	1	0.005
2-Nitrophenol		<0.005	mg/L	1	0.005
2,4-Dimethylphenol		<0.005	mg/L	1	0.005
bis (2-chloroethoxy) methane		<0.005	mg/L	1	0.005
Benzoic acid		<0.005	mg/L	1	0.005
2,4-Dichlorophenol		<0.005	mg/L	1	0.005
1,2,4-Trichlorobenzene		<0.005	mg/L	1	0.005
a,a-Dimethylphenethylamine		<0.005	mg/L	1	0.005
Naphthalene		<0.005	mg/L	1	0.005
4-Chloroaniline		<0.005	mg/L	1	0.005
2,6-Dichlorophenol		<0.005	mg/L	1	0.005
Hexachlorobutadiene		<0.005	mg/L	1	0.005
n-Nitroso-di-n-butylamine		<0.005	mg/L	1	0.005
4-Chloro-3-methylphenol		<0.005	mg/L	1	0.005
1-Methylnaphthalene		<0.005	mg/L	1	0.005
2-Methylnaphthalene		<0.005	mg/L	1	0.005
1,2,4,5-Tetrachlorobenzene		<0.005	mg/L	1	0.005
Hexachlorocyclopentadiene		<0.005	mg/L	1	0.005
2,4,6-Trichlorophenol		<0.005	mg/L	1	0.005
2,4,5-Trichlorophenol		<0.005	mg/L	1	0.005
2-Chloronaphthalene		<0.005	mg/L	1	0.005
1-Chloronaphthalene		<0.005	mg/L	1	0.005
2-Nitroaniline		<0.005	mg/L	1	0.005
Dimethylphthalate		<0.005	mg/L	1	0.005
Acenaphthylene		<0.005	mg/L	1	0.005
2,6-Dinitrotoluene		<0.005	mg/L	1	0.005
3-Nitroaniline		<0.005	mg/L	1	0.005
Acenaphthene		<0.005	mg/L	1	0.005
2,4-Dinitrophenol		<0.005	mg/L	1	0.005
Dibenzofuran		<0.005	mg/L	1	0.005

Continued ...

... *Continued* Sample: 164543 Analysis: 8270

Param	Flag	Result	Units	Dilution	RDL
Pentachlorobenzene		<0.005	mg/L	1	0.005
4-Nitrophenol		<0.005	mg/L	1	0.005
1-Naphthylamine		<0.005	mg/L	1	0.005
2,4-Dinitrotoluene		<0.005	mg/L	1	0.005
2-Naphthylamine		<0.005	mg/L	1	0.005
2,3,4,6-Tetrachlorophenol		<0.005	mg/L	1	0.005
Fluorene		<0.005	mg/L	1	0.005
Diethylphthalate		<0.005	mg/L	1	0.005
4-Chlorophenyl-phenylether		<0.005	mg/L	1	0.005
4-Nitroaniline		<0.005	mg/L	1	0.005
4,6-Dinitro-2-methylphenol		<0.005	mg/L	1	0.005
Diphenylamine		<0.005	mg/L	1	0.005
Diphenylhydrazine		<0.005	mg/L	1	0.005
4-Bromophenyl-phenylether		<0.005	mg/L	1	0.005
Phenacetin		<0.005	mg/L	1	0.005
Hexachlorobenzene		<0.005	mg/L	1	0.005
4-Aminobiphenyl		<0.005	mg/L	1	0.005
Pentachlorophenol		<0.005	mg/L	1	0.005
Pentachloronitrobenzene		<0.005	mg/L	1	0.005
Pronamide		<0.005	mg/L	1	0.005
Phenanthrene		<0.005	mg/L	1	0.005
Anthracene		<0.005	mg/L	1	0.005
Di-n-butylphthalate		<0.005	mg/L	1	0.005
Fluoranthene		<0.005	mg/L	1	0.005
Benzidine		<0.005	mg/L	1	0.005
Pyrene		<0.005	mg/L	1	0.005
p-Dimethylaminoazobenzene		<0.005	mg/L	1	0.005
Butylbenzylphthalate		<0.005	mg/L	1	0.005
Benzo(a)anthracene		<0.005	mg/L	1	0.005
3,3-Dichlorobenzidine		<0.005	mg/L	1	0.005
Chrysene		<0.005	mg/L	1	0.005
Bis (2-ethylhexyl) phthalate		<0.005	mg/L	1	0.005
Di-n-octylphthalate		<0.005	mg/L	1	0.005
Benzo(b)fluoranthene		<0.005	mg/L	1	0.005
7,12-Dimethylbenz(a)anthracene		<0.005	mg/L	1	0.005
Benzo(k)fluoranthene		<0.005	mg/L	1	0.005
Benzo(a)pyrene		<0.005	mg/L	1	0.005
3-Methylcholanthrene		<0.005	mg/L	1	0.005
Dibenzo(a,j)acridine		<0.005	mg/L	1	0.005
Indeno(1,2,3-cd)pyrene		<0.005	mg/L	1	0.005
Dibenzo(a,h)anthracene		<0.005	mg/L	1	0.005
Benzo(g,h,i)perylene		<0.005	mg/L	1	0.005

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		32.79	mg/L	1	80	40	21 - 100
Phenol-d5		22.60	mg/L	1	80	28	11 - 94
Nitrobenzene-d5		58.79	mg/L	1	80	73	35 - 114
2-Fluorobiphenyl		60.47	mg/L	1	80	75	43 - 116
2,4,6-Tribromophenol		69.72	mg/L	1	80	87	10 - 123
Terphenyl-d14		45.56	mg/L	1	80	56	33 - 141

Sample: 164655 - 3839-HMW35-0201

Analysis:	8270	Analytical Method:	S 8270C	QC Batch:	QC09335	Date Analyzed:	2/15/01
Analyst:	RC	Preparation Method:	E 3510C	Prep Batch:	PB08027	Date Prepared:	2/12/01

Param	Flag	Result	Units	Dilution	RDL
Pyridine		<0.005	mg/L	1	0.005
n-Nitrosodimethylamine		<0.005	mg/L	1	0.005
2-Picoline		<0.005	mg/L	1	0.005
Methyl methanesulfonate		<0.005	mg/L	1	0.005
Ethyl methanesulfonate		<0.005	mg/L	1	0.005
Phenol		<0.005	mg/L	1	0.005
Aniline		<0.005	mg/L	1	0.005
bis (2-chloroethyl) ether		<0.005	mg/L	1	0.005
2-Chlorophenol		<0.005	mg/L	1	0.005
1,3-Dichlorobenzene		<0.005	mg/L	1	0.005
1,4-Dichlorobenzene		<0.005	mg/L	1	0.005
Benzyl alcohol		<0.005	mg/L	1	0.005
1,2-Dichlorobenzene		<0.005	mg/L	1	0.005
2-Methylphenol		<0.005	mg/L	1	0.005
bis (2-chloroisopropyl) ether		<0.005	mg/L	1	0.005
4-Methylphenol/3-Methylphenol		<0.005	mg/L	1	0.005
Acetophenone		<0.005	mg/L	1	0.005
n-Nitrosodi-n-propylamine		<0.005	mg/L	1	0.005
Hexachloroethane		<0.005	mg/L	1	0.005
Nitrobenzene		<0.005	mg/L	1	0.005
n-Nitrosopiperidine		<0.005	mg/L	1	0.005
Isophorone		<0.005	mg/L	1	0.005
2-Nitrophenol		<0.005	mg/L	1	0.005
2,4-Dimethylphenol		<0.005	mg/L	1	0.005
bis (2-chloroethoxy) methane		<0.005	mg/L	1	0.005
Benzoic acid		<0.005	mg/L	1	0.005
2,4-Dichlorophenol		<0.005	mg/L	1	0.005
1,2,4-Trichlorobenzene		<0.005	mg/L	1	0.005
a,a-Dimethylphenethylamine		<0.005	mg/L	1	0.005
Naphthalene		<0.005	mg/L	1	0.005
4-Chloroaniline		<0.005	mg/L	1	0.005
2,6-Dichlorophenol		<0.005	mg/L	1	0.005
Hexachlorobutadiene		<0.005	mg/L	1	0.005
n-Nitroso-di-n-butylamine		<0.005	mg/L	1	0.005
4-Chloro-3-methylphenol		<0.005	mg/L	1	0.005
1-Methylnaphthalene		<0.005	mg/L	1	0.005
2-Methylnaphthalene		<0.005	mg/L	1	0.005
1,2,4,5-Tetrachlorobenzene		<0.005	mg/L	1	0.005
Hexachlorocyclopentadiene		<0.005	mg/L	1	0.005
2,4,6-Trichlorophenol		<0.005	mg/L	1	0.005
2,4,5-Trichlorophenol		<0.005	mg/L	1	0.005
2-Chloronaphthalene		<0.005	mg/L	1	0.005
1-Chloronaphthalene		<0.005	mg/L	1	0.005
2-Nitroaniline		<0.005	mg/L	1	0.005
Dimethylphthalate		<0.005	mg/L	1	0.005
Acenaphthylene		<0.005	mg/L	1	0.005
2,6-Dinitrotoluene		<0.005	mg/L	1	0.005
3-Nitroaniline		<0.005	mg/L	1	0.005
Acenaphthene		<0.005	mg/L	1	0.005
2,4-Dinitrophenol		<0.005	mg/L	1	0.005
Dibenzofuran		<0.005	mg/L	1	0.005

Continued ...

... *Continued* Sample: 164655 Analysis: 8270

Param	Flag	Result	Units	Dilution	RDL
Pentachlorobenzene		<0.005	mg/L	1	0.005
4-Nitrophenol		<0.005	mg/L	1	0.005
1-Naphthylamine		<0.005	mg/L	1	0.005
2,4-Dinitrotoluene		<0.005	mg/L	1	0.005
2-Naphthylamine		<0.005	mg/L	1	0.005
2,3,4,6-Tetrachlorophenol		<0.005	mg/L	1	0.005
Fluorene		<0.005	mg/L	1	0.005
Diethylphthalate		<0.005	mg/L	1	0.005
4-Chlorophenyl-phenylether		<0.005	mg/L	1	0.005
4-Nitroaniline		<0.005	mg/L	1	0.005
4,6-Dinitro-2-methylphenol		<0.005	mg/L	1	0.005
Diphenylamine		<0.005	mg/L	1	0.005
Diphenylhydrazine		<0.005	mg/L	1	0.005
4-Bromophenyl-phenylether		<0.005	mg/L	1	0.005
Phenacetin		<0.005	mg/L	1	0.005
Hexachlorobenzene		<0.005	mg/L	1	0.005
4-Aminobiphenyl		<0.005	mg/L	1	0.005
Pentachlorophenol		<0.005	mg/L	1	0.005
Pentachloronitrobenzene		<0.005	mg/L	1	0.005
Pronamide		<0.005	mg/L	1	0.005
Phenanthrene		<0.005	mg/L	1	0.005
Anthracene		<0.005	mg/L	1	0.005
Di-n-butylphthalate		<0.005	mg/L	1	0.005
Fluoranthene		<0.005	mg/L	1	0.005
Benzidine		<0.005	mg/L	1	0.005
Pyrene		<0.005	mg/L	1	0.005
p-Dimethylaminoazobenzene		<0.005	mg/L	1	0.005
Butylbenzylphthalate		<0.005	mg/L	1	0.005
Benzo(a)anthracene		<0.005	mg/L	1	0.005
3,3-Dichlorobenzidine		<0.005	mg/L	1	0.005
Chrysene		<0.005	mg/L	1	0.005
Bis (2-ethylhexyl) phthalate		<0.005	mg/L	1	0.005
Di-n-octylphthalate		<0.005	mg/L	1	0.005
Benzo(b)fluoranthene		<0.005	mg/L	1	0.005
7,12-Dimethylbenz(a)anthracene		<0.005	mg/L	1	0.005
Benzo(k)fluoranthene		<0.005	mg/L	1	0.005
Benzo(a)pyrene		<0.005	mg/L	1	0.005
3-Methylcholanthrene		<0.005	mg/L	1	0.005
Dibenzo(a,j)acridine		<0.005	mg/L	1	0.005
Indeno(1,2,3-cd)pyrene		<0.005	mg/L	1	0.005
Dibenzo(a,h)anthracene		<0.005	mg/L	1	0.005
Benzo(g,h,i)perylene		<0.005	mg/L	1	0.005

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		24.98	mg/L	1	80	31	21 - 100
Phenol-d5		17.76	mg/L	1	80	22	11 - 94
Nitrobenzene-d5		48.51	mg/L	1	80	60	35 - 114
2-Fluorobiphenyl		48.73	mg/L	1	80	60	43 - 116
2,4,6-Tribromophenol		63.79	mg/L	1	80	79	10 - 123
Terphenyl-d14		52.49	mg/L	1	80	65	33 - 141

Sample: 164657 - 3839-HMW29-0201

Analysis:	8270	Analytical Method:	S 8270C	QC Batch:	QC09335	Date Analyzed:	2/15/01
Analyst:	RC	Preparation Method:	E 3510C	Prep Batch:	PB08027	Date Prepared:	2/12/01

Param	Flag	Result	Units	Dilution	RDL
Pyridine		<0.005	mg/L	1	0.005
n-Nitrosodimethylamine		<0.005	mg/L	1	0.005
2-Picoline		<0.005	mg/L	1	0.005
Methyl methanesulfonate		<0.005	mg/L	1	0.005
Ethyl methanesulfonate		<0.005	mg/L	1	0.005
Phenol		<0.005	mg/L	1	0.005
Aniline		<0.005	mg/L	1	0.005
bis (2-chloroethyl) ether		<0.005	mg/L	1	0.005
2-Chlorophenol		<0.005	mg/L	1	0.005
1,3-Dichlorobenzene		<0.005	mg/L	1	0.005
1,4-Dichlorobenzene		<0.005	mg/L	1	0.005
Benzyl alcohol		<0.005	mg/L	1	0.005
1,2-Dichlorobenzene		<0.005	mg/L	1	0.005
2-Methylphenol		<0.005	mg/L	1	0.005
bis (2-chloroisopropyl) ether		<0.005	mg/L	1	0.005
4-Methylphenol/3-Methylphenol		<0.005	mg/L	1	0.005
Acetophenone		<0.005	mg/L	1	0.005
n-Nitrosodi-n-propylamine		<0.005	mg/L	1	0.005
Hexachloroethane		<0.005	mg/L	1	0.005
Nitrobenzene		<0.005	mg/L	1	0.005
n-Nitrosopiperidine		<0.005	mg/L	1	0.005
Isophorone		<0.005	mg/L	1	0.005
2-Nitrophenol		<0.005	mg/L	1	0.005
2,4-Dimethylphenol		<0.005	mg/L	1	0.005
bis (2-chloroethoxy) methane		<0.005	mg/L	1	0.005
Benzoic acid		<0.005	mg/L	1	0.005
2,4-Dichlorophenol		<0.005	mg/L	1	0.005
1,2,4-Trichlorobenzene		<0.005	mg/L	1	0.005
a,a-Dimethylphenethylamine		<0.005	mg/L	1	0.005
Naphthalene		<0.005	mg/L	1	0.005
4-Chloroaniline		<0.005	mg/L	1	0.005
2,6-Dichlorophenol		<0.005	mg/L	1	0.005
Hexachlorobutadiene		<0.005	mg/L	1	0.005
n-Nitroso-di-n-butylamine		<0.005	mg/L	1	0.005
4-Chloro-3-methylphenol		<0.005	mg/L	1	0.005
1-Methylnaphthalene		<0.005	mg/L	1	0.005
2-Methylnaphthalene		<0.005	mg/L	1	0.005
1,2,4,5-Tetrachlorobenzene		<0.005	mg/L	1	0.005
Hexachlorocyclopentadiene		<0.005	mg/L	1	0.005
2,4,6-Trichlorophenol		<0.005	mg/L	1	0.005
2,4,5-Trichlorophenol		<0.005	mg/L	1	0.005
2-Chloronaphthalene		<0.005	mg/L	1	0.005
1-Chloronaphthalene		<0.005	mg/L	1	0.005
2-Nitroaniline		<0.005	mg/L	1	0.005
Dimethylphthalate		<0.005	mg/L	1	0.005
Acenaphthylene		<0.005	mg/L	1	0.005
2,6-Dinitrotoluene		<0.005	mg/L	1	0.005
3-Nitroaniline		<0.005	mg/L	1	0.005
Acenaphthene		<0.005	mg/L	1	0.005
2,4-Dinitrophenol		<0.005	mg/L	1	0.005
Dibenzofuran		<0.005	mg/L	1	0.005

Continued . . .

... *Continued* Sample: 164657 Analysis: 8270

Param	Flag	Result	Units	Dilution	RDL
Pentachlorobenzene		<0.005	mg/L	1	0.005
4-Nitrophenol		<0.005	mg/L	1	0.005
1-Naphthylamine		<0.005	mg/L	1	0.005
2,4-Dinitrotoluene		<0.005	mg/L	1	0.005
2-Naphthylamine		<0.005	mg/L	1	0.005
2,3,4,6-Tetrachlorophenol		<0.005	mg/L	1	0.005
Fluorene		<0.005	mg/L	1	0.005
Diethylphthalate		<0.005	mg/L	1	0.005
4-Chlorophenyl-phenylether		<0.005	mg/L	1	0.005
4-Nitroaniline		<0.005	mg/L	1	0.005
4,6-Dinitro-2-methylphenol		<0.005	mg/L	1	0.005
Diphenylamine		<0.005	mg/L	1	0.005
Diphenylhydrazine		<0.005	mg/L	1	0.005
4-Bromophenyl-phenylether		<0.005	mg/L	1	0.005
Phenacetin		<0.005	mg/L	1	0.005
Hexachlorobenzene		<0.005	mg/L	1	0.005
4-Aminobiphenyl		<0.005	mg/L	1	0.005
Pentachlorophenol		<0.005	mg/L	1	0.005
Pentachloronitrobenzene		<0.005	mg/L	1	0.005
Pronamide		<0.005	mg/L	1	0.005
Phenanthrene		<0.005	mg/L	1	0.005
Anthracene		<0.005	mg/L	1	0.005
Di-n-butylphthalate		<0.005	mg/L	1	0.005
Fluoranthene		<0.005	mg/L	1	0.005
Benzidine		<0.005	mg/L	1	0.005
Pyrene		<0.005	mg/L	1	0.005
p-Dimethylaminoazobenzene		<0.005	mg/L	1	0.005
Butylbenzylphthalate		<0.005	mg/L	1	0.005
Benzo(a)anthracene		<0.005	mg/L	1	0.005
3,3-Dichlorobenzidine		<0.005	mg/L	1	0.005
Chrysene		<0.005	mg/L	1	0.005
Bis (2-ethylhexyl) phthalate		<0.005	mg/L	1	0.005
Di-n-octylphthalate		<0.005	mg/L	1	0.005
Benzo(b)fluoranthene		<0.005	mg/L	1	0.005
7,12-Dimethylbenz(a)anthracene		<0.005	mg/L	1	0.005
Benzo(k)fluoranthene		<0.005	mg/L	1	0.005
Benzo(a)pyrene		<0.005	mg/L	1	0.005
3-Methylcholanthrene		<0.005	mg/L	1	0.005
Dibenzo(a,j)acridine		<0.005	mg/L	1	0.005
Indeno(1,2,3-cd)pyrene		<0.005	mg/L	1	0.005
Dibenzo(a,h)anthracene		<0.005	mg/L	1	0.005
Benzo(g,h,i)perylene		<0.005	mg/L	1	0.005

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		27.32	mg/L	1	80	34	21 - 100
Phenol-d5		18.89	mg/L	1	80	23	11 - 94
Nitrobenzene-d5		54.10	mg/L	1	80	67	35 - 114
2-Fluorobiphenyl		56.14	mg/L	1	80	70	43 - 116
2,4,6-Tribromophenol		55.49	mg/L	1	80	83	10 - 123
Terphenyl-d14		48.83	mg/L	1	80	61	33 - 141

Sample: 164753 - 3839-HMW34-0201

Analysis:	8270	Analytical Method:	S 8270C	QC Batch:	QC09335	Date Analyzed:	2/15/01
Analyst:	RC	Preparation Method:	E 3510C	Prep Batch:	PB08027	Date Prepared:	2/12/01

Param	Flag	Result	Units	Dilution	RDL
Pyridine		<0.005	mg/L	1	0.005
n-Nitrosodimethylamine		<0.005	mg/L	1	0.005
2-Picoline		<0.005	mg/L	1	0.005
Methyl methanesulfonate		<0.005	mg/L	1	0.005
Ethyl methanesulfonate		<0.005	mg/L	1	0.005
Phenol		<0.005	mg/L	1	0.005
Aniline		<0.005	mg/L	1	0.005
bis (2-chloroethyl) ether		<0.005	mg/L	1	0.005
2-Chlorophenol		<0.005	mg/L	1	0.005
1,3-Dichlorobenzene		<0.005	mg/L	1	0.005
1,4-Dichlorobenzene		<0.005	mg/L	1	0.005
Benzyl alcohol		<0.005	mg/L	1	0.005
1,2-Dichlorobenzene		<0.005	mg/L	1	0.005
2-Methylphenol		<0.005	mg/L	1	0.005
bis (2-chloroisopropyl) ether		<0.005	mg/L	1	0.005
4-Methylphenol/3-Methylphenol		<0.005	mg/L	1	0.005
Acetophenone		<0.005	mg/L	1	0.005
n-Nitrosodi-n-propylamine		<0.005	mg/L	1	0.005
Hexachloroethane		<0.005	mg/L	1	0.005
Nitrobenzene		<0.005	mg/L	1	0.005
n-Nitrosopiperidine		<0.005	mg/L	1	0.005
Isophorone		<0.005	mg/L	1	0.005
2-Nitrophenol		<0.005	mg/L	1	0.005
2,4-Dimethylphenol		<0.005	mg/L	1	0.005
bis (2-chloroethoxy) methane		<0.005	mg/L	1	0.005
Benzoic acid		<0.005	mg/L	1	0.005
2,4-Dichlorophenol		<0.005	mg/L	1	0.005
1,2,4-Trichlorobenzene		<0.005	mg/L	1	0.005
a,a-Dimethylphenethylamine		<0.005	mg/L	1	0.005
Naphthalene		<0.005	mg/L	1	0.005
4-Chloroaniline		<0.005	mg/L	1	0.005
2,6-Dichlorophenol		<0.005	mg/L	1	0.005
Hexachlorobutadiene		<0.005	mg/L	1	0.005
n-Nitroso-di-n-butylamine		<0.005	mg/L	1	0.005
4-Chloro-3-methylphenol		<0.005	mg/L	1	0.005
1-Methylnaphthalene		<0.005	mg/L	1	0.005
2-Methylnaphthalene		<0.005	mg/L	1	0.005
1,2,4,5-Tetrachlorobenzene		<0.005	mg/L	1	0.005
Hexachlorocyclopentadiene		<0.005	mg/L	1	0.005
2,4,6-Trichlorophenol		<0.005	mg/L	1	0.005
2,4,5-Trichlorophenol		<0.005	mg/L	1	0.005
2-Chloronaphthalene		<0.005	mg/L	1	0.005
1-Chloronaphthalene		<0.005	mg/L	1	0.005
2-Nitroaniline		<0.005	mg/L	1	0.005
Dimethylphthalate		<0.005	mg/L	1	0.005
Acenaphthylene		<0.005	mg/L	1	0.005
2,6-Dinitrotoluene		<0.005	mg/L	1	0.005
3-Nitroaniline		<0.005	mg/L	1	0.005
Acenaphthene		<0.005	mg/L	1	0.005
2,4-Dinitrophenol		<0.005	mg/L	1	0.005
Dibenzofuran		<0.005	mg/L	1	0.005

Continued ...

... *Continued* Sample: 164753 Analysis: 8270

Param	Flag	Result	Units	Dilution	RDL
Pentachlorobenzene		<0.005	mg/L	1	0.005
4-Nitrophenol		<0.005	mg/L	1	0.005
1-Naphthylamine		<0.005	mg/L	1	0.005
2,4-Dinitrotoluene		<0.005	mg/L	1	0.005
2-Naphthylamine		<0.005	mg/L	1	0.005
2,3,4,6-Tetrachlorophenol		<0.005	mg/L	1	0.005
Fluorene		<0.005	mg/L	1	0.005
Diethylphthalate		<0.005	mg/L	1	0.005
4-Chlorophenyl-phenylether		<0.005	mg/L	1	0.005
4-Nitroaniline		<0.005	mg/L	1	0.005
4,6-Dinitro-2-methylphenol		<0.005	mg/L	1	0.005
Diphenylamine		<0.005	mg/L	1	0.005
Diphenylhydrazine		<0.005	mg/L	1	0.005
4-Bromophenyl-phenylether		<0.005	mg/L	1	0.005
Phenacetin		<0.005	mg/L	1	0.005
Hexachlorobenzene		<0.005	mg/L	1	0.005
4-Aminobiphenyl		<0.005	mg/L	1	0.005
Pentachlorophenol		<0.005	mg/L	1	0.005
Pentachloronitrobenzene		<0.005	mg/L	1	0.005
Pronamide		<0.005	mg/L	1	0.005
Phenanthrene		<0.005	mg/L	1	0.005
Anthracene		<0.005	mg/L	1	0.005
Di-n-butylphthalate		<0.005	mg/L	1	0.005
Fluoranthene		<0.005	mg/L	1	0.005
Benzidine		<0.005	mg/L	1	0.005
Pyrene		<0.005	mg/L	1	0.005
p-Dimethylaminoazobenzene		<0.005	mg/L	1	0.005
Butylbenzylphthalate		<0.005	mg/L	1	0.005
Benzo(a)anthracene		<0.005	mg/L	1	0.005
3,3-Dichlorobenzidine		<0.005	mg/L	1	0.005
Chrysene		<0.005	mg/L	1	0.005
Bis (2-ethylhexyl) phthalate		<0.005	mg/L	1	0.005
Di-n-octylphthalate		<0.005	mg/L	1	0.005
Benzo(b)fluoranthene		<0.005	mg/L	1	0.005
7,12-Dimethylbenz(a)anthracene		<0.005	mg/L	1	0.005
Benzo(k)fluoranthene		<0.005	mg/L	1	0.005
Benzo(a)pyrene		<0.005	mg/L	1	0.005
3-Methylcholanthrene		<0.005	mg/L	1	0.005
Dibenzo(a,j)acridine		<0.005	mg/L	1	0.005
Indeno(1,2,3-cd)pyrene		<0.005	mg/L	1	0.005
Dibenzo(a,h)anthracene		<0.005	mg/L	1	0.005
Benzo(g,h,i)perylene		<0.005	mg/L	1	0.005

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		28.65	mg/L	1	80	35	21 - 100
Phenol-d5		19.47	mg/L	1	80	24	11 - 94
Nitrobenzene-d5		56.84	mg/L	1	80	71	35 - 114
2-Fluorobiphenyl		57.32	mg/L	1	80	71	43 - 116
2,4,6-Tribromophenol		66.29	mg/L	1	80	82	10 - 123
Terphenyl-d14		50.68	mg/L	1	80	63	33 - 141

Sample: 164755 - 3839-HMW32-0201

Analysis:	8270	Analytical Method:	S 8270C	QC Batch:	QC09335	Date Analyzed:	2/15/01
Analyst:	RC	Preparation Method:	E 3510C	Prep Batch:	PB08027	Date Prepared:	2/12/01

Param	Flag	Result	Units	Dilution	RDL
Pyridine		<0.005	mg/L	1	0.005
n-Nitrosodimethylamine		<0.005	mg/L	1	0.005
2-Picoline		<0.005	mg/L	1	0.005
Methyl methanesulfonate		<0.005	mg/L	1	0.005
Ethyl methanesulfonate		<0.005	mg/L	1	0.005
Phenol		<0.005	mg/L	1	0.005
Aniline		<0.005	mg/L	1	0.005
bis (2-chloroethyl) ether		<0.005	mg/L	1	0.005
2-Chlorophenol		<0.005	mg/L	1	0.005
1,3-Dichlorobenzene		<0.005	mg/L	1	0.005
1,4-Dichlorobenzene		<0.005	mg/L	1	0.005
Benzyl alcohol		<0.005	mg/L	1	0.005
1,2-Dichlorobenzene		<0.005	mg/L	1	0.005
2-Methylphenol		<0.005	mg/L	1	0.005
bis (2-chloroisopropyl) ether		<0.005	mg/L	1	0.005
4-Methylphenol/3-Methylphenol		<0.005	mg/L	1	0.005
Acetophenone		<0.005	mg/L	1	0.005
n-Nitrosodi-n-propylamine		<0.005	mg/L	1	0.005
Hexachloroethane		<0.005	mg/L	1	0.005
Nitrobenzene		<0.005	mg/L	1	0.005
n-Nitrosopiperidine		<0.005	mg/L	1	0.005
Isophorone		<0.005	mg/L	1	0.005
2-Nitrophenol		<0.005	mg/L	1	0.005
2,4-Dimethylphenol		<0.005	mg/L	1	0.005
bis (2-chloroethoxy) methane		<0.005	mg/L	1	0.005
Benzoic acid		<0.005	mg/L	1	0.005
2,4-Dichlorophenol		<0.005	mg/L	1	0.005
1,2,4-Trichlorobenzene		<0.005	mg/L	1	0.005
a,a-Dimethylphenethylamine		<0.005	mg/L	1	0.005
Naphthalene		<0.005	mg/L	1	0.005
4-Chloroaniline		<0.005	mg/L	1	0.005
2,6-Dichlorophenol		<0.005	mg/L	1	0.005
Hexachlorobutadiene		<0.005	mg/L	1	0.005
n-Nitroso-di-n-butylamine		<0.005	mg/L	1	0.005
4-Chloro-3-methylphenol		<0.005	mg/L	1	0.005
1-Methylnaphthalene		<0.005	mg/L	1	0.005
2-Methylnaphthalene		<0.005	mg/L	1	0.005
1,2,4,5-Tetrachlorobenzene		<0.005	mg/L	1	0.005
Hexachlorocyclopentadiene		<0.005	mg/L	1	0.005
2,4,6-Trichlorophenol		<0.005	mg/L	1	0.005
2,4,5-Trichlorophenol		<0.005	mg/L	1	0.005
2-Chloronaphthalene		<0.005	mg/L	1	0.005
1-Chloronaphthalene		<0.005	mg/L	1	0.005
2-Nitroaniline		<0.005	mg/L	1	0.005
Dimethylphthalate		<0.005	mg/L	1	0.005
Acenaphthylene		<0.005	mg/L	1	0.005
2,6-Dinitrotoluene		<0.005	mg/L	1	0.005
3-Nitroaniline		<0.005	mg/L	1	0.005
Acenaphthene		<0.005	mg/L	1	0.005
2,4-Dinitrophenol		<0.005	mg/L	1	0.005
Dibenzofuran		<0.005	mg/L	1	0.005

Continued ...

... *Continued* Sample: 164755 Analysis: 8270

Param	Flag	Result	Units	Dilution	RDL
Pentachlorobenzene		<0.005	mg/L	1	0.005
4-Nitrophenol		<0.005	mg/L	1	0.005
1-Naphthylamine		<0.005	mg/L	1	0.005
2,4-Dinitrotoluene		<0.005	mg/L	1	0.005
2-Naphthylamine		<0.005	mg/L	1	0.005
2,3,4,6-Tetrachlorophenol		<0.005	mg/L	1	0.005
Fluorene		<0.005	mg/L	1	0.005
Diethylphthalate		<0.005	mg/L	1	0.005
4-Chlorophenyl-phenylether		<0.005	mg/L	1	0.005
4-Nitroaniline		<0.005	mg/L	1	0.005
4,6-Dinitro-2-methylphenol		<0.005	mg/L	1	0.005
Diphenylamine		<0.005	mg/L	1	0.005
Diphenylhydrazine		<0.005	mg/L	1	0.005
4-Bromophenyl-phenylether		<0.005	mg/L	1	0.005
Phenacetin		<0.005	mg/L	1	0.005
Hexachlorobenzene		<0.005	mg/L	1	0.005
4-Aminobiphenyl		<0.005	mg/L	1	0.005
Pentachlorophenol		<0.005	mg/L	1	0.005
Pentachloronitrobenzene		<0.005	mg/L	1	0.005
Pronamide		<0.005	mg/L	1	0.005
Phenanthrene		<0.005	mg/L	1	0.005
Anthracene		<0.005	mg/L	1	0.005
Di-n-butylphthalate		<0.005	mg/L	1	0.005
Fluoranthene		<0.005	mg/L	1	0.005
Benzidine		<0.005	mg/L	1	0.005
Pyrene		<0.005	mg/L	1	0.005
p-Dimethylaminoazobenzene		<0.005	mg/L	1	0.005
Butylbenzylphthalate		<0.005	mg/L	1	0.005
Benzo(a)anthracene		<0.005	mg/L	1	0.005
3,3-Dichlorobenzidine		<0.005	mg/L	1	0.005
Chrysene		<0.005	mg/L	1	0.005
Bis (2-ethylhexyl) phthalate		<0.005	mg/L	1	0.005
Di-n-octylphthalate		<0.005	mg/L	1	0.005
Benzo(b)fluoranthene		<0.005	mg/L	1	0.005
7,12-Dimethylbenz(a)anthracene		<0.005	mg/L	1	0.005
Benzo(k)fluoranthene		<0.005	mg/L	1	0.005
Benzo(a)pyrene		<0.005	mg/L	1	0.005
3-Methylcholanthrene		<0.005	mg/L	1	0.005
Dibenzo(a,j)acridine		<0.005	mg/L	1	0.005
Indeno(1,2,3-cd)pyrene		<0.005	mg/L	1	0.005
Dibenzo(a,h)anthracene		<0.005	mg/L	1	0.005
Benzo(g,h,i)perylene		<0.005	mg/L	1	0.005

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		29.41	mg/L	1	80	36	21 - 100
Phenol-d5		20.35	mg/L	1	80	25	11 - 94
Nitrobenzene-d5		53.94	mg/L	1	80	67	35 - 114
2-Fluorobiphenyl		55.07	mg/L	1	80	68	43 - 116
2,4,6-Tribromophenol		62.71	mg/L	1	80	78	10 - 123
Terphenyl-d14		53.46	mg/L	1	80	66	33 - 141

Quality Control Report
Method Blank

Method Blank

QCBatch: QC09335

Param	Flag	Results	Units	Reporting Limit
Pyridine		<0.005	mg/L	0.005
n-Nitrosodimethylamine		<0.005	mg/L	0.005
2-Picoline		<0.005	mg/L	0.005
Methyl methanesulfonate		<0.005	mg/L	0.005
Ethyl methanesulfonate		<0.005	mg/L	0.005
Phenol		<0.005	mg/L	0.005
Aniline		<0.005	mg/L	0.005
bis (2-chloroethyl) ether		<0.005	mg/L	0.005
2-Chlorophenol		<0.005	mg/L	0.005
1,3-Dichlorobenzene		<0.005	mg/L	0.005
1,4-Dichlorobenzene		<0.005	mg/L	0.005
Benzyl alcohol		<0.005	mg/L	0.005
1,2-Dichlorobenzene		<0.005	mg/L	0.005
2-Methylphenol		<0.005	mg/L	0.005
bis (2-chloroisopropyl) ether		<0.005	mg/L	0.005
4-Methylphenol/3-Methylphenol		<0.005	mg/L	0.005
Acetophenone		<0.005	mg/L	0.005
n-Nitrosodi-n-propylamine		<0.005	mg/L	0.005
Hexachloroethane		<0.005	mg/L	0.005
Nitrobenzene		<0.005	mg/L	0.005
n-Nitrosopiperidine		<0.005	mg/L	0.005
Isophorone		<0.005	mg/L	0.005
2-Nitrophenol		<0.005	mg/L	0.005
2,4-Dimethylphenol		<0.005	mg/L	0.005
bis (2-chloroethoxy) methane		<0.005	mg/L	0.005
Benzoic acid		<0.005	mg/L	0.005
2,4-Dichlorophenol		<0.005	mg/L	0.005
1,2,4-Trichlorobenzene		<0.005	mg/L	0.005
a,a-Dimethylphenethylamine		<0.005	mg/L	0.005
Naphthalene		<0.005	mg/L	0.005
4-Chloroaniline		<0.005	mg/L	0.005
2,6-Dichlorophenol		<0.005	mg/L	0.005
Hexachlorobutadiene		<0.005	mg/L	0.005
n-Nitroso-di-n-butylamine		<0.005	mg/L	0.005
4-Chloro-3-methylphenol		<0.005	mg/L	0.005
1-Methylnaphthalene		<0.005	mg/L	0.005
2-Methylnaphthalene		<0.005	mg/L	0.005
1,2,4,5-Tetrachlorobenzene		<0.005	mg/L	0.005
Hexachlorocyclopentadiene		<0.005	mg/L	0.005
2,4,6-Trichlorophenol		<0.005	mg/L	0.005
2,4,5-Trichlorophenol		<0.005	mg/L	0.005
2-Chloronaphthalene		<0.005	mg/L	0.005
1-Chloronaphthalene		<0.005	mg/L	0.005
2-Nitroaniline		<0.005	mg/L	0.005
Dimethylphthalate		<0.005	mg/L	0.005
Acenaphthylene		<0.005	mg/L	0.005
2,6-Dinitrotoluene		<0.005	mg/L	0.005
3-Nitroaniline		<0.005	mg/L	0.005

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Param	Flag	Results	Units	Reporting Limit
Acenaphthene		<0.005	mg/L	0.005
2,4-Dinitrophenol		<0.005	mg/L	0.005
Dibenzofuran		<0.005	mg/L	0.005
Pentachlorobenzene		<0.005	mg/L	0.005
4-Nitrophenol		<0.005	mg/L	0.005
1-Naphthylamine		<0.005	mg/L	0.005
2,4-Dinitrotoluene		<0.005	mg/L	0.005
2-Naphthylamine		<0.005	mg/L	0.005
2,3,4,6-Tetrachlorophenol		<0.005	mg/L	0.005
Fluorene		<0.005	mg/L	0.005
Diethylphthalate		<0.005	mg/L	0.005
4-Chlorophenyl-phenylether		<0.005	mg/L	0.005
4-Nitroaniline		<0.005	mg/L	0.005
4,6-Dinitro-2-methylphenol		<0.005	mg/L	0.005
Diphenylamine		<0.005	mg/L	0.005
Diphenylhydrazine		<0.005	mg/L	0.005
4-Bromophenyl-phenylether		<0.005	mg/L	0.005
Phenacetin		<0.005	mg/L	0.005
Hexachlorobenzene		<0.005	mg/L	0.005
4-Aminobiphenyl		<0.005	mg/L	0.005
Pentachlorophenol		<0.005	mg/L	0.005
Pentachloronitrobenzene		<0.005	mg/L	0.005
Pronamide		<0.005	mg/L	0.005
Phenanthrene		<0.005	mg/L	0.005
Anthracene		<0.005	mg/L	0.005
Di-n-butylphthalate		<0.005	mg/L	0.005
Fluoranthene		<0.005	mg/L	0.005
Benzidine		<0.005	mg/L	0.005
Pyrene		<0.005	mg/L	0.005
p-Dimethylaminoazobenzene		<0.005	mg/L	0.005
Butylbenzylphthalate		<0.005	mg/L	0.005
Benzo(a)anthracene		<0.005	mg/L	0.005
3,3-Dichlorobenzidine		<0.005	mg/L	0.005
Chrysene		<0.005	mg/L	0.005
Bis (2-ethylhexyl) phthalate		<0.005	mg/L	0.005
Di-n-octylphthalate		<0.005	mg/L	0.005
Benzo(b)fluoranthene		<0.005	mg/L	0.005
7,12-Dimethylbenz(a)anthracene		<0.005	mg/L	0.005
Benzo(k)fluoranthene		<0.005	mg/L	0.005
Benzo(a)pyrene		<0.005	mg/L	0.005
3-Methylcholanthrene		<0.005	mg/L	0.005
Dibenzo(a,j)acridine		<0.005	mg/L	0.005
Indeno(1,2,3-cd)pyrene		<0.005	mg/L	0.005
Dibenzo(a,h)anthracene		<0.005	mg/L	0.005
Benzo(g,h,i)perylene		<0.005	mg/L	0.005

Surrogate	Flag	Result	Units	Spike Amount	Percent Recovery	Recovery Limit
2-Fluorophenol		27.76	mg/L	80	34	21 - 100
Phenol-d5		17.37	mg/L	80	21	11 - 94
Nitrobenzene-d5		60.78	mg/L	80	75	35 - 114
2-Fluorobiphenyl		60.98	mg/L	80	76	43 - 116
2,4,6-Tribromophenol		75.47	mg/L	80	94	10 - 123

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Surrogate	Flag	Result	Units	Spike Amount	Percent Recovery	Recovery Limit
Terphenyl-d14		66.67	mg/L	80	83	33 - 141

Quality Control Report
Lab Control Spikes and Duplicate Spikes

LCS

QC Batch: QC09335

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Phenol		18	mg/L	1	80	<0.005	22		5 - 112	20
2-Chlorophenol		51.48	mg/L	1	80	<0.005	64		23 - 134	20
1,4-Dichlorobenzene		46.14	mg/L	1	80	<0.005	57		20 - 124	20
n-Nitrosodi-n-propylamine		68.54	mg/L	1	80	<0.005	85		0 - 230	20
1,2,4-Trichlorobenzene		52.95	mg/L	1	80	<0.005	66		44 - 142	20
4-Chloro-3-methylphenol		60.16	mg/L	1	80	<0.005	75		22 - 147	20
Acenaphthene		60.03	mg/L	1	80	<0.005	75		47 - 145	20
4-Nitrophenol		20	mg/L	1	80	<0.005	25		0 - 132	20
2,4-Dinitrotoluene		71.62	mg/L	1	80	<0.005	89		39 - 139	20
Pentachlorophenol		76.56	mg/L	1	80	<0.005	95		14 - 176	20
Pyrene		59.01	mg/L	1	80	<0.005	73		52 - 115	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
2-Fluorophenol		25.92	mg/L	1	80	32	21 - 100
Phenol-d5		19.07	mg/L	1	80	23	11 - 94
Nitrobenzene-d5		56.38	mg/L	1	80	70	35 - 114
2-Fluorobiphenyl		55.32	mg/L	1	80	69	43 - 116
2,4,6-Tribromophenol		71.36	mg/L	1	80	89	10 - 123
Terphenyl-d14		54.89	mg/L	1	80	68	33 - 141

LCSD

QC Batch: QC09335

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Phenol		17.6	mg/L	1	80	<0.005	22	2	5 - 112	20
2-Chlorophenol		50.62	mg/L	1	80	<0.005	63	2	23 - 134	20
1,4-Dichlorobenzene		46.12	mg/L	1	80	<0.005	57	0	20 - 124	20
n-Nitrosodi-n-propylamine		67.04	mg/L	1	80	<0.005	83	2	0 - 230	20
1,2,4-Trichlorobenzene		52.94	mg/L	1	80	<0.005	66	0	44 - 142	20
4-Chloro-3-methylphenol		60.97	mg/L	1	80	<0.005	76	1	22 - 147	20
Acenaphthene		61.64	mg/L	1	80	<0.005	77	3	47 - 145	20
4-Nitrophenol		20	mg/L	1	80	<0.005	25	0	0 - 132	20
2,4-Dinitrotoluene		72	mg/L	1	80	<0.005	90	0	39 - 139	20
Pentachlorophenol		75.48	mg/L	1	80	<0.005	94	1	14 - 176	20
Pyrene		64.31	mg/L	1	80	<0.005	80	8	52 - 115	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
2-Fluorophenol		25.79	mg/L	1	80	32	21 - 100
Phenol-d5		18.57	mg/L	1	80	23	11 - 94
Nitrobenzene-d5		55.36	mg/L	1	80	69	35 - 114
2-Fluorobiphenyl		55.60	mg/L	1	80	69	43 - 116
2,4,6-Tribromophenol		72.05	mg/L	1	80	90	10 - 123
Terphenyl-d14		60.67	mg/L	1	80	75	33 - 141

Quality Control Report
Matrix Spikes and Duplicate Spikes

MS

QC Batch: QC09335

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Phenol		21.12	mg/L	1	80	<0.005	26		5 - 112	20
2-Chlorophenol		51.29	mg/L	1	80	<0.005	64		23 - 134	20
1,4-Dichlorobenzene		48.05	mg/L	1	80	<0.005	60		20 - 124	20
n-Nitrosodi-n-propylamine		66.53	mg/L	1	80	<0.005	83		0 - 230	20
1,2,4-Trichlorobenzene		54.98	mg/L	1	80	<0.005	68		44 - 142	20
4-Chloro-3-methylphenol		59.9	mg/L	1	80	<0.005	74		22 - 147	20
Acenaphthene		64.83	mg/L	1	80	<0.005	81		47 - 145	20
4-Nitrophenol		24	mg/L	1	80	<0.005	30		0 - 132	20
2,4-Dinitrotoluene		75.26	mg/L	1	80	<0.005	94		39 - 139	20
Pentachlorophenol		75.25	mg/L	1	80	<0.005	94		14 - 176	20
Pyrene		66.61	mg/L	1	80	<0.005	83		52 - 115	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
2-Fluorophenol		29.70	mg/L	1	80	37	21 - 100
Phenol-d5		21.79	mg/L	1	80	27	11 - 94
Nitrobenzene-d5		57.55	mg/L	1	80	71	35 - 114
2-Fluorobiphenyl		60.85	mg/L	1	80	76	43 - 116
2,4,6-Tribromophenol		73.88	mg/L	1	80	92	10 - 123
Terphenyl-d14		51.33	mg/L	1	80	64	33 - 141

MSD

QC Batch: QC09335

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Phenol		21.67	mg/L	1	80	<0.005	27	2	5 - 112	20
2-Chlorophenol		52.53	mg/L	1	80	<0.005	65	2	23 - 134	20
1,4-Dichlorobenzene		48.76	mg/L	1	80	<0.005	60	1	20 - 124	20
n-Nitrosodi-n-propylamine		65.49	mg/L	1	80	<0.005	81	2	0 - 230	20
1,2,4-Trichlorobenzene		54.59	mg/L	1	80	<0.005	68	1	44 - 142	20
4-Chloro-3-methylphenol		60.78	mg/L	1	80	<0.005	75	1	22 - 147	20

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Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Acenaphthene		65.15	mg/L	1	80	<0.005	81	0	47 - 145	20
4-Nitrophenol		24	mg/L	1	80	<0.005	30	0	0 - 132	20
2,4-Dinitrotoluene		75.8	mg/L	1	80	<0.005	94	1	39 - 139	20
Pentachlorophenol		74.53	mg/L	1	80	<0.005	93	1	14 - 176	20
Pyrene		57.94	mg/L	1	80	<0.005	72	14	52 - 115	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
2-Fluorophenol		31.35	mg/L	1	80	39	21 - 100
Phenol-d5		22.23	mg/L	1	80	27	11 - 94
Nitrobenzene-d5		57.93	mg/L	1	80	72	35 - 114
2-Fluorobiphenyl		60.36	mg/L	1	80	75	43 - 116
2,4,6-Tribromophenol		73.31	mg/L	1	80	91	10 - 123
Terphenyl-d14		44.71	mg/L	1	80	55	33 - 141

Quality Control Report
Continuing Calibration Verification Standards

CCV (1)

QC Batch: QC09335

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Phenol		mg/L	60	66.16	110	80 - 120	2/15/01
1,4-Dichlorobenzene		mg/L	60	62.47	104	80 - 120	2/15/01
2-Nitrophenol		mg/L	60	66.85	111	80 - 120	2/15/01
2,4-Dichlorophenol		mg/L	60	64.90	108	80 - 120	2/15/01
Hexachlorobutadiene		mg/L	60	68.41	114	80 - 120	2/15/01
4-Chloro-3-methylphenol		mg/L	60	71.21	118	80 - 120	2/15/01
2,4,6-Trichlorophenol		mg/L	60	68.68	114	80 - 120	2/15/01
Acenaphthene		mg/L	60	62.30	103	80 - 120	2/15/01
Diphenylamine		mg/L	60	56.19	93	80 - 120	2/15/01
Pentachlorophenol		mg/L	60	69.46	115	80 - 120	2/15/01
Fluoranthene		mg/L	60	61.20	102	80 - 120	2/15/01
Di-n-octylphthalate		mg/L	60	61.69	102	80 - 120	2/15/01
Benzo(a)pyrene		mg/L	60	62.91	104	80 - 120	2/15/01

CCV (2)

QC Batch: QC09335

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Phenol		mg/L	60	68.20	113	80 - 120	2/15/01
1,4-Dichlorobenzene		mg/L	60	63.24	105	80 - 120	2/15/01
2-Nitrophenol		mg/L	60	63.83	106	80 - 120	2/15/01

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Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
2,4-Dichlorophenol		mg/L	60	63.93	106	80 - 120	2/15/01
Hexachlorobutadiene		mg/L	60	68.19	113	80 - 120	2/15/01
4-Chloro-3-methylphenol		mg/L	60	68.19	113	80 - 120	2/15/01
2,4,6-Trichlorophenol		mg/L	60	66.50	110	80 - 120	2/15/01
Acenaphthene		mg/L	60	63.05	105	80 - 120	2/15/01
Diphenylamine		mg/L	60	62.49	104	80 - 120	2/15/01
Pentachlorophenol		mg/L	60	69.38	115	80 - 120	2/15/01
Fluoranthene		mg/L	60	65.62	109	80 - 120	2/15/01
Di-n-octylphthalate		mg/L	60	54.68	91	80 - 120	2/15/01
Benzo(a)pyrene		mg/L	60	62.20	103	80 - 120	2/15/01

Explosives Results and Quality Control

TRACEANALYSIS, INC.

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Analytical and Quality Control Report

Karen Costa
Mevatec
P.O. Box 399 Bldg. 126
WSMR, NM 88002

Report Date: March 16, 2001

Order ID Number: A01020724

Project Number: 700 A20
Project Name: HELSTF Landfill (Construction)
Project Location: N/A

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace-Analysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
164541	3839-HMW33-0201-QC	Water	2/6/01	12:15	2/7/01
164543	3839-HMW33-0201	Water	2/6/01	12:15	2/7/01
164655	3839-HMW35-0201	Water	2/7/01	15:00	2/7/01
164657	3839-HMW29-0201	Water	2/7/01	12:15	2/7/01
164753	3839-HMW34-0201	Water	2/8/01	13:30	2/8/01
164755	3839-HMW32-0201	Water	2/8/01	14:20	2/8/01

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 11 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Michael T. Abel
Dr. Blair Leftwich, Director

Analytical Report

Sample: 164541 - 3839-HMW33-0201-QC

Analysis:	8330	Analytical Method:	8330-C18	QC Batch:	QC09080	Date Analyzed:	2/15/01
Analyst:	RC	Preparation Method:	3535A	Prep Batch:	PB07816	Date Prepared:	2/12/01

Param	Flag	Result	Units	Dilution	RDL
HMX		<0.50	µg/L	1	0.50
RDX		<0.50	µg/L	1	0.50
1,3,5-trinitrobenzene		<0.50	µg/L	1	0.50
1,3-dinitrobenzene		<0.50	µg/L	1	0.50
tetryl		<0.50	µg/L	1	0.50
Nitrobenzene		<0.50	µg/L	1	0.50
TNT		<0.50	µg/L	1	0.50
4-amino-DNT		<0.50	µg/L	1	0.50
2-amino-DNT		<0.50	µg/L	1	0.50
2,6-DNT		<0.50	µg/L	1	0.50
2,4-DNT		<0.50	µg/L	1	0.50
2-NT		<0.50	µg/L	1	0.50
4-NT		<0.50	µg/L	1	0.50
3-NT		<0.50	µg/L	1	0.50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
1,2-dinitrobenzene		407	µg/L	1	500	81	27 - 143

Sample: 164543 - 3839-HMW33-0201

Analysis:	8330	Analytical Method:	8330-C18	QC Batch:	QC09080	Date Analyzed:	2/15/01
Analyst:	RC	Preparation Method:	3535A	Prep Batch:	PB07816	Date Prepared:	2/12/01

Param	Flag	Result	Units	Dilution	RDL
HMX		<0.50	µg/L	1	0.50
RDX		<0.50	µg/L	1	0.50
1,3,5-trinitrobenzene		<0.50	µg/L	1	0.50
1,3-dinitrobenzene		<0.50	µg/L	1	0.50
tetryl		<0.50	µg/L	1	0.50
Nitrobenzene		<0.50	µg/L	1	0.50
TNT		<0.50	µg/L	1	0.50
4-amino-DNT		<0.50	µg/L	1	0.50
2-amino-DNT		<0.50	µg/L	1	0.50
2,6-DNT		<0.50	µg/L	1	0.50
2,4-DNT		<0.50	µg/L	1	0.50
2-NT		<0.50	µg/L	1	0.50
4-NT		<0.50	µg/L	1	0.50
3-NT		<0.50	µg/L	1	0.50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
1,2-dinitrobenzene		437	µg/L	1	500	87	27 - 143

Sample: 164655 - 3839-HMW35-0201

Analysis:	8330	Analytical Method:	8330-C18	QC Batch:	QC09080	Date Analyzed:	2/15/01
Analyst:	RC	Preparation Method:	3535A	Prep Batch:	PB07816	Date Prepared:	2/12/01

Param	Flag	Result	Units	Dilution	RDL
HMX		<0.50	µg/L	1	0.50
RDX		<0.50	µg/L	1	0.50
1,3,5-trinitrobenzene		<0.50	µg/L	1	0.50
1,3-dinitrobenzene		<0.50	µg/L	1	0.50
tetryl		<0.50	µg/L	1	0.50
Nitrobenzene		<0.50	µg/L	1	0.50
TNT		<0.50	µg/L	1	0.50
4-amino-DNT		<0.50	µg/L	1	0.50
2-amino-DNT		<0.50	µg/L	1	0.50
2,6-DNT		<0.50	µg/L	1	0.50
2,4-DNT		<0.50	µg/L	1	0.50
2-NT		<0.50	µg/L	1	0.50
4-NT		<0.50	µg/L	1	0.50
3-NT		<0.50	µg/L	1	0.50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
1,2-dinitrobenzene		377	µg/L	1	500	75	27 - 143

Sample: 164657 - 3839-HMW29-0201

Analysis:	8330	Analytical Method:	8330-C18	QC Batch:	QC09080	Date Analyzed:	2/15/01
Analyst:	RC	Preparation Method:	3535A	Prep Batch:	PB07816	Date Prepared:	2/12/01

Param	Flag	Result	Units	Dilution	RDL
HMX		<0.50	µg/L	1	0.50
RDX		<0.50	µg/L	1	0.50
1,3,5-trinitrobenzene		<0.50	µg/L	1	0.50
1,3-dinitrobenzene		<0.50	µg/L	1	0.50
tetryl		<0.50	µg/L	1	0.50
Nitrobenzene		<0.50	µg/L	1	0.50
TNT		<0.50	µg/L	1	0.50
4-amino-DNT		<0.50	µg/L	1	0.50
2-amino-DNT		<0.50	µg/L	1	0.50
2,6-DNT		<0.50	µg/L	1	0.50
2,4-DNT		<0.50	µg/L	1	0.50
2-NT		<0.50	µg/L	1	0.50
4-NT		<0.50	µg/L	1	0.50
3-NT		<0.50	µg/L	1	0.50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
1,2-dinitrobenzene		478	µg/L	1	500	95	27 - 143

Sample: 164753 - 3839-HMW34-0201

Analysis:	8330	Analytical Method:	8330-C18	QC Batch:	QC09355	Date Analyzed:	2/26/01
Analyst:	JU	Preparation Method:	3535A	Prep Batch:	PB08037	Date Prepared:	2/15/01

Param	Flag	Result	Units	Dilution	RDL
HMX		<0.50	µg/L	1	0.50
RDX		<0.50	µg/L	1	0.50
1,3,5-trinitrobenzene		<0.50	µg/L	1	0.50
1,3-dinitrobenzene		<0.50	µg/L	1	0.50
tetryl		<0.50	µg/L	1	0.50
Nitrobenzene		<0.50	µg/L	1	0.50
TNT		<0.50	µg/L	1	0.50
4-amino-DNT		<0.50	µg/L	1	0.50
2-amino-DNT		<0.50	µg/L	1	0.50
2,6-DNT		<0.50	µg/L	1	0.50
2,4-DNT		<0.50	µg/L	1	0.50
2-NT		<0.50	µg/L	1	0.50
4-NT		<0.50	µg/L	1	0.50
3-NT		<0.50	µg/L	1	0.50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
1,2-dinitrobenzene		476	µg/L	1	500	95	27 - 143

Sample: 164755 - 3839-HMW32-0201

Analysis: 8330 | Analytical Method: 8330-C18 | QC Batch: QC09355 | Date Analyzed: 2/26/01
Analyst: JU | Preparation Method: 3535A | Prep Batch: PB08037 | Date Prepared: 2/15/01

Param	Flag	Result	Units	Dilution	RDL
HMX		<0.50	µg/L	1	0.50
RDX		<0.50	µg/L	1	0.50
1,3,5-trinitrobenzene		<0.50	µg/L	1	0.50
1,3-dinitrobenzene		<0.50	µg/L	1	0.50
tetryl		<0.50	µg/L	1	0.50
Nitrobenzene		<0.50	µg/L	1	0.50
TNT		<0.50	µg/L	1	0.50
4-amino-DNT		<0.50	µg/L	1	0.50
2-amino-DNT		<0.50	µg/L	1	0.50
2,6-DNT		<0.50	µg/L	1	0.50
2,4-DNT		<0.50	µg/L	1	0.50
2-NT		<0.50	µg/L	1	0.50
4-NT		<0.50	µg/L	1	0.50
3-NT		<0.50	µg/L	1	0.50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
1,2-dinitrobenzene		377	µg/L	1	500	75	27 - 143

Quality Control Report
Method Blank

Method Blank

QCBatch: QC09080

Param	Flag	Results	Units	Reporting Limit
HMX		<0.50	µg/L	0.50
RDX		<0.50	µg/L	0.50
1,3,5-trinitrobenzene		<0.50	µg/L	0.50
1,3-dinitrobenzene		<0.50	µg/L	0.50
tetryl		<0.50	µg/L	0.50
Nitrobenzene		<0.50	µg/L	0.50
TNT		<0.50	µg/L	0.50
4-amino-DNT / 2-amino-DNT		<0.50	µg/L	0.50
2,6-DNT / 2,4-DNT		<0.50	µg/L	0.50
2-NT		<0.50	µg/L	0.50
4-NT		<0.50	µg/L	0.50
3-NT		<0.50	µg/L	0.50

Surrogate	Flag	Result	Units	Spike Amount	Percent Recovery	Recovery Limit
1,2-dinitrobenzene		467	µg/L	500	93	27 - 143

Method Blank

QCBatch: QC09355

Param	Flag	Results	Units	Reporting Limit
HMX		<0.50	µg/L	0.50
RDX		<0.50	µg/L	0.50
1,3,5-trinitrobenzene		<0.50	µg/L	0.50
1,3-dinitrobenzene		<0.50	µg/L	0.50
tetryl		<0.50	µg/L	0.50
Nitrobenzene		<0.50	µg/L	0.50
TNT		<0.50	µg/L	0.50
4-amino-DNT / 2-amino-DNT		<0.50	µg/L	0.50
2,6-DNT / 2,4-DNT		<0.50	µg/L	0.50
2-NT		<0.50	µg/L	0.50
4-NT		<0.50	µg/L	0.50
3-NT		<0.50	µg/L	0.50

Surrogate	Flag	Result	Units	Spike Amount	Percent Recovery	Recovery Limit
1,2-dinitrobenzene		613.698	µg/L	500	122	27 - 143

Quality Control Report
Lab Control Spikes and Duplicate Spikes

LCS QC Batch: QC09080

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
HMX		421	µg/L	1	500	<0.50	84		0 - 133	20
RDX		490	µg/L	1	500	<0.50	98		0 - 112	20
1,3,5-trinitrobenzene		667	µg/L	1	500	<0.50	133		0 - 185	20
1,3-dinitrobenzene		550	µg/L	1	500	<0.50	110		19 - 141	20
tetryl		589	µg/L	1	500	<0.50	117		15 - 161	20
Nitrobenzene		558	µg/L	1	500	<0.50	111		6 - 149	20
TNT		573	µg/L	1	500	<0.50	114		52 - 132	20
4-amino-DNT / 2-amino-DNT		542	µg/L	1	500	<0.50	108		44 - 133	20
2,6-DNT / 2,4-DNT		563	µg/L	1	500	<0.50	112		29 - 146	20
2-NT		560	µg/L	1	500	<0.50	112		48 - 139	20
4-NT		554	µg/L	1	500	<0.50	110		46 - 142	20
3-NT		586	µg/L	1	500	<0.50	117		46 - 144	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
1,2-dinitrobenzene		524	µg/L	1	500	104	27 - 143

LCSD QC Batch: QC09080

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
HMX		407	µg/L	1	500	<0.50	81	3	0 - 133	20
RDX		424	µg/L	1	500	<0.50	84	14	0 - 112	20
1,3,5-trinitrobenzene		626	µg/L	1	500	<0.50	125	6	0 - 185	20
1,3-dinitrobenzene		518	µg/L	1	500	<0.50	103	6	20 - 141	20
tetryl		534	µg/L	1	500	<0.50	106	10	15 - 161	20
Nitrobenzene		543	µg/L	1	500	<0.50	108	3	6 - 149	20
TNT		550	µg/L	1	500	<0.50	110	4	51 - 132	20
4-amino-DNT / 2-amino-DNT		516	µg/L	1	500	<0.50	103	5	43 - 133	20
2,6-DNT / 2,4-DNT		546	µg/L	1	500	<0.50	109	3	29 - 146	20
2-NT		543	µg/L	1	500	<0.50	108	3	48 - 139	20
4-NT		561	µg/L	1	500	<0.50	112	1	46 - 142	20
3-NT		548	µg/L	1	500	<0.50	109	7	45 - 144	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
1,2-dinitrobenzene		475	µg/L	1	500	95	27 - 143

LCS QC Batch: QC09355

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
HMX		436.91	µg/L	1	500	<0.50	87		0 - 133	20

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Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
RDX		443.95	µg/L	1	500	<0.50	88		0 - 112	20
1,3,5-trinitrobenzene		606.95	µg/L	1	500	<0.50	121		0 - 185	20
1,3-dinitrobenzene		604.33	µg/L	1	500	<0.50	120		19 - 141	20
tetryl		693.51	µg/L	1	500	<0.50	138		15 - 161	20
Nitrobenzene		602.45	µg/L	1	500	<0.50	120		6 - 149	20
TNT		591.15	µg/L	1	500	<0.50	118		52 - 132	20
4-amino-DNT / 2-amino-DNT		669.8	µg/L	1	500	<0.50	133		44 - 133	20
2,6-DNT / 2,4-DNT		646.37	µg/L	1	500	<0.50	129		29 - 146	20
2-NT		655.08	µg/L	1	500	<0.50	131		48 - 139	20
4-NT		650.07	µg/L	1	500	<0.50	130		46 - 142	20
3-NT		644.55	µg/L	1	500	<0.50	128		46 - 144	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
1,2-dinitrobenzene		694.46	µg/L	1	500	138	27 - 143

LCSD QC Batch: QC09355

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
HMX		449.67	µg/L	1	500	<0.50	89	3	0 - 133	20
RDX		461.21	µg/L	1	500	<0.50	92	4	0 - 112	20
1,3,5-trinitrobenzene		604.77	µg/L	1	500	<0.50	120	0	0 - 185	20
1,3-dinitrobenzene		600.65	µg/L	1	500	<0.50	120	1	20 - 141	20
tetryl		680.89	µg/L	1	500	<0.50	136	2	15 - 161	20
Nitrobenzene		582.53	µg/L	1	500	<0.50	116	3	6 - 149	20
TNT		586.87	µg/L	1	500	<0.50	117	1	51 - 132	20
4-amino-DNT / 2-amino-DNT		644.81	µg/L	1	500	<0.50	128	4	43 - 133	20
2,6-DNT / 2,4-DNT		636.12	µg/L	1	500	<0.50	127	2	29 - 146	20
2-NT		638.33	µg/L	1	500	<0.50	127	2	48 - 139	20
4-NT		620.88	µg/L	1	500	<0.50	124	4	46 - 142	20
3-NT		625.16	µg/L	1	500	<0.50	125	3	45 - 144	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
1,2-dinitrobenzene		662.11	µg/L	1	500	132	27 - 143

Quality Control Report
Matrix Spikes and Duplicate Spikes

MS QC Batch: QC09080

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
HMX		457	µg/L	1	500	<0.50	91		0 - 133	20
RDX		463	µg/L	1	500	<0.50	92		0 - 112	20
1,3,5-trinitrobenzene		502	µg/L	1	500	<0.50	100		0 - 185	20
1,3-dinitrobenzene		541	µg/L	1	500	<0.50	108		19 - 141	20
tetryl		554	µg/L	1	500	<0.50	110		15 - 161	20
Nitrobenzene		536	µg/L	1	500	<0.50	107		6 - 149	20
TNT		572	µg/L	1	500	<0.50	114		52 - 132	20
4-amino-DNT / 2-amino-DNT		538	µg/L	1	500	<0.50	107		44 - 133	20
2,6-DNT / 2,4-DNT		538	µg/L	1	500	<0.50	107		29 - 146	20
2-NT		556	µg/L	1	500	<0.50	111		48 - 139	20
4-NT		549	µg/L	1	500	<0.50	109		46 - 142	20
3-NT		533	µg/L	1	500	<0.50	106		46 - 144	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
1,2-dinitrobenzene		654	µg/L	1	500	130	27 - 143

MSD

QC Batch: QC09080

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
HMX		378	µg/L	1	500	<0.50	75	19	0 - 133	20
RDX		397	µg/L	1	500	<0.50	79	15	0 - 112	20
1,3,5-trinitrobenzene		450	µg/L	1	500	<0.50	90	11	0 - 185	20
1,3-dinitrobenzene		488	µg/L	1	500	<0.50	97	10	19 - 141	20
tetryl		496	µg/L	1	500	<0.50	99	11	15 - 161	20
Nitrobenzene		502	µg/L	1	500	<0.50	100	6	6 - 149	20
TNT		500	µg/L	1	500	<0.50	100	13	52 - 132	20
4-amino-DNT / 2-amino-DNT		487	µg/L	1	500	<0.50	97	10	44 - 133	20
2,6-DNT / 2,4-DNT		495	µg/L	1	500	<0.50	99	8	29 - 146	20
2-NT		499	µg/L	1	500	<0.50	99	11	48 - 139	20
4-NT		506	µg/L	1	500	<0.50	101	8	46 - 142	20
3-NT		512	µg/L	1	500	<0.50	102	4	45 - 144	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
1,2-dinitrobenzene		573	µg/L	1	500	114	27 - 143

MS

QC Batch: QC09355

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
HMX		172.67	µg/L	1	500	<0.5	34		0 - 133	20
RDX		184.41	µg/L	1	500	<0.5	36		0 - 112	20
1,3.5-trinitrobenzene		401.19	µg/L	1	500	<0.5	80		0 - 185	20

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Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
1,3-dinitrobenzene		330.38	µg/L	1	500	<0.5	66		19 - 141	20
tetryl		368.1	µg/L	1	500	<0.5	73		15 - 161	20
Nitrobenzene		332.68	µg/L	1	500	<0.5	66		6 - 149	20
TNT		340.4	µg/L	1	500	<0.5	68		52 - 132	20
4-amino-DNT / 2-amino-DNT		381.47	µg/L	1	500	<0.5	76		44 - 133	20
2,6-DNT / 2,4-DNT		398.77	µg/L	1	500	<0.5	79		29 - 146	20
2-NT		375.16	µg/L	1	500	<0.5	75		48 - 139	20
4-NT		396.72	µg/L	1	500	<0.5	79		46 - 142	20
3-NT		384.08	µg/L	1	500	<0.5	76		46 - 144	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
1,2-dinitrobenzene		315.2	µg/L	1	500	63	27 - 143

MSD

QC Batch: QC09355

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
HMX		154.25	µg/L	1	500	<0.5	30	11	0 - 133	20
RDX		196.04	µg/L	1	500	<0.5	39	6	0 - 112	20
1,3,5-trinitrobenzene		335.26	µg/L	1	500	<0.5	67	18	0 - 185	20
1,3-dinitrobenzene		283.55	µg/L	1	500	<0.5	56	15	19 - 141	20
tetryl		318.37	µg/L	1	500	<0.5	63	14	15 - 161	20
Nitrobenzene		281.40	µg/L	1	500	<0.5	56	17	6 - 149	20
TNT		285.21	µg/L	1	500	<0.5	57	18	52 - 132	20
4-amino-DNT / 2-amino-DNT		317.18	µg/L	1	500	<0.5	63	18	44 - 133	20
2,6-DNT / 2,4-DNT		329.39	µg/L	1	500	<0.5	65	19	29 - 146	20
2-NT		336.92	µg/L	1	500	<0.5	67	11	48 - 139	20
4-NT		348.54	µg/L	1	500	<0.5	69	13	46 - 142	20
3-NT		336.92	µg/L	1	500	<0.5	67	13	45 - 144	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
1,2-dinitrobenzene		267.9	µg/L	1	500	53	27 - 143

Quality Control Report
Continuing Calibration Verification Standards

CCV (1)

QC Batch: QC09080

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
HMX		µg/L	500	532	106	85 - 115	2/15/01

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Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
RDX		µg/L	500	538	107	85 - 115	2/15/01
1,3,5-trinitrobenzene		µg/L	500	586	117	85 - 115	2/15/01
1,3-dinitrobenzene		µg/L	500	521	104	85 - 115	2/15/01
tetryl		µg/L	500	435	87	85 - 115	2/15/01
Nitrobenzene		µg/L	500	524	104	85 - 115	2/15/01
TNT		µg/L	500	545	109	85 - 115	2/15/01
4-amino-DNT / 2-amino-DNT		µg/L	500	516	103	85 - 115	2/15/01
2,6-DNT / 2,4-DNT		µg/L	500	524	104	85 - 115	2/15/01
2-NT		µg/L	500	534	106	85 - 115	2/15/01
4-NT		µg/L	500	516	103	85 - 115	2/15/01
3-NT		µg/L	500	521	104	85 - 115	2/15/01
1,2-dinitrobenzene		µg/L	500	470	94	85 - 115	2/15/01

ICV (1)

QC Batch: QC09080

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
HMX		µg/L	500	546	109	85 - 115	2/15/01
RDX		µg/L	500	542	108	85 - 115	2/15/01
1,3,5-trinitrobenzene		µg/L	500	568	113	85 - 115	2/15/01
1,3-dinitrobenzene		µg/L	500	532	106	85 - 115	2/15/01
tetryl		µg/L	500	426	85	85 - 115	2/15/01
Nitrobenzene		µg/L	500	541	108	85 - 115	2/15/01
TNT		µg/L	500	548	109	85 - 115	2/15/01
4-amino-DNT / 2-amino-DNT		µg/L	500	538	107	85 - 115	2/15/01
2,6-DNT / 2,4-DNT		µg/L	500	537	107	85 - 115	2/15/01
2-NT		µg/L	500	545	109	85 - 115	2/15/01
4-NT		µg/L	500	549	109	85 - 115	2/15/01
3-NT		µg/L	500	517	103	85 - 115	2/15/01
1,2-dinitrobenzene		µg/L	500	491	98	85 - 115	2/15/01

CCV (1)

QC Batch: QC09355

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
HMX		µg/L	500	545.87	109	85 - 115	2/26/01
RDX		µg/L	500	488.72	97	85 - 115	2/26/01
1,3,5-trinitrobenzene		µg/L	500	466.3	93	85 - 115	2/26/01
1,3-dinitrobenzene		µg/L	500	493.75	98	85 - 115	2/26/01
tetryl		µg/L	500	435.02	87	85 - 115	2/26/01
Nitrobenzene		µg/L	500	480.12	96	85 - 115	2/26/01
TNT		µg/L	500	453.45	90	85 - 115	2/26/01
4-amino-DNT / 2-amino-DNT		µg/L	500	531.42	106	85 - 115	2/26/01
2,6-DNT / 2,4-DNT		µg/L	500	490.19	98	85 - 115	2/26/01
2-NT		µg/L	500	499.11	99	85 - 115	2/26/01
4-NT		µg/L	500	492.04	98	85 - 115	2/26/01

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Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
3-NT		µg/L	500	484.99	96	85 - 115	2/26/01
1,2-dinitrobenzene		µg/L	500	508.95	101	85 - 115	2/26/01

ICV (1)

QC Batch: QC09355

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
HMX		µg/L	500	533.46	106	85 - 115	2/26/01
RDX		µg/L	500	497.9	99	85 - 115	2/26/01
1,3,5-trinitrobenzene		µg/L	500	484.78	96	85 - 115	2/26/01
1,3-dinitrobenzene		µg/L	500	496.38	99	85 - 115	2/26/01
tetryl		µg/L	500	427.81	85	85 - 115	2/26/01
Nitrobenzene		µg/L	500	464.76	92	85 - 115	2/26/01
TNT		µg/L	500	427.62	85	85 - 115	2/26/01
4-amino-DNT / 2-amino-DNT		µg/L	500	548.25	109	85 - 115	2/26/01
2,6-DNT / 2,4-DNT		µg/L	500	497.25	99	85 - 115	2/26/01
2-NT		µg/L	500	487.68	97	85 - 115	2/26/01
4-NT		µg/L	500	484.66	96	85 - 115	2/26/01
3-NT		µg/L	500	488.06	97	85 - 115	2/26/01
1,2-dinitrobenzene		µg/L	500	506.89	101	85 - 115	2/26/01

Pesticides Results and Quality Control

TRACEANALYSIS, INC.

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Analytical and Quality Control Report

Karen Costa
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P.O. Box 399 Bldg. 126
WSMR, NM 88002

Report Date: March 21, 2001

Order ID Number: A01020724

Project Number: 700 A20
Project Name: HELSTF Landfill (Construction)
Project Location: N/A

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
164541	3839-HMW33-0201-QC	Water	2/6/01	12:15	2/7/01
164543	3839-HMW33-0201	Water	2/6/01	12:15	2/7/01
164655	3839-HMW35-0201	Water	2/7/01	15:00	2/7/01
164657	3839-HMW29-0201	Water	2/7/01	12:15	2/7/01
164753	3839-HMW34-0201	Water	2/8/01	13:30	2/8/01
164755	3839-HMW32-0201	Water	2/8/01	14:20	2/8/01

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

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Michael T. Abel
Dr. Blair Leftwich, Director

Analytical Report

Sample: 164541 - 3839-HMW33-0201-QC

Analysis: Pesticides | Analytical Method: E 8081 | QC Batch: QC09471 | Date Analyzed: 3/1/01
Analyst: SH | Preparation Method: E 3510C | Prep Batch: PB08132 | Date Prepared: 2/13/01

Param	Flag	Result	Units	Dilution	RDL
alpha-BHC		<0.0001	mg/L	1	0.0001
beta-BHC		<0.0001	mg/L	1	0.0001
gamma-BHC (Lindane)		<0.0001	mg/L	1	0.0001
delta-BHC		<0.0001	mg/L	1	0.0001
Heptachlor		<0.0002	mg/L	1	0.0002
Aldrin		<0.0001	mg/L	1	0.0001
Heptachlor Epoxide		<0.0002	mg/L	1	0.0002
gamma-Chlordane		<0.0001	mg/L	1	0.0001
Endosulfan I		<0.0001	mg/L	1	0.0001
alpha-Chlordane		<0.0001	mg/L	1	0.0001
Dieldrin		<0.0001	mg/L	1	0.0001
P,P-DDE		<0.0001	mg/L	1	0.0001
Endrin		<0.0005	mg/L	1	0.0005
Endosulfan II		<0.0001	mg/L	1	0.0001
Endrin aldehyde		<0.0005	mg/L	1	0.0005
P,P-DDD		<0.0002	mg/L	1	0.0002
Endosulfan sulfate		<0.0005	mg/L	1	0.0005
p,p-DDT		<0.0005	mg/L	1	0.0005
Endrin Ketone		<0.001	mg/L	1	0.001
Methoxychlor		<0.005	mg/L	1	0.005
Toxaphene		<0.0025	mg/L	1	0.0025

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2,4,5,6-Tetrachloro-m-xylene		0.00042	mg/L	1	0.0005	84	34 - 154
deca chlorobiphenyl		0.00043	mg/L	1	0.0005	86	1 - 92

Sample: 164543 - 3839-HMW33-0201

Analysis: Pesticides | Analytical Method: E 8081 | QC Batch: QC09471 | Date Analyzed: 3/1/01
Analyst: SH | Preparation Method: E 3510C | Prep Batch: PB08132 | Date Prepared: 2/13/01

Param	Flag	Result	Units	Dilution	RDL
alpha-BHC		<0.0001	mg/L	1	0.0001
beta-BHC		<0.0001	mg/L	1	0.0001
gamma-BHC (Lindane)		<0.0001	mg/L	1	0.0001
delta-BHC		<0.0001	mg/L	1	0.0001
Heptachlor		<0.0002	mg/L	1	0.0002
Aldrin		<0.0001	mg/L	1	0.0001
Heptachlor Epoxide		<0.0002	mg/L	1	0.0002
gamma-Chlordane		<0.0001	mg/L	1	0.0001
Endosulfan I		<0.0001	mg/L	1	0.0001
alpha-Chlordane		<0.0001	mg/L	1	0.0001
Dieldrin		<0.0001	mg/L	1	0.0001
P,P-DDE		<0.0001	mg/L	1	0.0001
Endrin		<0.0005	mg/L	1	0.0005

Continued ...

... *Continued* Sample: 164543 Analysis: Pesticides

Param	Flag	Result	Units	Dilution	RDL
Endosulfan II		<0.0001	mg/L	1	0.0001
Endrin aldehyde		<0.0005	mg/L	1	0.0005
P,P-DDD		<0.0002	mg/L	1	0.0002
Endosulfan sulfate		<0.0005	mg/L	1	0.0005
p,p-DDT		<0.0005	mg/L	1	0.0005
Endrin Ketone		<0.001	mg/L	1	0.001
Methoxychlor		<0.001	mg/L	1	0.005
Toxaphene		<0.0025	mg/L	1	0.0025

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2,4,5,6-Tetrachloro-m-xylene		0.00050	mg/L	1	0.0005	100	34 - 154
deca chlorobiphenyl		0.00044	mg/L	1	0.0005	88	1 - 92

Sample: 164655 - 3839-HMW35-0201

Analysis: Pesticides | Analytical Method: E 8081 | QC Batch: QC09471 | Date Analyzed: 3/1/01
Analyst: SH | Preparation Method: E 3510C | Prep Batch: PB08132 | Date Prepared: 2/13/01

Param	Flag	Result	Units	Dilution	RDL
alpha-BHC		<0.0001	mg/L	1	0.0001
beta-BHC		<0.0001	mg/L	1	0.0001
gamma-BHC (Lindane)		<0.0001	mg/L	1	0.0001
delta-BHC		<0.0001	mg/L	1	0.0001
Heptachlor		<0.0002	mg/L	1	0.0002
Aldrin		<0.0001	mg/L	1	0.0001
Heptachlor Epoxide		<0.0002	mg/L	1	0.0002
gamma-Chlordane		<0.0001	mg/L	1	0.0001
Endosulfan I		<0.0001	mg/L	1	0.0001
alpha-Chlordane		<0.0001	mg/L	1	0.0001
Dieldrin		<0.0001	mg/L	1	0.0001
P,P-DDE		<0.0001	mg/L	1	0.0001
Endrin		<0.0005	mg/L	1	0.0005
Endosulfan II		<0.0001	mg/L	1	0.0001
Endrin aldehyde		<0.0005	mg/L	1	0.0005
P,P-DDD		<0.0002	mg/L	1	0.0002
Endosulfan sulfate		<0.0005	mg/L	1	0.0005
p,p-DDT		<0.0005	mg/L	1	0.0005
Endrin Ketone		<0.001	mg/L	1	0.001
Methoxychlor		<0.005	mg/L	1	0.005
Toxaphene		<0.0025	mg/L	1	0.0025
Test Comments		<0.0001	mg/L	1	0.0001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2,4,5,6-Tetrachloro-m-xylene		0.00043	mg/L	1	0.0005	86	34 - 154
deca chlorobiphenyl	[1]	0.00048	mg/L	1	0.0005	96	1 - 92

[1] Surrogate out of control limits.

Sample: 164657 - 3839-HMW29-0201

Analysis:	Pesticides	Analytical Method:	E 8081	QC Batch:	QC09471	Date Analyzed:	3/1/01
Analyst:	SH	Preparation Method:	E 3510C	Prep Batch:	PB08132	Date Prepared:	2/13/01

Param	Flag	Result	Units	Dilution	RDL
alpha-BHC		<0.0001	mg/L	1	0.0001
beta-BHC		<0.0001	mg/L	1	0.0001
gamma-BHC (Lindane)		<0.0001	mg/L	1	0.0001
delta-BHC		<0.0001	mg/L	1	0.0001
Heptachlor		<0.0002	mg/L	1	0.0002
Aldrin		<0.0001	mg/L	1	0.0001
Heptachlor Epoxide		<0.0002	mg/L	1	0.0002
gamma-Chlordane		<0.0001	mg/L	1	0.0001
Endosulfan I		<0.0001	mg/L	1	0.0001
alpha-Chlordane		<0.0001	mg/L	1	0.0001
Dieldrin		<0.0001	mg/L	1	0.0001
P,P-DDE		<0.0001	mg/L	1	0.0001
Endrin		<0.0005	mg/L	1	0.0005
Endosulfan II		<0.0001	mg/L	1	0.0001
Endrin aldehyde		<0.0005	mg/L	1	0.0005
P,P-DDD		<0.0002	mg/L	1	0.0002
Endosulfan sulfate		<0.0005	mg/L	1	0.0005
p,p-DDT		<0.0005	mg/L	1	0.0005
Endrin Ketone		<0.001	mg/L	1	0.001
Methoxychlor		<0.005	mg/L	1	0.005
Toxaphene		<0.0025	mg/L	1	0.0025

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2,4,5,6-Tetrachloro-m-xylene		0.00045	mg/L	1	0.0005	90	34 - 154
deca chlorobiphenyl		0.00046	mg/L	1	0.0005	92	1 - 92

Sample: 164753 - 3839-HMW34-0201

Analysis:	Pesticides	Analytical Method:	E 8081	QC Batch:	QC09471	Date Analyzed:	3/1/01
Analyst:	SH	Preparation Method:	E 3510C	Prep Batch:	PB08132	Date Prepared:	2/13/01

Param	Flag	Result	Units	Dilution	RDL
alpha-BHC		<0.0001	mg/L	1	0.0001
beta-BHC		<0.0001	mg/L	1	0.0001
gamma-BHC (Lindane)		<0.0001	mg/L	1	0.0001
delta-BHC		<0.0001	mg/L	1	0.0001
Heptachlor		<0.0002	mg/L	1	0.0002
Aldrin		<0.0001	mg/L	1	0.0001
Heptachlor Epoxide		<0.0002	mg/L	1	0.0002
gamma-Chlordane		<0.0001	mg/L	1	0.0001
Endosulfan I		<0.0001	mg/L	1	0.0001
alpha-Chlordane		<0.0001	mg/L	1	0.0001
Dieldrin		<0.0001	mg/L	1	0.0001
P,P-DDE		<0.0001	mg/L	1	0.0001
Endrin		<0.0005	mg/L	1	0.0005
Endosulfan II		<0.0001	mg/L	1	0.0001
Endrin aldehyde		<0.0005	mg/L	1	0.0005
P,P-DDD		<0.0002	mg/L	1	0.0002

Continued ...

... *Continued* Sample: 164753 Analysis: Pesticides

Param	Flag	Result	Units	Dilution	RDL
Endosulfan sulfate		<0.0005	mg/L	1	0.0005
p,p-DDT		<0.0005	mg/L	1	0.0005
Endrin Ketone		<0.001	mg/L	1	0.001
Methoxychlor		<0.005	mg/L	1	0.005
Toxaphene		<0.0025	mg/L	1	0.0025
Test Comments		<0.0001	mg/L	1	0.0001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2,4,5,6-Tetrachloro-m-xylene	[2]	0.00062	mg/L	1	0.0005	124	34 - 154
deca chlorobiphenyl	[3]	0.0008	mg/L	1	0.0005	160	1 - 92

Sample: 164755 - 3839-HMW32-0201

Analysis:	Pesticides	Analytical Method:	E 8081	QC Batch:	QC09471	Date Analyzed:	3/1/01
Analyst:	SH	Preparation Method:	E 3510C	Prep Batch:	PB08132	Date Prepared:	2/13/01

Param	Flag	Result	Units	Dilution	RDL
alpha-BHC		<0.0001	mg/L	1	0.0001
beta-BHC		<0.0001	mg/L	1	0.0001
gamma-BHC (Lindane)		<0.0001	mg/L	1	0.0001
delta-BHC		<0.0001	mg/L	1	0.0001
Heptachlor		<0.0002	mg/L	1	0.0002
Aldrin		<0.0001	mg/L	1	0.0001
Heptachlor Epoxide		<0.0002	mg/L	1	0.0002
gamma-Chlordane		<0.0001	mg/L	1	0.0001
Endosulfan I		<0.0001	mg/L	1	0.0001
alpha-Chlordane		<0.0001	mg/L	1	0.0001
Dieldrin		<0.0001	mg/L	1	0.0001
P,P-DDE		<0.0001	mg/L	1	0.0001
Endrin		<0.0005	mg/L	1	0.0005
Endosulfan II		<0.0001	mg/L	1	0.0001
Endrin aldehyde		<0.0005	mg/L	1	0.0005
P,P-DDD		<0.0002	mg/L	1	0.0002
Endosulfan sulfate		<0.0005	mg/L	1	0.0005
p,p-DDT		<0.0005	mg/L	1	0.0005
Endrin Ketone		<0.001	mg/L	1	0.001
Methoxychlor		<0.005	mg/L	1	0.005
Toxaphene		<0.0025	mg/L	1	0.0025

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2,4,5,6-Tetrachloro-m-xylene		0.0004	mg/L	1	0.0005	80	34 - 154
deca chlorobiphenyl	[4]	0.00057	mg/L	1	0.0005	114	1 - 92

[2]Surrogate out of control limits.
[3]Surrogate out of control limits.
[4]Surrogate out of control limits.

Quality Control Report
Method Blank

Method Blank

QCBatch: QC09471

Param	Flag	Results	Units	Reporting Limit
alpha-BHC		<0.0001	mg/L	0.0001
gamma-BHC (Lindane)		<0.0001	mg/L	0.0001
beta-BHC		<0.0001	mg/L	0.0001
delta-BHC		<0.0001	mg/L	0.0001
Heptachlor		<0.0002	mg/L	0.0002
Aldrin		<0.0001	mg/L	0.0001
Heptachlor Epoxide		<0.0002	mg/L	0.0002
gamma-Chlordane		<0.0001	mg/L	0.0001
alpha-Chlordane		<0.0001	mg/L	0.0001
Endosulfan I		<0.0001	mg/L	0.0001
P,P-DDE		<0.0001	mg/L	0.0001
Dieldrin		<0.0001	mg/L	0.0001
Endrin		<0.0005	mg/L	0.0005
P,P-DDD		<0.0002	mg/L	0.0002
Endosulfan II		<0.0001	mg/L	0.0001
p,p-DDT		<0.0005	mg/L	0.0005
Endrin aldehyde		<0.0005	mg/L	0.0005
Endosulfan sulfate		<0.0005	mg/L	0.0005
Methoxychlor		<0.005	mg/L	0.005
Endrin Ketone		<0.001	mg/L	0.001
Toxaphene		<0.0025	mg/L	0.0025

Surrogate	Flag	Result	Units	Spike Amount	Percent Recovery	Recovery Limit
2,4,5,6-Tetrachloro-m-xylene		0.00029	mg/L	0.0005	58	34 - 154
deca chlorobiphenyl		0.00038	mg/L	0.0005	76	1 - 92

Quality Control Report
Lab Control Spikes and Duplicate Spikes

LCS

QC Batch: QC09471

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
alpha-BHC		0.00044	mg/L	1	0.0005	<0.0001	88		27 - 147	20
gamma-BHC (Lindane)		0.00044	mg/L	1	0.0005	<0.0001	88		32 - 132	20
beta-BHC		0.00045	mg/L	1	0.0005	<0.0001	90		23 - 140	20
delta-BHC	[5]	<0.0001	mg/L	1	0.0005	<0.0001	0		25 - 160	20
Heptachlor		0.00042	mg/L	1	0.0005	<0.0002	84		24 - 146	20
Aldrin		0.00043	mg/L	1	0.0005	<0.0001	86		15 - 137	20

Continued ...

[5] Delta-BHC dropped out of solution. MS/MSD shows process is in control.

... *Continued*

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Heptachlor Epoxide		0.00046	mg/L	1	0.0005	<0.0002	92		31 - 140	20
gamma-Chlordane		0.00044	mg/L	1	0.0005	<0.0001	88		15 - 150	20
alpha-Chlordane		0.00048	mg/L	1	0.0005	<0.0001	96		12 - 141	20
Endosulfan I		0.00045	mg/L	1	0.0005	<0.0001	90		1 - 146	20
P,P-DDE		0.00050	mg/L	1	0.0005	<0.0001	100		12 - 144	20
Dieldrin		0.00045	mg/L	1	0.0005	<0.0001	90		13 - 134	20
Endrin		0.00048	mg/L	1	0.0005	<0.0005	96		20 - 164	20
P,P-DDD		0.00048	mg/L	1	0.0005	<0.0002	96		18 - 147	20
Endosulfan II		0.00046	mg/L	1	0.0005	<0.0001	92		11 - 152	20
p,p-DDT		0.00048	mg/L	1	0.0005	<0.0005	96		29 - 159	20
Endrin aldehyde		0.00046	mg/L	1	0.0005	<0.0005	92		11 - 165	20
Endosulfan sulfate		0.00049	mg/L	1	0.0005	<0.0005	98		12 - 164	20
Methoxychlor		0.00053	mg/L	1	0.0005	<0.005	106		1 - 235	20
Endrin Ketone		0.00050	mg/L	1	0.0005	<0.001	100		16 - 135	20
Toxaphene		0.007	mg/L	1	0.01	<0.0025	70		-	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
2,4,5,6-Tetrachloro-m-xylene		0.00038	mg/L	1	0.0005	76	34 - 154
deca chlorobiphenyl		0.00031	mg/L	1	0.0005	62	1 - 92

LCSD

QC Batch: QC09471

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
alpha-BHC		0.00045	mg/L	1	0.0005	<0.0001	90	2	27 - 147	20
gamma-BHC (Lindane)		0.00046	mg/L	1	0.0005	<0.0001	92	4	32 - 132	20
beta-BHC		0.00049	mg/L	1	0.0005	<0.0001	98	8	23 - 140	20
delta-BHC	[6]	<0.0001	mg/L	1	0.0005	<0.0001	0	6	25 - 160	20
Heptachlor		0.00043	mg/L	1	0.0005	<0.0002	86	2	24 - 146	20
Aldrin		0.00044	mg/L	1	0.0005	<0.0001	88	2	15 - 137	20
Heptachlor Epoxide		0.00048	mg/L	1	0.0005	<0.0002	9	162	31 - 140	20
gamma-Chlordane		0.00047	mg/L	1	0.0005	<0.0001	94	6	15 - 150	20
alpha-Chlordane		0.00050	mg/L	1	0.0005	<0.0001	100	4	12 - 141	20
Endosulfan I		0.00047	mg/L	1	0.0005	<0.0001	94	4	1 - 146	20
P,P-DDE		0.00052	mg/L	1	0.0005	<0.0001	104	4	12 - 144	20
Dieldrin		0.00049	mg/L	1	0.0005	<0.0001	98	8	13 - 134	20
Endrin		0.00052	mg/L	1	0.0005	<0.0005	104	8	20 - 164	20
P,P-DDD		0.00053	mg/L	1	0.0005	<0.0002	106	10	18 - 147	20
Endosulfan II		0.00049	mg/L	1	0.0005	<0.0001	98	6	11 - 152	20
p,p-DDT		0.00051	mg/L	1	0.0005	<0.0005	102	6	29 - 159	20
Endrin aldehyde		0.00041	mg/L	1	0.0005	<0.0005	82	11	11 - 165	20
Endosulfan sulfate		0.00053	mg/L	1	0.0005	<0.0005	106	8	12 - 164	20
Methoxychlor		0.00054	mg/L	1	0.0005	<0.005	108	2	1 - 235	20
Endrin Ketone		0.00054	mg/L	1	0.0005	<0.001	108	8	16 - 135	20
Toxaphene		0.00740	mg/L	1	0.01	<0.0025	74	180	-	20

[6]Delta-BHC dropped out of solution. MS/MSD shows process is in control.

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
2,4,5,6-Tetrachloro-m-xylene		0.00033	mg/L	1	0.0005	66	34 - 154
deca chlorobiphenyl		0.00038	mg/L	1	0.0005	76	1 - 92

Quality Control Report
Matrix Spikes and Duplicate Spikes

MS

QC Batch: QC09471

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
alpha-BHC		0.00052	mg/L	1	0.0005	<0.0001	104		27 - 147	20
gamma-BHC (Lindane)		0.00051	mg/L	1	0.0005	<0.0001	102		32 - 132	20
beta-BHC		0.00053	mg/L	1	0.0005	<0.0001	106		23 - 140	20
delta-BHC		0.00029	mg/L	1	0.0005	<0.0001	58		25 - 160	20
Heptachlor		0.00043	mg/L	1	0.0005	<0.0002	86		24 - 146	20
Aldrin		0.00045	mg/L	1	0.0005	<0.0001	90		15 - 137	20
Heptachlor Epoxide		0.00052	mg/L	1	0.0005	<0.0002	104		31 - 140	20
gamma-Chlordane		0.00049	mg/L	1	0.0005	<0.0001	98		15 - 150	20
alpha-Chlordane		0.00052	mg/L	1	0.0005	<0.0001	104		12 - 141	20
Endosulfan I		0.00050	mg/L	1	0.0005	<0.0001	100		1 - 146	20
P,P-DDE		0.00053	mg/L	1	0.0005	<0.0001	106		12 - 144	20
Dieldrin		0.00050	mg/L	1	0.0005	<0.0001	100		13 - 134	20
Endrin		0.00056	mg/L	1	0.0005	<0.0005	112		20 - 164	20
P,P-DDD		0.00054	mg/L	1	0.0005	<0.0002	108		18 - 147	20
Endosulfan II		0.00052	mg/L	1	0.0005	<0.0001	104		11 - 152	20
p,p-DDT		0.00054	mg/L	1	0.0005	<0.0005	108		29 - 159	20
Endrin aldehyde		0.00058	mg/L	1	0.0005	<0.0005	116		11 - 165	20
Endosulfan sulfate		0.00047	mg/L	1	0.0005	<0.0005	94		12 - 164	20
Methoxychlor		0.00055	mg/L	1	0.0005	<0.005	110		1 - 235	20
Endrin Ketone		0.00056	mg/L	1	0.0005	<0.001	112		16 - 135	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
2,4,5,6-Tetrachloro-m-xylene		0.00042	mg/L	1	0.0005	84	34 - 154
deca chlorobiphenyl	[7]	0.00050	mg/L	1	0.0005	100	1 - 92

MSD

QC Batch: QC09471

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
alpha-BHC		0.00051	mg/L	1	0.0005	<0.0001	102	2	27 - 147	20
gamma-BHC (Lindane)		0.00051	mg/L	1	0.0005	<0.0001	102	0	32 - 132	20
beta-BHC		0.00053	mg/L	1	0.0005	<0.0001	106	0	23 - 140	20
delta-BHC		0.00030	mg/L	1	0.0005	<0.0001	60	3	25 - 160	20

Continued ...

[7]Surrogate recovery exceeds standard range. Spike analytes all show acceptable recovery and %RPD.

... *Continued*

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Heptachlor		0.00048	mg/L	1	0.0005	<0.0002	96	11	24 - 146	20
Aldrin		0.00050	mg/L	1	0.0005	<0.0001	100	10	15 - 137	20
Heptachlor Epoxide		0.00053	mg/L	1	0.0005	<0.0002	106	2	31 - 140	20
gamma-Chlordane		0.00053	mg/L	1	0.0005	<0.0001	106	8	15 - 150	20
alpha-Chlordane		0.00056	mg/L	1	0.0005	<0.0001	112	7	12 - 141	20
Endosulfan I		0.00053	mg/L	1	0.0005	<0.0001	106	6	1 - 146	20
P,P-DDE		0.00057	mg/L	1	0.0005	<0.0001	114	7	12 - 144	20
Dieldrin		0.00053	mg/L	1	0.0005	<0.0001	106	6	13 - 134	20
Endrin		0.00059	mg/L	1	0.0005	<0.0005	118	5	20 - 164	20
P,P-DDD		0.00057	mg/L	1	0.0005	<0.0002	114	5	18 - 147	20
Endosulfan II		0.00055	mg/L	1	0.0005	<0.0001	110	6	11 - 152	20
p,p-DDT		0.00058	mg/L	1	0.0005	<0.0005	116	7	29 - 159	20
Endrin aldehyde		0.00051	mg/L	1	0.0005	<0.0005	102	13	11 - 165	20
Endosulfan sulfate		0.00052	mg/L	1	0.0005	<0.0005	104	10	12 - 164	20
Methoxychlor		0.00060	mg/L	1	0.0005	<0.005	120	9	1 - 235	20
Endrin Ketone		0.00058	mg/L	1	0.0005	<0.001	116	4	16 - 135	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
2,4,5,6-Tetrachloro-m-xylene		0.00041	mg/L	1	0.0005	82	34 - 154
deca chlorobiphenyl	[8]	0.00058	mg/L	1	0.0005	116	1 - 92

Quality Control Report
Continuing Calibration Verification Standards

CCV (1)

QC Batch: QC09471

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
alpha-BHC		mg/L	0.10	0.1042	104	85 - 115	3/1/01
gamma-BHC (Lindane)		mg/L	0.10	0.1014	101	85 - 115	3/1/01
beta-BHC		mg/L	0.10	0.1036	103	85 - 115	3/1/01
delta-BHC	[9]	mg/L	0.10	0.0499	49	85 - 115	3/1/01
Heptachlor		mg/L	0.10	0.1001	100	85 - 115	3/1/01
Aldrin		mg/L	0.10	0.1081	108	85 - 115	3/1/01
Heptachlor Epoxide		mg/L	0.10	0.1069	106	85 - 115	3/1/01
gamma-Chlordane		mg/L	0.10	0.1059	105	85 - 115	3/1/01
alpha-Chlordane		mg/L	0.10	0.1084	108	85 - 115	3/1/01
Endosulfan I		mg/L	0.10	0.1041	104	85 - 115	3/1/01
P,P-DDE		mg/L	0.10	0.1160	116	85 - 115	3/1/01
Dieldrin		mg/L	0.10	0.1076	107	85 - 115	3/1/01
Endrin		mg/L	0.10	0.1159	115	85 - 115	3/1/01
P,P-DDD		mg/L	0.10	0.1124	112	85 - 115	3/1/01

Continued ...

[8]Surrogate recovery exceeds standard range. Spike analytes all show acceptable recovery and %RPD.
[9]Delta-BHC below standard range. ICV recovery acceptable and all samples were non-detect.

... Continued

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Endosulfan II		mg/L	0.10	0.1070	107	85 - 115	3/1/01
p,p-DDT		mg/L	0.10	0.1082	108	85 - 115	3/1/01
Endrin aldehyde		mg/L	0.10	0.0914	91	85 - 115	3/1/01
Endosulfan sulfate		mg/L	0.10	0.0891	89	85 - 115	3/1/01
Methoxychlor		mg/L	0.10	0.1191	119	85 - 115	3/1/01
Endrin Ketone		mg/L	0.10	0.1127	112	85 - 115	3/1/01
Toxaphene	[10]	mg/L	2	1.307	65	85 - 115	3/1/01

ICV (1)

QC Batch: QC09471

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
alpha-BHC		mg/L	0.10	0.1161	116	85 - 115	3/1/01
gamma-BHC (Lindane)		mg/L	0.10	0.1129	112	85 - 115	3/1/01
beta-BHC		mg/L	0.10	0.1120	112	85 - 115	3/1/01
delta-BHC		mg/L	0.10	0.1164	116	85 - 115	3/1/01
Heptachlor		mg/L	0.10	0.1081	108	85 - 115	3/1/01
Aldrin		mg/L	0.10	0.1147	114	85 - 115	3/1/01
Heptachlor Epoxide		mg/L	0.10	0.1125	112	85 - 115	3/1/01
gamma-Chlordane		mg/L	0.10	0.1096	109	85 - 115	3/1/01
alpha-Chlordane		mg/L	0.10	0.1133	113	85 - 115	3/1/01
Endosulfan I		mg/L	0.10	0.1071	107	85 - 115	3/1/01
P,P-DDE		mg/L	0.10	0.1081	108	85 - 115	3/1/01
Dieldrin		mg/L	0.10	0.1109	110	85 - 115	3/1/01
Endrin		mg/L	0.10	0.1124	112	85 - 115	3/1/01
P,P-DDD		mg/L	0.10	0.1112	111	85 - 115	3/1/01
Endosulfan II		mg/L	0.10	0.1081	108	85 - 115	3/1/01
p,p-DDT		mg/L	0.10	0.1156	115	85 - 115	3/1/01
Endrin aldehyde		mg/L	0.10	0.0911	91	85 - 115	3/1/01
Endosulfan sulfate		mg/L	0.10	0.1182	118	85 - 115	3/1/01
Methoxychlor		mg/L	0.10	0.1091	109	85 - 115	3/1/01
Endrin Ketone		mg/L	0.10	0.1119	111	85 - 115	3/1/01
Toxaphene	[11]	mg/L	2	1.4747	73	85 - 115	3/1/01

[10] Toxaphene recovered low all samples are non-detect.
[11] Toxaphene recovered low all samples are non-detect.

TOC Results and Quality Control

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
155 McCutcheon, Suite H El Paso, Texas 79932 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Karen Costa
Mevatec
P.O. Box 399 Bldg. 126
WSMR, NM 88002

Report Date: March 15, 2001

Order ID Number: A01020724

Project Number: 700 A20
Project Name: HELSTF Landfill (Construction)
Project Location: N/A

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
164541	3839-HMW33-0201-QC	Water	2/6/01	12:15	2/7/01
164543	3839-HMW33-0201	Water	2/6/01	12:15	2/7/01
164655	3839-HMW35-0201	Water	2/7/01	15:00	2/7/01
164657	3839-HMW29-0201	Water	2/7/01	12:15	2/7/01
164753	3839-HMW34-0201	Water	2/8/01	13:30	2/8/01
164755	3839-HMW32-0201	Water	2/8/01	14:20	2/8/01

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 5 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Michael T. Arnold
Dr. Blair Leftwich, Director

Analytical Report

Sample: 164541 - 3839-HMW33-0201-QC

Analysis:	TOC	Analytical Method:	S 415.1	QC Batch:	QC09298	Date Analyzed:	2/22/01
Analyst:	RC	Preparation Method:	N/A	Prep Batch:	PB07995	Date Prepared:	2/22/01

Param	Flag	Result	Units	Dilution	RDL
Total Organic Carbon		4.97	mg/L	1	1

Sample: 164543 - 3839-HMW33-0201

Analysis:	TOC	Analytical Method:	S 415.1	QC Batch:	QC09298	Date Analyzed:	2/22/01
Analyst:	RC	Preparation Method:	N/A	Prep Batch:	PB07995	Date Prepared:	2/22/01

Param	Flag	Result	Units	Dilution	RDL
Total Organic Carbon		5.08	mg/L	1	1

Sample: 164655 - 3839-HMW35-0201

Analysis:	TOC	Analytical Method:	S 415.1	QC Batch:	QC09298	Date Analyzed:	2/22/01
Analyst:	RC	Preparation Method:	N/A	Prep Batch:	PB07995	Date Prepared:	2/22/01

Param	Flag	Result	Units	Dilution	RDL
Total Organic Carbon		1.64	mg/L	1	1

Sample: 164657 - 3839-HMW29-0201

Analysis:	TOC	Analytical Method:	S 415.1	QC Batch:	QC09298	Date Analyzed:	2/22/01
Analyst:	RC	Preparation Method:	N/A	Prep Batch:	PB07995	Date Prepared:	2/22/01

Param	Flag	Result	Units	Dilution	RDL
Total Organic Carbon		5.82	mg/L	1	1

Sample: 164753 - 3839-HMW34-0201

Analysis:	TOC	Analytical Method:	S 415.1	QC Batch:	QC09299	Date Analyzed:	2/22/01
Analyst:	RC	Preparation Method:	N/A	Prep Batch:	PB07996	Date Prepared:	2/22/01

Param	Flag	Result	Units	Dilution	RDL
Total Organic Carbon		2.16	mg/L	1	1

Sample: 164755 - 3839-HMW32-0201

Analysis:	TOC	Analytical Method:	S 415.1	QC Batch:	QC09299	Date Analyzed:	2/22/01
Analyst:	RC	Preparation Method:	N/A	Prep Batch:	PB07996	Date Prepared:	2/22/01

Param	Flag	Result	Units	Dilution	RDL
Total Organic Carbon		1.16	mg/L	1	1

Quality Control Report
Method Blank

Method Blank

QCBatch: QC09298

Param	Flag	Results	Units	Reporting Limit
Total Organic Carbon		<1	mg/L	1

Method Blank

QCBatch: QC09299

Param	Flag	Results	Units	Reporting Limit
Total Organic Carbon		<1	mg/L	1

Quality Control Report
Lab Control Spikes and Duplicate Spikes

LCS

QC Batch: QC09298

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Organic Carbon		5.53	mg/L	1	5	<1	110		85 - 118	20

LCSD

QC Batch: QC09298

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Organic Carbon		5.45	mg/L	1	5	<1	109	1	85 - 118	20

LCS

QC Batch: QC09299

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Organic Carbon		5.28	mg/L	1	5	<1	105		85 - 118	20

LCSD

QC Batch: QC09299

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Organic Carbon		5.26	mg/L	1	5	<1	105	0	85 - 118	20

Quality Control Report
Matrix Spikes and Duplicate Spikes

MS

QC Batch: QC09298

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Organic Carbon		9.34	mg/L	1	5	5.08	85		85 - 118	20

MSD

QC Batch: QC09298

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Organic Carbon		9.35	mg/L	1	5	5.08	85	0	85 - 118	20

MS

QC Batch: QC09299

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Organic Carbon	[1]	6.05	mg/L	1	5	2.16	77		85 - 118	20

MSD

QC Batch: QC09299

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Organic Carbon	[2]	6.12	mg/L	1	5	2.16	79	2	85 - 118	20

Quality Control Report
Continuing Calibration Verification Standards

CCV (1)

QC Batch: QC09298

[1] % Recovery below % Recovery limit due to matrix difficulties. LCS/LCSD shows analysis in control.
[2] % Recovery below % Recovery limit due to matrix difficulties. LCS/LCSD shows analysis in control.

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Organic Carbon	[3]	mg/L	5	5.82	116	85 - 115	2/22/01

ICV (1)

QC Batch: QC09298

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Organic Carbon		mg/L	5	5.54	110	85 - 115	2/22/01

CCV (1)

QC Batch: QC09299

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Organic Carbon		mg/L	5	5.21	104	85 - 115	2/22/01

ICV (1)

QC Batch: QC09299

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Organic Carbon		mg/L	5	5.54	110	85 - 115	2/22/01

[3]CCV demonstrates a biased high result. All samples reorted as estimated concentration.

DRO Results and Quality Control

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
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E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Karen Costa
Mevatec
P.O. Box 399 Bldg. 126
WSMR, NM 88002

Report Date: March 16, 2001

Order ID Number: A01020724

Project Number: 700 A20
Project Name: HELSTF Landfill (Construction)
Project Location: N/A

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace-Analysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
164541	3839-HMW33-0201-QC	Water	2/6/01	12:15	2/7/01
164543	3839-HMW33-0201	Water	2/6/01	12:15	2/7/01
164655	3839-HMW35-0201	Water	2/7/01	15:00	2/7/01
164657	3839-HMW29-0201	Water	2/7/01	12:15	2/7/01
164753	3839-HMW34-0201	Water	2/8/01	13:30	2/8/01
164755	3839-HMW32-0201	Water	2/8/01	14:20	2/8/01

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Michael T. Allen
Dr. Blair Leftwich, Director

Analytical Report

Sample: 164541 - 3839-HMW33-0201-QC

Analysis: TPH DRO | Analytical Method: Mod. 8015B | QC Batch: QC08918 | Date Analyzed: 2/8/01
Analyst: BP | Preparation Method: 3510C - Mod. | Prep Batch: PB07686 | Date Prepared: 2/8/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<5	mg/L	0.10	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		25	mg/L	0.10	25	98	70 - 130

Sample: 164543 - 3839-HMW33-0201

Analysis: TPH DRO | Analytical Method: Mod. 8015B | QC Batch: QC08918 | Date Analyzed: 2/8/01
Analyst: BP | Preparation Method: 3510C - Mod. | Prep Batch: PB07686 | Date Prepared: 2/8/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<5	mg/L	0.10	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		26	mg/L	0.10	25	105	70 - 130

Sample: 164655 - 3839-HMW35-0201

Analysis: TPH DRO | Analytical Method: Mod. 8015B | QC Batch: QC09083 | Date Analyzed: 2/13/01
Analyst: BP | Preparation Method: 3510C - Mod. | Prep Batch: PB07818 | Date Prepared: 2/13/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<5	mg/L	0.10	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		20	mg/L	0.10	25	80	70 - 130

Sample: 164657 - 3839-HMW29-0201

Analysis: TPH DRO | Analytical Method: Mod. 8015B | QC Batch: QC09083 | Date Analyzed: 2/13/01
Analyst: BP | Preparation Method: 3510C - Mod. | Prep Batch: PB07818 | Date Prepared: 2/13/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<5	mg/L	0.10	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		20	mg/L	0.10	25	80	70 - 130

Sample: 164753 - 3839-HMW34-0201

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC09083	Date Analyzed:	2/13/01
Analyst:	BP	Preparation Method:	3510C - Mod.	Prep Batch:	PB07818	Date Prepared:	2/13/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<5	mg/L	0.10	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		18	mg/L	0.10	25	72	70 - 130

Sample: 164755 - 3839-HMW32-0201

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC09083	Date Analyzed:	2/13/01
Analyst:	BP	Preparation Method:	3510C - Mod.	Prep Batch:	PB07818	Date Prepared:	2/13/01

Param	Flag	Result	Units	Dilution	RDL
DRO		<5	mg/L	0.10	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		20	mg/L	0.10	25	80	70 - 130

Quality Control Report
Method Blank

Method Blank

QCBatch: QC08918

Param	Flag	Results	Units	Reporting Limit
DRO		<5	mg/L	50

Surrogate	Flag	Result	Units	Spike Amount	Percent Recovery	Recovery Limit
n-Octane		24	mg/L	25	94	70 - 130

Method Blank

QCBatch: QC09083

Param	Flag	Results	Units	Reporting Limit
DRO		<5	mg/L	50

Surrogate	Flag	Result	Units	Spike Amount	Percent Recovery	Recovery Limit
n-Octane		21	mg/L	25	84	70 - 130

Quality Control Report
Lab Control Spikes and Duplicate Spikes

LCS

QC Batch: QC08918

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
DRO		25	mg/L	0.10	25	<5	100		70 - 130	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
n-Octane		25	mg/L	1	25	100	70 - 130

LCSD

QC Batch: QC08918

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
DRO		23	mg/L	0.10	25	<5	92	8	70 - 130	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
n-Octane		21	mg/L	1	25	84	70 - 130

LCS QC Batch: QC09083

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
DRO		26	mg/L	0.10	25	<5	104		70 - 130	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
n-Octane		23	mg/L	1	25	92	70 - 130

LCSD QC Batch: QC09083

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
DRO		25	mg/L	0.10	25	<5	100	4	70 - 130	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
n-Octane		20	mg/L	1	25	80	70 - 130

Quality Control Report
Continuing Calibration Verification Standards

CCV (1) QC Batch: QC08918

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/L	250	222	88	85 - 115	2/8/01
n-Octane		mg/L	250	240	96	85 - 115	2/8/01

CCV (2) QC Batch: QC08918

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO	[1]	mg/L	250	210	84	85 - 115	2/8/01

Continued ...

[1]CCV out of standard range. Samples did not contain analytes of interest.

... Continued

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
n-Octane	[2]	mg/L	250	211	84	85 - 115	2/8/01

CCV (3)

QC Batch: QC08918

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/L	250	252	100	85 - 115	2/8/01
n-Octane		mg/L	250	227	90	85 - 115	2/8/01

ICV (1)

QC Batch: QC08918

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/L	250	252	100	85 - 115	2/8/01
n-Octane		mg/L	250	233	93	85 - 115	2/8/01

CCV (1)

QC Batch: QC09083

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/L	250	243	97	85 - 115	2/13/01
n-Octane		mg/L	250	222	88	85 - 115	2/13/01

ICV (1)

QC Batch: QC09083

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO	[3]	mg/L	250	188	75	85 - 115	2/13/01
n-Octane	[4]	mg/L	250	203	81	85 - 115	2/13/01

[2]CCV out of standard range. Samples did not contain analytes of interest.
[3]ICV out of control range due to analyst error. Reported samples as non-detect. New recovery limits in place as 85-115.
[4]ICV out of control range due to analyst error. Reported samples as non-detect. New recovery limits in place as 85-115.

GRO Results and Quality Control

TRACEANALYSIS, INC.

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155 McCutcheon, Suite H El Paso, Texas 79932 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Karen Costa
Mevatec
P.O. Box 399 Bldg. 126
WSMR, NM 88002

Report Date: March 16, 2001

Order ID Number: A01020724

Project Number: 700 A20
Project Name: HELSTF Landfill (Construction)
Project Location: N/A

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace-Analysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
164541	3839-HMW33-0201-QC	Water	2/6/01	12:15	2/7/01
164543	3839-HMW33-0201	Water	2/6/01	12:15	2/7/01
164655	3839-HMW35-0201	Water	2/7/01	15:00	2/7/01
164657	3839-HMW29-0201	Water	2/7/01	12:15	2/7/01
164753	3839-HMW34-0201	Water	2/8/01	13:30	2/8/01
164755	3839-HMW32-0201	Water	2/8/01	14:20	2/8/01

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Michael T. Allen
Dr. Blair Leftwich, Director

Analytical Report

Sample: 164541 - 3839-HMW33-0201-QC

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC08973	Date Analyzed:	2/11/01
Analyst:	JW	Preparation Method:	5030	Prep Batch:	PB07731	Date Prepared:	2/11/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<0.500	mg/L	5	0.10

Sample: 164543 - 3839-HMW33-0201

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC08973	Date Analyzed:	2/11/01
Analyst:	JW	Preparation Method:	5030	Prep Batch:	PB07731	Date Prepared:	2/11/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<0.500	mg/L	5	0.10

Sample: 164655 - 3839-HMW35-0201

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC08973	Date Analyzed:	2/11/01
Analyst:	JW	Preparation Method:	5030	Prep Batch:	PB07731	Date Prepared:	2/11/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<0.500	mg/L	5	0.10

Sample: 164657 - 3839-HMW29-0201

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC08973	Date Analyzed:	2/11/01
Analyst:	JW	Preparation Method:	5030	Prep Batch:	PB07731	Date Prepared:	2/11/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<0.500	mg/L	5	0.10

Sample: 164753 - 3839-HMW34-0201

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC09114	Date Analyzed:	2/15/01
Analyst:	JW	Preparation Method:	5030	Prep Batch:	PB07848	Date Prepared:	2/15/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<0.1	mg/L	1	0.10

Sample: 164755 - 3839-HMW32-0201

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC09114	Date Analyzed:	2/15/01
Analyst:	JW	Preparation Method:	5030	Prep Batch:	PB07848	Date Prepared:	2/15/01

Param	Flag	Result	Units	Dilution	RDL
GRO		<0.1	mg/L	1	0.10

Quality Control Report
Method Blank

Method Blank

QCBatch: QC08973

Param	Flag	Results	Units	Reporting Limit
GRO		<0.1	mg/L	0.10

Method Blank

QCBatch: QC09114

Param	Flag	Results	Units	Reporting Limit
GRO		<0.1	mg/L	0.10

Quality Control Report
Lab Control Spikes and Duplicate Spikes

LCS

QC Batch: QC08973

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
GRO		1.01	mg/L	1	1	<0.1	101		70 - 130	20

LCSD

QC Batch: QC08973

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
GRO		1.09	mg/L	1	1	<0.1	109	8	70 - 130	20

LCS

QC Batch: QC09114

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
GRO		0.91	mg/L	1	1	<0.1	91		70 - 130	20

LCSD

QC Batch: QC09114

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
GRO		0.96	mg/L	1	1	<0.1	96	5	70 - 130	20

Quality Control Report
Continuing Calibration Verification Standards

CCV (1)

QC Batch: QC08973

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1	0.942	94	85 - 115	2/11/01

CCV (2)

QC Batch: QC08973

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO	[1]	mg/L	1	0.802	80	85 - 115	2/11/01

ICV (1)

QC Batch: QC08973

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1	1.11	111	85 - 115	2/11/01

CCV (1)

QC Batch: QC09114

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1	0.91	91	85 - 115	2/15/01

ICV (1)

QC Batch: QC09114

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1	1.13	113	85 - 115	2/15/01

[1]CCV out of range. Samples show that no analytes were present.

TDS Results and Quality Control

TRACEANALYSIS, INC.

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Analytical and Quality Control Report

Karen Costa
Mevatec
P.O. Box 399 Bldg. 126
WSMR, NM 88002

Report Date: March 15, 2001

Order ID Number: A01020724

Project Number: 700 A20
Project Name: HELSTF Landfill (Construction)
Project Location: N/A

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace-Analysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
164541	3839-HMW33-0201-QC	Water	2/6/01	12:15	2/7/01
164543	3839-HMW33-0201	Water	2/6/01	12:15	2/7/01
164655	3839-HMW35-0201	Water	2/7/01	15:00	2/7/01
164657	3839-HMW29-0201	Water	2/7/01	12:15	2/7/01
164753	3839-HMW34-0201	Water	2/8/01	13:30	2/8/01
164755	3839-HMW32-0201	Water	2/8/01	14:20	2/8/01

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Michael T. Allen
Dr. Blair Leftwich, Director

Analytical Report

Sample: 164541 - 3839-HMW33-0201-QC

Analysis:	TDS	Analytical Method:	SM 2540C	QC Batch:	QC09127	Date Analyzed:	2/8/01
Analyst:	DG	Preparation Method:	N/A	Prep Batch:	PB07856	Date Prepared:	2/8/01

Param	Flag	Result	Units	Dilution	RDL
Total Dissolved Solids		26000	mg/L	1	50

Sample: 164543 - 3839-HMW33-0201

Analysis:	TDS	Analytical Method:	SM 2540C	QC Batch:	QC09127	Date Analyzed:	2/8/01
Analyst:	DG	Preparation Method:	N/A	Prep Batch:	PB07856	Date Prepared:	2/8/01

Param	Flag	Result	Units	Dilution	RDL
Total Dissolved Solids		25000	mg/L	1	50

Sample: 164655 - 3839-HMW35-0201

Analysis:	TDS	Analytical Method:	SM 2540C	QC Batch:	QC09300	Date Analyzed:	2/14/01
Analyst:	AM	Preparation Method:	N/A	Prep Batch:	PB08006	Date Prepared:	2/14/01

Param	Flag	Result	Units	Dilution	RDL
Total Dissolved Solids		9900	mg/L	1	50

Sample: 164657 - 3839-HMW29-0201

Analysis:	TDS	Analytical Method:	SM 2540C	QC Batch:	QC09300	Date Analyzed:	2/14/01
Analyst:	AM	Preparation Method:	N/A	Prep Batch:	PB08006	Date Prepared:	2/14/01

Param	Flag	Result	Units	Dilution	RDL
Total Dissolved Solids		12000	mg/L	1	50

Sample: 164753 - 3839-HMW34-0201

Analysis:	TDS	Analytical Method:	SM 2540C	QC Batch:	QC09300	Date Analyzed:	2/14/01
Analyst:	AM	Preparation Method:	N/A	Prep Batch:	PB08006	Date Prepared:	2/14/01

Param	Flag	Result	Units	Dilution	RDL
Total Dissolved Solids		12000	mg/L	1	50

Sample: 164755 - 3839-HMW32-0201

Analysis:	TDS	Analytical Method:	SM 2540C	QC Batch:	QC09300	Date Analyzed:	2/14/01
Analyst:	AM	Preparation Method:	N/A	Prep Batch:	PB08006	Date Prepared:	2/14/01

Param	Flag	Result	Units	Dilution	RDL
Total Dissolved Solids		12000	mg/L	1	50

Quality Control Report
Method Blank

Method Blank

QCBatch: QC09127

Param	Flag	Results	Units	Reporting Limit
Total Dissolved Solids		<50	mg/L	50

Method Blank

QCBatch: QC09300

Param	Flag	Results	Units	Reporting Limit
Total Dissolved Solids		<50	mg/L	50

Quality Control Report
Duplicate Samples

Duplicate

QC Batch: QC09127

Param	Flag	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1200	1200	mg/L	1	0	20

Duplicate

QC Batch: QC09300

Param	Flag	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		3800	3800	mg/L	1	0	20

Quality Control Report
Continuing Calibration Verification Standards

ICV (1)

QC Batch: QC09127

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Dissolved Solids		mg/L	1000	996	99	80 - 120	2/8/01

ICV (1)

QC Batch: QC09300

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Dissolved Solids		mg/L	1000	974	97	80 - 120	2/14/01

pH Results and Quality Control

TRACEANALYSIS, INC.

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E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Karen Costa
Mevatec
P.O. Box 399 Bldg. 126
WSMR, NM 88002

Report Date: March 15, 2001

Order ID Number: A01020724

Project Number: 700 A20
Project Name: HELSTF Landfill (Construction)
Project Location: N/A

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace-Analysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
164541	3839-HMW33-0201-QC	Water	2/6/01	12:15	2/7/01
164543	3839-HMW33-0201	Water	2/6/01	12:15	2/7/01
164655	3839-HMW35-0201	Water	2/7/01	15:00	2/7/01
164657	3839-HMW29-0201	Water	2/7/01	12:15	2/7/01
164753	3839-HMW34-0201	Water	2/8/01	13:30	2/8/01
164755	3839-HMW32-0201	Water	2/8/01	14:20	2/8/01

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Michael T. Abel
Dr. Blair Leftwich, Director

Analytical Report

Sample: 164541 - 3839-HMW33-0201-QC

Analysis:	pH	Analytical Method:	SM 4500-H+	QC Batch:	QC09472	Date Analyzed:	2/7/01
Analyst:	LG	Preparation Method:	N/A	Prep Batch:	PB08133	Date Prepared:	2/7/01

Param	Flag	Result	Units	Dilution	RDL
pH		7.62	s.u.	1	1

Sample: 164543 - 3839-HMW33-0201

Analysis:	pH	Analytical Method:	SM 4500-H+	QC Batch:	QC09472	Date Analyzed:	2/7/01
Analyst:	LG	Preparation Method:	N/A	Prep Batch:	PB08133	Date Prepared:	2/7/01

Param	Flag	Result	Units	Dilution	RDL
pH		7.58	s.u.	1	1

Sample: 164655 - 3839-HMW35-0201

Analysis:	pH	Analytical Method:	SM 4500-H+	QC Batch:	QC09472	Date Analyzed:	2/7/01
Analyst:	LG	Preparation Method:	N/A	Prep Batch:	PB08133	Date Prepared:	2/7/01

Param	Flag	Result	Units	Dilution	RDL
pH		7.63	s.u.	1	1

Sample: 164657 - 3839-HMW29-0201

Analysis:	pH	Analytical Method:	SM 4500-H+	QC Batch:	QC09472	Date Analyzed:	2/7/01
Analyst:	LG	Preparation Method:	N/A	Prep Batch:	PB08133	Date Prepared:	2/7/01

Param	Flag	Result	Units	Dilution	RDL
pH		7.38	s.u.	1	1

Sample: 164753 - 3839-HMW34-0201

Analysis:	pH	Analytical Method:	SM 4500-H+	QC Batch:	QC09473	Date Analyzed:	2/9/01
Analyst:	LG	Preparation Method:	N/A	Prep Batch:	PB08134	Date Prepared:	2/9/01

Param	Flag	Result	Units	Dilution	RDL
pH		7.50	s.u.	1	1

Sample: 164755 - 3839-HMW32-0201

Analysis:	pH	Analytical Method:	SM 4500-H+	QC Batch:	QC09473	Date Analyzed:	2/9/01
Analyst:	LG	Preparation Method:	N/A	Prep Batch:	PB08134	Date Prepared:	2/9/01

Param	Flag	Result	Units	Dilution	RDL
pH		7.69	s.u.	1	1

Quality Control Report
Duplicate Samples

Duplicate

QC Batch: QC09472

Param	Flag	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
pH		7.66	7.66	s.u.	1	0	1.2

Duplicate

QC Batch: QC09473

Param	Flag	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
pH		7.50	7.50	s.u.	1	0	1.2

Quality Control Report
Continuing Calibration Verification Standards

CCV (1)

QC Batch: QC09472

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
pH		s.u.	8	7.91	98	-0.1 s.u. - +0.1 s.u.	2/7/01

ICV (1)

QC Batch: QC09472

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
pH		s.u.	8	7.96	99	-0.1 s.u. - +0.1 s.u.	2/7/01

CCV (1)

QC Batch: QC09473

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
pH		s.u.	8	7.92	99	-0.1 s.u. - +0.1 s.u.	2/9/01

ICV (1)

QC Batch: QC09473

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
pH		s.u.	8	7.94	99	-0.1 s.u. - +0.1 s.u.	2/9/01

Specific Conductance Results and Quality Control

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
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E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Karen Costa
Mevatec
P.O. Box 399 Bldg. 126
WSMR, NM 88002

Report Date: March 15, 2001

Order ID Number: A01020724

Project Number: 700 A20
Project Name: HELSTF Landfill (Construction)
Project Location: N/A

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace-Analysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
164541	3839-HMW33-0201-QC	Water	2/6/01	12:15	2/7/01
164543	3839-HMW33-0201	Water	2/6/01	12:15	2/7/01
164655	3839-HMW35-0201	Water	2/7/01	15:00	2/7/01
164657	3839-HMW29-0201	Water	2/7/01	12:15	2/7/01
164753	3839-HMW34-0201	Water	2/8/01	13:30	2/8/01
164755	3839-HMW32-0201	Water	2/8/01	14:20	2/8/01

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Michael T. Allen
Dr. Blair Leftwich, Director

Analytical Report

Sample: 164541 - 3839-HMW33-0201-QC

Analysis:	Conductivity	Analytical Method:	SM 2510B	QC Batch:	QC09172	Date Analyzed:	2/9/01
Analyst:	AM	Preparation Method:	N/A	Prep Batch:	PB07893	Date Prepared:	2/9/01

Param	Flag	Result	Units	Dilution	RDL
Specific Conductance		25000	μMHOS/cm	1	

Sample: 164543 - 3839-HMW33-0201

Analysis:	Conductivity	Analytical Method:	SM 2510B	QC Batch:	QC09172	Date Analyzed:	2/9/01
Analyst:	AM	Preparation Method:	N/A	Prep Batch:	PB07893	Date Prepared:	2/9/01

Param	Flag	Result	Units	Dilution	RDL
Specific Conductance		25000	μMHOS/cm	1	

Sample: 164655 - 3839-HMW35-0201

Analysis:	Conductivity	Analytical Method:	SM 2510B	QC Batch:	QC09172	Date Analyzed:	2/9/01
Analyst:	AM	Preparation Method:	N/A	Prep Batch:	PB07893	Date Prepared:	2/9/01

Param	Flag	Result	Units	Dilution	RDL
Specific Conductance		10000	μMHOS/cm	1	

Sample: 164657 - 3839-HMW29-0201

Analysis:	Conductivity	Analytical Method:	SM 2510B	QC Batch:	QC09172	Date Analyzed:	2/9/01
Analyst:	AM	Preparation Method:	N/A	Prep Batch:	PB07893	Date Prepared:	2/9/01

Param	Flag	Result	Units	Dilution	RDL
Specific Conductance		12000	μMHOS/cm	1	

Sample: 164753 - 3839-HMW34-0201

Analysis:	Conductivity	Analytical Method:	SM 2510B	QC Batch:	QC09424	Date Analyzed:	2/18/01
Analyst:	AM	Preparation Method:	N/A	Prep Batch:	PB08090	Date Prepared:	2/18/01

Param	Flag	Result	Units	Dilution	RDL
Specific Conductance		11000	μMHOS/cm	1	

Sample: 164755 - 3839-HMW32-0201

Analysis:	Conductivity	Analytical Method:	SM 2510B	QC Batch:	QC09424	Date Analyzed:	2/18/01
Analyst:	AM	Preparation Method:	N/A	Prep Batch:	PB08090	Date Prepared:	2/18/01

Param	Flag	Result	Units	Dilution	RDL
Specific Conductance		12000	μMHOS/cm	1	

Quality Control Report
Method Blank

Method Blank

QCBatch: QC09172

Param	Flag	Results	Units	Reporting Limit
Specific Conductance		<1	μMHOS/cm	

Method Blank

QCBatch: QC09424

Param	Flag	Results	Units	Reporting Limit
Specific Conductance		<1	μMHOS/cm	

Quality Control Report
Duplicate Samples

Duplicate

QC Batch: QC09172

Param	Flag	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Specific Conductance		1700	1700	μMHOS/cm	1	0	20

Duplicate

QC Batch: QC09424

Param	Flag	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Specific Conductance		11000	11000	μMHOS/cm	1	0	20

Quality Control Report
Continuing Calibration Verification Standards

CCV (1)

QC Batch: QC09172

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Specific Conductance		μMHOS/cm	1413	1350	95	80 - 120	2/9/01

ICV (1)

QC Batch: QC09172

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Specific Conductance		μMHOS/cm	1413	1370	96	80 - 120	2/9/01

CCV (1)

QC Batch: QC09424

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Specific Conductance		μMHOS/cm	1413	1370	96	80 - 120	2/18/01

ICV (1)

QC Batch: QC09424

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Specific Conductance		μMHOS/cm	1413	1360	96	80 - 120	2/18/01

Alkalinity Results and Quality Control

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
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E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Karen Costa
Mevatec
P.O. Box 399 Bldg. 126
WSMR, NM 88002

Report Date: March 15, 2001

Order ID Number: A01020724

Project Number: 700 A20
Project Name: HELSTF Landfill (Construction)
Project Location: N/A

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace-Analysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
164541	3839-HMW33-0201-QC	Water	2/6/01	12:15	2/7/01
164543	3839-HMW33-0201	Water	2/6/01	12:15	2/7/01
164655	3839-HMW35-0201	Water	2/7/01	15:00	2/7/01
164657	3839-HMW29-0201	Water	2/7/01	12:15	2/7/01
164753	3839-HMW34-0201	Water	2/8/01	13:30	2/8/01
164755	3839-HMW32-0201	Water	2/8/01	14:20	2/8/01

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Michael T. Allen
Dr. Blair Leftwich, Director

Analytical Report

Sample: 164541 - 3839-HMW33-0201-QC

Analysis:	Alkalinity	Analytical Method:	SM 2320B	QC Batch:	QC09106	Date Analyzed:	2/14/01
Analyst:	DG	Preparation Method:	N/A	Prep Batch:	PB07843	Date Prepared:	2/14/01

Param	Flag	Result	Units	Dilution	RDL
Carbonate Alkalinity		<5.0	mg/L as CaCo3	1	5
Bicarbonate Alkalinity		180	mg/L as CaCo3	1	5
Total Alkalinity		180	mg/L as CaCo3	1	5

Sample: 164543 - 3839-HMW33-0201

Analysis:	Alkalinity	Analytical Method:	SM 2320B	QC Batch:	QC09106	Date Analyzed:	2/14/01
Analyst:	DG	Preparation Method:	N/A	Prep Batch:	PB07843	Date Prepared:	2/14/01

Param	Flag	Result	Units	Dilution	RDL
Carbonate Alkalinity		<5.0	mg/L as CaCo3	1	5
Bicarbonate Alkalinity		170	mg/L as CaCo3	1	5
Total Alkalinity		170	mg/L as CaCo3	1	5

Sample: 164655 - 3839-HMW35-0201

Analysis:	Alkalinity	Analytical Method:	SM 2320B	QC Batch:	QC09106	Date Analyzed:	2/14/01
Analyst:	DG	Preparation Method:	N/A	Prep Batch:	PB07843	Date Prepared:	2/14/01

Param	Flag	Result	Units	Dilution	RDL
Carbonate Alkalinity		<5.0	mg/L as CaCo3	1	5
Bicarbonate Alkalinity		170	mg/L as CaCo3	1	5
Total Alkalinity		170	mg/L as CaCo3	1	5

Sample: 164657 - 3839-HMW29-0201

Analysis:	Alkalinity	Analytical Method:	SM 2320B	QC Batch:	QC09106	Date Analyzed:	2/14/01
Analyst:	DG	Preparation Method:	N/A	Prep Batch:	PB07843	Date Prepared:	2/14/01

Param	Flag	Result	Units	Dilution	RDL
Carbonate Alkalinity		<5.0	mg/L as CaCo3	1	5
Bicarbonate Alkalinity		200	mg/L as CaCo3	1	5
Total Alkalinity		200	mg/L as CaCo3	1	5

Sample: 164753 - 3839-HMW34-0201

Analysis:	Alkalinity	Analytical Method:	SM 2320B	QC Batch:	QC09106	Date Analyzed:	2/14/01
Analyst:	DG	Preparation Method:	N/A	Prep Batch:	PB07843	Date Prepared:	2/14/01

Param	Flag	Result	Units	Dilution	RDL
Carbonate Alkalinity		<5.0	mg/L as CaCo3	1	5
Bicarbonate Alkalinity		160	mg/L as CaCo3	1	5
Total Alkalinity		160	mg/L as CaCo3	1	5

Sample: 164755 - 3839-HMW32-0201

Analysis:	Alkalinity	Analytical Method:	SM 2320B	QC Batch:	QC09392	Date Analyzed:	2/15/01
Analyst:	LG	Preparation Method:	N/A	Prep Batch:	PB08065	Date Prepared:	2/15/01

Param	Flag	Result	Units	Dilution	RDL
Carbonate Alkalinity		<5.0	mg/L as CaCo3	1	5
Bicarbonate Alkalinity		160	mg/L as CaCo3	1	5
Total Alkalinity		160	mg/L as CaCo3	1	5

Quality Control Report
Method Blank

Method Blank QCBatch: QC09106

Param	Flag	Results	Units	Reporting Limit
Carbonate Alkalinity		<5.0	mg/L as CaCo3	5
Bicarbonate Alkalinity		<5.0	mg/L as CaCo3	5
Total Alkalinity		<5.0	mg/L as CaCo3	5

Method Blank QCBatch: QC09392

Param	Flag	Results	Units	Reporting Limit
Carbonate Alkalinity		<5.0	mg/L as CaCo3	5
Bicarbonate Alkalinity		<5.0	mg/L as CaCo3	5
Total Alkalinity		<5.0	mg/L as CaCo3	5

Quality Control Report
Duplicate Samples

Duplicate QC Batch: QC09106

Param	Flag	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Carbonate Alkalinity		<5.0	<5.0	mg/L as CaCo3	1	0	20
Bicarbonate Alkalinity		80	84	mg/L as CaCo3	1	5	20
Total Alkalinity		80	84	mg/L as CaCo3	1	5	20

Duplicate QC Batch: QC09392

Param	Flag	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Carbonate Alkalinity		<5.0	<5.0	mg/L as CaCo3	1	0	20
Bicarbonate Alkalinity		160	160	mg/L as CaCo3	1	0	20
Total Alkalinity		160	160	mg/L as CaCo3	1	0	20

Quality Control Report
Continuing Calibration Verification Standards

CCV (1) QC Batch: QC09106

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Alkalinity		mg/L as CaCo3	100	92	92	80 - 120	2/14/01

ICV (1) QC Batch: QC09106

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Alkalinity		mg/L as CaCo3	100	96	96	80 - 120	2/14/01

CCV (1) QC Batch: QC09392

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Alkalinity		mg/L as CaCo3	100	96.0	96	80 - 120	2/15/01

ICV (1) QC Batch: QC09392

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Alkalinity		mg/L as CaCo3	100	94.0	94	80 - 120	2/15/01

Total Cyanide Results and Quality Control

TRACEANALYSIS, INC.

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E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Karen Costa
Mevatec
P.O. Box 399 Bldg. 126
WSMR., NM 88002

Report Date: March 15, 2001

Order ID Number: A01020724

Project Number: 700 A20
Project Name: HELSTF Landfill (Construction)
Project Location: N/A

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace-Analysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
164541	3839-HMW33-0201-QC	Water	2/6/01	12:15	2/7/01
164543	3839-HMW33-0201	Water	2/6/01	12:15	2/7/01
164655	3839-HMW35-0201	Water	2/7/01	15:00	2/7/01
164657	3839-HMW29-0201	Water	2/7/01	12:15	2/7/01
164753	3839-HMW34-0201	Water	2/8/01	13:30	2/8/01
164755	3839-HMW32-0201	Water	2/8/01	14:20	2/8/01

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 5 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Michael T. Abel
Dr. Blair Leftwich, Director

Analytical Report

Sample: 164541 - 3839-HMW33-0201-QC

Analysis:	Total Cyanide	Analytical Method:	E 335.2	QC Batch:	QC08954	Date Analyzed:	2/9/01
Analyst:	CG	Preparation Method:	N/A	Prep Batch:	PB07719	Date Prepared:	2/9/01

Param	Flag	Result	Units	Dilution	RDL
Total Cyanide		<0.01	mg/L	1	0.01

Sample: 164543 - 3839-HMW33-0201

Analysis:	Total Cyanide	Analytical Method:	E 335.2	QC Batch:	QC08954	Date Analyzed:	2/9/01
Analyst:	CG	Preparation Method:	N/A	Prep Batch:	PB07719	Date Prepared:	2/9/01

Param	Flag	Result	Units	Dilution	RDL
Total Cyanide		<0.01	mg/L	1	0.01

Sample: 164655 - 3839-HMW35-0201

Analysis:	Total Cyanide	Analytical Method:	E 335.2	QC Batch:	QC09061	Date Analyzed:	2/14/01
Analyst:	CG	Preparation Method:	N/A	Prep Batch:	PB07800	Date Prepared:	2/14/01

Param	Flag	Result	Units	Dilution	RDL
Total Cyanide		<0.01	mg/L	1	0.01

Sample: 164657 - 3839-HMW29-0201

Analysis:	Total Cyanide	Analytical Method:	E 335.2	QC Batch:	QC09061	Date Analyzed:	2/14/01
Analyst:	CG	Preparation Method:	N/A	Prep Batch:	PB07800	Date Prepared:	2/14/01

Param	Flag	Result	Units	Dilution	RDL
Total Cyanide		<0.01	mg/L	1	0.01

Sample: 164753 - 3839-HMW34-0201

Analysis:	Total Cyanide	Analytical Method:	E 335.2	QC Batch:	QC09061	Date Analyzed:	2/14/01
Analyst:	CG	Preparation Method:	N/A	Prep Batch:	PB07800	Date Prepared:	2/14/01

Param	Flag	Result	Units	Dilution	RDL
Total Cyanide		<0.01	mg/L	1	0.01

Sample: 164755 - 3839-HMW32-0201

Analysis:	Total Cyanide	Analytical Method:	E 335.2	QC Batch:	QC09061	Date Analyzed:	2/14/01
Analyst:	CG	Preparation Method:	N/A	Prep Batch:	PB07800	Date Prepared:	2/14/01

Param	Flag	Result	Units	Dilution	RDL
Total Cyanide		<0.01	mg/L	1	0.01

Quality Control Report
Method Blank

Method Blank

QCBatch: QC08954

Param	Flag	Results	Units	Reporting Limit
Total Cyanide		<0.01	mg/L	0.01

Method Blank

QCBatch: QC09061

Param	Flag	Results	Units	Reporting Limit
Total Cyanide		<0.01	mg/L	0.01

Quality Control Report
Lab Control Spikes and Duplicate Spikes

LCS

QC Batch: QC08954

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Cyanide		0.109	mg/L	1	0.12	<0.01	90		80 - 120	20

LCSD

QC Batch: QC08954

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Cyanide		0.108	mg/L	1	0.12	<0.01	90	1	80 - 120	20

LCS

QC Batch: QC09061

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Cyanide		0.112	mg/L	1	0.12	<0.01	93		80 - 120	20

LCSD

QC Batch: QC09061

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Cyanide		0.112	mg/L	1	0.12	<0.01	93	0	80 - 120	20

Quality Control Report
Matrix Spikes and Duplicate Spikes

MS

QC Batch: QC08954

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Cyanide		0.119	mg/L	1	0.12	<0.01	99		80 - 120	20

MSD

QC Batch: QC08954

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Cyanide		0.116	mg/L	1	0.12	<0.01	96	2	80 - 120	20

MS

QC Batch: QC09061

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Cyanide		0.124	mg/L	1	0.12	<0.01	103		80 - 120	20

MSD

QC Batch: QC09061

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Cyanide		0.110	mg/L	1	0.12	<0.01	91	12	80 - 120	20

Quality Control Report
Continuing Calibration Verification Standards

CCV (1)

QC Batch: QC08954

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Cyanide		mg/L	0.12	0.117	97	80 - 120	2/9/01

ICV (1)

QC Batch: QC08954

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Cyanide		mg/L	0.12	0.125	104	80 - 120	2/9/01

CCV (1)

QC Batch: QC09061

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Cyanide		mg/L	0.12	.110	91	80 - 120	2/14/01

ICV (1)

QC Batch: QC09061

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Cyanide		mg/L	0.12	.128	106	80 - 120	2/14/01

Dissolved Ion Results and Quality Control

TRACEANALYSIS, INC.

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Analytical and Quality Control Report

Karen Costa
Mevatec
P.O. Box 399 Bldg. 126
WSMR, NM 88002

Report Date: March 16, 2001

Order ID Number: A01020724

Project Number: 700 A20
Project Name: HELSTF Landfill (Construction)
Project Location: N/A

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace-Analysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
164541	3839-HMW33-0201-QC	Water	2/6/01	12:15	2/7/01
164543	3839-HMW33-0201	Water	2/6/01	12:15	2/7/01
164655	3839-HMW35-0201	Water	2/7/01	15:00	2/7/01
164657	3839-HMW29-0201	Water	2/7/01	12:15	2/7/01
164753	3839-HMW34-0201	Water	2/8/01	13:30	2/8/01
164755	3839-HMW32-0201	Water	2/8/01	14:20	2/8/01

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 6 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Michael T. Allen
Dr. Blair Leftwich, Director

Analytical Report

Sample: 164541 - 3839-HMW33-0201-QC

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC09208 Date Analyzed: 2/7/01
Analyst: DG Preparation Method: N/A Prep Batch: PB07903 Date Prepared: 2/7/01

Param	Flag	Result	Units	Dilution	RDL
Bromide		840	mg/L	20	2
CL		4400	mg/L	20	2
Fluoride		7.8	mg/L	20	0.20
Nitrite-N		3.8	mg/L	20	0.10
Nitrate-N		<2.00	mg/L	20	0.10
Sulfate		13000	mg/L	20	1

Sample: 164543 - 3839-HMW33-0201

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC09208 Date Analyzed: 2/7/01
Analyst: DG Preparation Method: N/A Prep Batch: PB07903 Date Prepared: 2/7/01

Param	Flag	Result	Units	Dilution	RDL
Bromide		840	mg/L	20	2
CL		4400	mg/L	20	2
Fluoride		8.0	mg/L	20	0.20
Nitrite-N		3.9	mg/L	20	0.10
Nitrate-N		<2.00	mg/L	20	0.10
Sulfate		13000	mg/L	20	1

Sample: 164655 - 3839-HMW35-0201

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC09183 Date Analyzed: 2/13/01
Analyst: DG Preparation Method: N/A Prep Batch: PB07900 Date Prepared: 2/13/01

Param	Flag	Result	Units	Dilution	RDL
Bromide		<200	mg/L	100	2
CL		770	mg/L	100	2
Fluoride	[1]	2.9	mg/L	5	0.20
Nitrite-N	[2]	<0.5	mg/L	5	0.10
Nitrate-N	[3]	18	mg/L	5	0.10
Sulfate		6000	mg/L	100	1

Sample: 164657 - 3839-HMW29-0201

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC09183 Date Analyzed: 2/13/01
Analyst: DG Preparation Method: N/A Prep Batch: PB07900 Date Prepared: 2/13/01

Param	Flag	Result	Units	Dilution	RDL
Bromide		205	mg/L	100	2
CL		1100	mg/L	100	2

Continued ...

[1]This test was run on February 07, 2001.
[2]This test was run on February 07, 2001.
[3]This test was run on February 07, 2001.

... Continued Sample: 164657 Analysis: Ion Chromatography (IC)

Param	Flag	Result	Units	Dilution	RDL
Fluoride	[4]	1.0	mg/L	5	0.20
Nitrite-N	[5]	0.98	mg/L	5	0.10
Nitrate-N	[6]	37	mg/L	5	0.10
Sulfate		6800	mg/L	100	1

Sample: 164753 - 3839-HMW34-0201

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC09183 Date Analyzed: 2/13/01
Analyst: DG Preparation Method: N/A Prep Batch: PB07900 Date Prepared: 2/13/01

Param	Flag	Result	Units	Dilution	RDL
Bromide	[7]	10	mg/L	5	2
CL		790	mg/L	100	2
Fluoride	[8]	2.0	mg/L	5	0.20
Nitrite-N	[9]	<0.50	mg/L	5	0.10
Nitrate-N	[10]	14	mg/L	5	0.10
Sulfate		7200	mg/L	100	1

Sample: 164755 - 3839-HMW32-0201

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC09183 Date Analyzed: 2/13/01
Analyst: DG Preparation Method: N/A Prep Batch: PB07900 Date Prepared: 2/13/01

Param	Flag	Result	Units	Dilution	RDL
Bromide	[11]	<10	mg/L	5	2
CL		1200	mg/L	100	2
Fluoride	[12]	2.3	mg/L	5	0.20
Nitrite-N	[13]	<0.50	mg/L	5	0.10
Nitrate-N	[14]	32	mg/L	5	0.10
Sulfate		7100	mg/L	100	1

[4] This test was run on February 07, 2001.
[5] This test was run on February 07, 2001.
[6] This test was run on February 07, 2001.
[7] This test was run on February 09, 2001.
[8] This test was run on February 09, 2001.
[9] This test was run on February 09, 2001.
[10] This test was run on February 09, 2001.
[11] This test was run on February 09, 2001.
[12] This test was run on February 09, 2001.
[13] This test was run on February 09, 2001.
[14] This test was run on February 09, 2001.

Quality Control Report
Method Blank

Method Blank

QCBatch: QC09183

Param	Flag	Results	Units	Reporting Limit
Bromide		<2.0	mg/L	2
CL		<2.0	mg/L	2
Fluoride		<0.2	mg/L	0.20
Nitrite-N		<0.10	mg/L	0.10
Nitrate-N		<0.10	mg/L	0.10
Sulfate		<1.0	mg/L	1

Method Blank

QCBatch: QC09208

Param	Flag	Results	Units	Reporting Limit
Bromide		<2.0	mg/L	2
CL		<2.0	mg/L	2
Fluoride		<0.20	mg/L	0.20
Nitrite-N		<0.10	mg/L	0.10
Nitrate-N		<0.10	mg/L	0.10
Sulfate		<1.0	mg/L	1

Quality Control Report
Matrix Spikes and Duplicate Spikes

MS

QC Batch: QC09183

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Bromide		2140	mg/L	1	2000	205	96		80 - 120	20
CL		3080	mg/L	1	2000	1100	99		80 - 120	20
Fluoride	[15]	47.4	mg/L	1	50	1.0	92		80 - 120	20
Nitrite-N	[16]	27.3	mg/L	1	25	0.98	105		80 - 120	20
Nitrate-N	[17]	56.3	mg/L	1	25	37	77		80 - 120	20
Sulfate		12000	mg/L	1	5000	6800	104		80 - 120	20

MSD

QC Batch: QC09183

[15] This test was run on February 09, 2001.
[16] This test was run on February 09, 2001.
[17] This test was run on February 09, 2001.

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Bromide		2160	mg/L	1	2000	205	97	1	80 - 120	20
CL		3070	mg/L	1	2000	1100	98	0	80 - 120	20
Fluoride	[18]	47.8	mg/L	1	1.25	1.0	93	1	80 - 120	20
Nitrite-N	[19]	26.9	mg/L	1	1.25	0.98	103	2	80 - 120	20
Nitrate-N	[20]	56.3	mg/L	1	25	37	77	0	80 - 120	20
Sulfate		12000	mg/L	1	5000	6800	104	0	80 - 120	20

MS

QC Batch: QC09208

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Bromide		20.0	mg/L	1	20	<2.0	100		80 - 120	20
CL		34.6	mg/L	1	20	17	88		80 - 120	20
Fluoride		11.0	mg/L	1	10	0.83	101		80 - 120	20
Nitrite-N		5.38	mg/L	1	5	0.23	103		80 - 120	20
Nitrate-N		6.58	mg/L	1	5	2.0	91		80 - 120	20
Sulfate		95.9	mg/L	1	50	46	99		80 - 120	20

MSD

QC Batch: QC09208

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Bromide		19.9	mg/L	1	20	<2.0	99	0	80 - 120	20
CL		34.5	mg/L	1	20	17	87	0	80 - 120	20
Fluoride		11.0	mg/L	1	10	0.83	101	0	80 - 120	20
Nitrite-N		5.31	mg/L	1	5	0.23	101	1	80 - 120	20
Nitrate-N		6.54	mg/L	1	5	2.0	90	1	80 - 120	20
Sulfate		95.5	mg/L	1	50	46	99	1	80 - 120	20

Quality Control Report
Continuing Calibration Verification Standards

CCV (1)

QC Batch: QC09183

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Bromide		mg/L	20	21.8	109	80 - 120	2/13/01
CL	[21]	mg/L	20	19.0	95	80 - 120	2/13/01

Continued ...

[18] Test run on 02/09/01.
[19] Test run on 02/09/01.
[20] Test run on 02/09/01.
[21] Test run on 02/13/01.

... Continued

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Fluoride		mg/L	10	10.8	108	80 - 120	2/13/01
Nitrite-N		mg/L	5	5.35	107	80 - 120	2/13/01
Nitrate-N		mg/L	5	4.88	97	80 - 120	2/13/01
Sulfate	[22]	mg/L	50	49.6	99	80 - 120	2/13/01

ICV (1)

QC Batch: QC09183

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Bromide		mg/L	20	21.9	109	80 - 120	2/13/01
CL	[23]	mg/L	20	19.2	96	80 - 120	2/13/01
Fluoride		mg/L	10	10.8	108	80 - 120	2/13/01
Nitrite-N		mg/L	5	5.33	106	80 - 120	2/13/01
Nitrate-N		mg/L	5	4.87	97	80 - 120	2/13/01
Sulfate	[24]	mg/L	50	50.4	100	80 - 120	2/13/01

CCV (1)

QC Batch: QC09208

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Bromide		mg/L	20	21.5	107	80 - 120	2/7/01
CL		mg/L	20	19.0	95	80 - 120	2/7/01
Fluoride		mg/L	10	10.6	106	80 - 120	2/7/01
Nitrite-N		mg/L	5	5.29	105	80 - 120	2/7/01
Nitrate-N		mg/L	5	4.81	96	80 - 120	2/7/01
Sulfate		mg/L	50	51.9	103	80 - 120	2/7/01

ICV (1)

QC Batch: QC09208

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Bromide		mg/L	20	21.2	106	80 - 120	2/7/01
CL		mg/L	20	18.8	94	80 - 120	2/7/01
Fluoride		mg/L	10	10.4	104	80 - 120	2/7/01
Nitrite-N		mg/L	5	5.17	103	80 - 120	2/7/01
Nitrate-N		mg/L	5	4.77	95	80 - 120	2/7/01
Sulfate		mg/L	50	50.6	101	80 - 120	2/7/01

[22] Test run on 02/13/01.
[23] Test run on 02/13/01.
[24] Test run on 02/13/01.

Ammonia Results and Quality Control

TRACEANALYSIS, INC.

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Analytical and Quality Control Report

Karen Costa
Mevatec
P.O. Box 399 Bldg. 126
WSMR, NM 88002

Report Date: March 15, 2001

Order ID Number: A01020724

Project Number: 700 A20
Project Name: HELSTF Landfill (Construction)
Project Location: N/A

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace-Analysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
164541	3839-HMW33-0201-QC	Water	2/6/01	12:15	2/7/01
164543	3839-HMW33-0201	Water	2/6/01	12:15	2/7/01
164655	3839-HMW35-0201	Water	2/7/01	15:00	2/7/01
164657	3839-HMW29-0201	Water	2/7/01	12:15	2/7/01
164753	3839-HMW34-0201	Water	2/8/01	13:30	2/8/01
164755	3839-HMW32-0201	Water	2/8/01	14:20	2/8/01

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Michael T. Allen
Dr. Blair Leftwich, Director

Analytical Report

Sample: 164541 - 3839-HMW33-0201-QC

Analysis:	NH3	Analytical Method:	SM 4500-NH3 B,E	QC Batch:	QC09020	Date Analyzed:	2/13/01
Analyst:	CG	Preparation Method:	N/A	Prep Batch:	PB07776	Date Prepared:	2/13/01

Param	Flag	Result	Units	Dilution	RDL
Ammonia-N		<2.0	mg/L	1	2

Sample: 164543 - 3839-HMW33-0201

Analysis:	NH3	Analytical Method:	SM 4500-NH3 B,E	QC Batch:	QC09020	Date Analyzed:	2/13/01
Analyst:	CG	Preparation Method:	N/A	Prep Batch:	PB07776	Date Prepared:	2/13/01

Param	Flag	Result	Units	Dilution	RDL
Ammonia-N		<2.0	mg/L	1	2

Sample: 164655 - 3839-HMW35-0201

Analysis:	NH3	Analytical Method:	SM 4500-NH3 B,E	QC Batch:	QC09020	Date Analyzed:	2/13/01
Analyst:	CG	Preparation Method:	N/A	Prep Batch:	PB07776	Date Prepared:	2/13/01

Param	Flag	Result	Units	Dilution	RDL
Ammonia-N		<2.0	mg/L	1	2

Sample: 164657 - 3839-HMW29-0201

Analysis:	NH3	Analytical Method:	SM 4500-NH3 B,E	QC Batch:	QC09020	Date Analyzed:	2/13/01
Analyst:	CG	Preparation Method:	N/A	Prep Batch:	PB07776	Date Prepared:	2/13/01

Param	Flag	Result	Units	Dilution	RDL
Ammonia-N		<2.0	mg/L	1	2

Sample: 164753 - 3839-HMW34-0201

Analysis:	NH3	Analytical Method:	SM 4500-NH3 B,E	QC Batch:	QC09130	Date Analyzed:	2/16/01
Analyst:	CG	Preparation Method:	N/A	Prep Batch:	PB07860	Date Prepared:	2/16/01

Param	Flag	Result	Units	Dilution	RDL
Ammonia-N		<2.0	mg/L	1	2

Sample: 164755 - 3839-HMW32-0201

Analysis:	NH3	Analytical Method:	SM 4500-NH3 B,E	QC Batch:	QC09130	Date Analyzed:	2/16/01
Analyst:	CG	Preparation Method:	N/A	Prep Batch:	PB07860	Date Prepared:	2/16/01

Param	Flag	Result	Units	Dilution	RDL
Ammonia-N		<2.0	mg/L	1	2

Quality Control Report
Method Blank

Method Blank

QCBatch: QC09020

Param	Flag	Results	Units	Reporting Limit
Ammonia-N		<2.0	mg/L	2

Method Blank

QCBatch: QC09130

Param	Flag	Results	Units	Reporting Limit
Ammonia-N		<2.0	mg/L	2

Quality Control Report
Lab Control Spikes and Duplicate Spikes

LCS

QC Batch: QC09020

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Ammonia-N		4.98	mg/L	1	5	<2.0	99		80 - 120	20

LCSD

QC Batch: QC09020

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Ammonia-N		5.60	mg/L	1	5	<2.0	112	12	80 - 120	20

LCS

QC Batch: QC09130

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Ammonia-N		5.21	mg/L	1	5	<2.0	104		80 - 120	20

LCSD

QC Batch: QC09130

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Ammonia-N		4.93	mg/L	1	5	<2.0	98	6	80 - 120	20

Quality Control Report
Matrix Spikes and Duplicate Spikes

MS QC Batch: QC09020

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Ammonia-N		5.15	mg/L	1	5	<2.0	103	-	80 - 120	20

MSD QC Batch: QC09020

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Ammonia-N		5.60	mg/L	1	5	<2.0	112	8	80 - 120	20

MS QC Batch: QC09130

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Ammonia-N		5.04	mg/L	1	5	<2.0	100		80 - 120	20

MSD QC Batch: QC09130

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Ammonia-N		5.21	mg/L	1	5	<2.0	104	3	80 - 120	20

Quality Control Report
Continuing Calibration Verification Standards

CCV (1) QC Batch: QC09020

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Ammonia-N		mg/L	5	5.10	102	80 - 120	2/13/01

ICV (1)

QC Batch: QC09020

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Ammonia-N		mg/L	5	5.54	110	80 - 120	2/13/01

CCV (1)

QC Batch: QC09130

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Ammonia-N		mg/L	5	4.65	93	80 - 120	2/16/01

ICV (1)

QC Batch: QC09130

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Ammonia-N		mg/L	5	5.15	103	80 - 120	2/16/01

TKN Results and Quality Control

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164655	3839-HMW35-0201	Water	2/7/01	15:00	2/7/01
164657	3839-HMW29-0201	Water	2/7/01	12:15	2/7/01
164753	3839-HMW34-0201	Water	2/8/01	13:30	2/8/01
164755	3839-HMW32-0201	Water	2/8/01	14:20	2/8/01

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Dr. Blair Leftwich, Director

Analytical Report

Sample: 164541 - 3839-HMW33-0201-QC

Analysis:	TKN	Analytical Method:	E 351.3	QC Batch:	QC09123	Date Analyzed:	2/13/01
Analyst:	CG	Preparation Method:	N/A	Prep Batch:	PB07853	Date Prepared:	2/13/01

Param	Flag	Result	Units	Dilution	RDL
Total Kjeldahl Nitrogen - N		<12.5	mg/L	1	12.50

Sample: 164543 - 3839-HMW33-0201

Analysis:	TKN	Analytical Method:	E 351.3	QC Batch:	QC09123	Date Analyzed:	2/13/01
Analyst:	CG	Preparation Method:	N/A	Prep Batch:	PB07853	Date Prepared:	2/13/01

Param	Flag	Result	Units	Dilution	RDL
Total Kjeldahl Nitrogen - N		<12.5	mg/L	1	12.50

Sample: 164655 - 3839-HMW35-0201

Analysis:	TKN	Analytical Method:	E 351.3	QC Batch:	QC09123	Date Analyzed:	2/13/01
Analyst:	CG	Preparation Method:	N/A	Prep Batch:	PB07853	Date Prepared:	2/13/01

Param	Flag	Result	Units	Dilution	RDL
Total Kjeldahl Nitrogen - N		<12.5	mg/L	1	12.50

Sample: 164657 - 3839-HMW29-0201

Analysis:	TKN	Analytical Method:	E 351.3	QC Batch:	QC09123	Date Analyzed:	2/13/01
Analyst:	CG	Preparation Method:	N/A	Prep Batch:	PB07853	Date Prepared:	2/13/01

Param	Flag	Result	Units	Dilution	RDL
Total Kjeldahl Nitrogen - N		<12.5	mg/L	1	12.50

Sample: 164753 - 3839-HMW34-0201

Analysis:	TKN	Analytical Method:	E 351.3	QC Batch:	QC09124	Date Analyzed:	2/13/01
Analyst:	CG	Preparation Method:	N/A	Prep Batch:	PB07854	Date Prepared:	2/13/01

Param	Flag	Result	Units	Dilution	RDL
Total Kjeldahl Nitrogen - N		<12.5	mg/L	1	12.50

Sample: 164755 - 3839-HMW32-0201

Analysis:	TKN	Analytical Method:	E 351.3	QC Batch:	QC09124	Date Analyzed:	2/13/01
Analyst:	CG	Preparation Method:	N/A	Prep Batch:	PB07854	Date Prepared:	2/13/01

Param	Flag	Result	Units	Dilution	RDL
Total Kjeldahl Nitrogen - N		<12.5	mg/L	1	12.50

Quality Control Report
Method Blank

Method Blank

QCBatch: QC09123

Param	Flag	Results	Units	Reporting Limit
Total Kjeldahl Nitrogen - N		<12.5	mg/L	12.50

Method Blank

QCBatch: QC09124

Param	Flag	Results	Units	Reporting Limit
Total Kjeldahl Nitrogen - N		<12.5	mg/L	12.50

Quality Control Report
Lab Control Spikes and Duplicate Spikes

LCS

QC Batch: QC09123

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Kjeldahl Nitrogen - N		45.1	mg/L	1	50	<12.5	90		80 - 120	20

LCSD

QC Batch: QC09123

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Kjeldahl Nitrogen - N		46.2	mg/L	1	50	<12.5	92	2	80 - 120	20

LCS

QC Batch: QC09124

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Kjeldahl Nitrogen - N		47.3	mg/L	1	50	<12.5	94		80 - 120	20

LCSD

QC Batch: QC09124

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Kjeldahl Nitrogen - N		46.8	mg/L	1	50	<12.5	93	1	80 - 120	20

Quality Control Report
Matrix Spikes and Duplicate Spikes

MS

QC Batch: QC09123

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Kjeldahl Nitrogen - N		42.8	mg/L	1	50	<12.5	85		80 - 120	20

MSD

QC Batch: QC09123

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Kjeldahl Nitrogen - N		40.9	mg/L	1	50	<12.5	81	4	80 - 120	20

MS

QC Batch: QC09124

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Kjeldahl Nitrogen - N		46.5	mg/L	1	50	<12.5	93		80 - 120	20

MSD

QC Batch: QC09124

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Kjeldahl Nitrogen - N	[1]	1.4	mg/L	1	50	<12.5	2	188	80 - 120	20

Quality Control Report
Continuing Calibration Verification Standards

CCV (1)

QC Batch: QC09123

[1]Poor MSD recovery due to chemist error in spiking for sample 164659. LCS/LCSD show that the method was in control.

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		mg/L	25	22.6	90	80 - 120	2/13/01

ICV (1)

QC Batch: QC09123

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		mg/L	25	22.0	88	80 - 120	2/13/01

CCV (1)

QC Batch: QC09124

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		mg/L	25	23.6	94	80 - 120	2/13/01

ICV (1)

QC Batch: QC09124

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		mg/L	25	22.6	90	80 - 120	2/13/01

Hexavalent Chromium Results and Quality Control

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164657	3839-HMW29-0201	Water	2/7/01	12:15	2/7/01
164753	3839-HMW34-0201	Water	2/8/01	13:30	2/8/01
164755	3839-HMW32-0201	Water	2/8/01	14:20	2/8/01

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Michael T. Blair
Dr. Blair Leftwich, Director

Analytical Report

Sample: 164541 - 3839-HMW33-0201-QC

Analysis:	CR6	Analytical Method:	SM 3500-Cr D	QC Batch:	QC09099	Date Analyzed:	2/7/01
Analyst:	DG	Preparation Method:	N/A	Prep Batch:	PB07832	Date Prepared:	2/7/01

Param	Flag	Result	Units	Dilution	RDL
Hexavalent Chromium		1.42	mg/L	2	0.05

Sample: 164543 - 3839-HMW33-0201

Analysis:	CR6	Analytical Method:	SM 3500-Cr D	QC Batch:	QC09099	Date Analyzed:	2/7/01
Analyst:	DG	Preparation Method:	N/A	Prep Batch:	PB07832	Date Prepared:	2/7/01

Param	Flag	Result	Units	Dilution	RDL
Hexavalent Chromium		1.42	mg/L	2	0.05

Sample: 164655 - 3839-HMW35-0201

Analysis:	CR6	Analytical Method:	SM 3500-Cr D	QC Batch:	QC09099	Date Analyzed:	2/7/01
Analyst:	DG	Preparation Method:	N/A	Prep Batch:	PB07832	Date Prepared:	2/7/01

Param	Flag	Result	Units	Dilution	RDL
Hexavalent Chromium		<0.05	mg/L	1	0.05

Sample: 164657 - 3839-HMW29-0201

Analysis:	CR6	Analytical Method:	SM 3500-Cr D	QC Batch:	QC09099	Date Analyzed:	2/7/01
Analyst:	DG	Preparation Method:	N/A	Prep Batch:	PB07832	Date Prepared:	2/7/01

Param	Flag	Result	Units	Dilution	RDL
Hexavalent Chromium		<0.05	mg/L	1	0.05

Sample: 164753 - 3839-HMW34-0201

Analysis:	CR6	Analytical Method:	SM 3500-Cr D	QC Batch:	QC08992	Date Analyzed:	2/9/01
Analyst:	DG	Preparation Method:	N/A	Prep Batch:	PB07833	Date Prepared:	2/9/01

Param	Flag	Result	Units	Dilution	RDL
Hexavalent Chromium		<0.05	mg/L	1	0.05

Sample: 164755 - 3839-HMW32-0201

Analysis:	CR6	Analytical Method:	SM 3500-Cr D	QC Batch:	QC08992	Date Analyzed:	2/9/01
Analyst:	DG	Preparation Method:	N/A	Prep Batch:	PB07833	Date Prepared:	2/9/01

Param	Flag	Result	Units	Dilution	RDL
Hexavalent Chromium		<0.05	mg/L	1	0.05

Quality Control Report
Method Blank

Method Blank QCBatch: QC08992

Param	Flag	Results	Units	Reporting Limit
Hexavalent Chromium		<0.05	mg/L	0.05

Method Blank QCBatch: QC09099

Param	Flag	Results	Units	Reporting Limit
Hexavalent Chromium		<0.05	mg/L	0.05

Quality Control Report
Matrix Spikes and Duplicate Spikes

MS QC Batch: QC08992

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Hexavalent Chromium		0.491	mg/L	1	0.50	<0.05	98		80 - 120	20

MSD QC Batch: QC08992

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Hexavalent Chromium		0.492	mg/L	1	0.50	<0.05	98	0	80 - 120	20

MS QC Batch: QC09099

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Hexavalent Chromium		0.497	mg/L	1	0.50	<0.05	99		80 - 120	20

MSD QC Batch: QC09099

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Hexavalent Chromium		0.492	mg/L	1	0.50	<0.05	98	1	80 - 120	20

Quality Control Report
Continuing Calibration Verification Standards

CCV (1)

QC Batch: QC08992

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Hexavalent Chromium		mg/L	0.50	0.490	98	80 - 120	2/9/01

ICV (1)

QC Batch: QC08992

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Hexavalent Chromium		mg/L	0.50	0.488	97	80 - 120	2/9/01

CCV (1)

QC Batch: QC09099

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Hexavalent Chromium		mg/L	0.50	0.480	96	80 - 120	2/7/01

ICV (1)

QC Batch: QC09099

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Hexavalent Chromium		mg/L	0.50	0.481	96	80 - 120	2/7/01

Subbed Analysis Results and Quality Control

- **Ammonium Perchlorate**
- **Herbicides**
- **Metals**

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I2565
TraceAnalysis, Inc.
6701 Aberdeen Ave, Suite 9
Lubbock, TX 79424-

Attn: Nell Green

Report Date: *21-Feb-01*

Phone: (800) 378-1296 **Ext:**
FAX: (806) 794-1298

Our Lab #: 021201023
Date Logged-In: 2/12/01
Matrix: Water
Project #: HELSTF Landfil

Your Sample ID: 3839-HMW33-0201-QC-164541
Sample Source: Groundwater Monitoring
Client Project #:
PO#: 700A20
Date Submitted to Lab: 2/12/2001

- COLLECTION INFORMATION -

Date/Time/By: 2/6/01 12:15 PM

Test Group	EPA Method	Test	Result	Units	Analysis Date	Analyst	WS#
NH4CLO4	314.0	Ammonium Perchlorate, aq	< 65.0	ug/L	2/14/01	JMN	2852

End of Report

Report Approved By: R Mosher

Arizona Lab License No. AZ0009

2700 E. BILBY ROAD • BUILDING A • TUCSON, AZ 85706
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ATEL
Aqua Tech Environmental Laboratories, Inc.

- QUALITY CONTROL REPORT -

Printed: 2/21/2001

WS#	Lab#	Test ID	QC Code	Result	Units	True Added	-- QC Calculations -- QC1		-- QC Calculations -- QC2	Lower Limit	Upper Limit
2852	020601003M	PER	M	24.5	ug/L	25	98	%R:	%RPD	80	120
2852	020601003S	PER	S	24.4	ug/L	25	98	%R:		80	120
2852	Blank	PER	B	0.00	ug/L	0					
2852	Calib Check	PER	K	19.2	ug/L	20	96	%R:		85	115
2852	Calib Check	PER	K	5.69	ug/L	5	114	%R:		75	125
2852	Calib Check	PER	K	99.6	ug/L	100	100	%R:		85	115
2852	Control	PER	C	24.6	ug/L	25	98	%R:		85	115
2852	LCS	PER	C	24.0	ug/L	25	96	%R:		80	120

QC Code Legend

B Blanks	K Calibration Checks	S Spikes
C Control Samples	M Matrix Spike Duplicates	
D Duplicates	R Surrogates	

2700 E. BILBY ROAD • BUILDING A • TUCSON, AZ 85706
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Attn: Nell Green

Report Date: *21-Feb-01*
Phone: (800) 378-1296 **Ext:**
FAX: (806) 794-1298

Our Lab #: 021201022
Date Logged-In: 2/12/01
Matrix: Water
Project #: HELSTF Landfil
Your Sample ID: 3839-HMW33-0201-164543
Sample Source: Groundwater Monitoring
Client Project #:
PO#: 700A20
Date Submitted to Lab: 2/12/2001

- COLLECTION INFORMATION -

Date/Time/By: 2/6/01 12:15 PM

Test Group	EPA Method	Test	Result	Units	Analysis Date	Analyst	WS#
NH4CLO4	314.0	Ammonium Perchlorate, aq	< 70.9	ug/L	2/14/01	JMN	2852

End of Report

Report Approved By: R Mosher

Arizona Lab License No. AZ0009

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- QUALITY CONTROL REPORT -

Printed: 2/21/2001

WS#	Lab#	Test ID	QC Code	Result	Units	True Added	-- QC Calculations -- QC1	-- QC Calculations -- QC2	Lower Limit	Upper Limit
2852	020601003M	PER	M	24.5	ug/L	25	98 %R:	%RPD	80	120
2852	020601003S	PER	S	24.4	ug/L	25	98 %R:		80	120
2852	Blank	PER	B	0.00	ug/L	0				
2852	Calib Check	PER	K	19.2	ug/L	20	96 %R:		85	115
2852	Calib Check	PER	K	5.69	ug/L	5	114 %R:		75	125
2852	Calib Check	PER	K	99.6	ug/L	100	100 %R:		85	115
2852	Control	PER	C	24.6	ug/L	25	98 %R:		85	115
2852	LCS	PER	C	24.0	ug/L	25	96 %R:		80	120

QC Code Legend

B	Blanks	K	Calibration Checks	S	Spikes
C	Control Samples	M	Matrix Spike Duplicates		
D	Duplicates	R	Surrogates		

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- CERTIFICATE OF ANALYSIS -

Client #: I2565
TraceAnalysis, Inc.
6701 Aberdeen Ave, Suite 9
Lubbock, TX 79424-

Report Date: *21-Feb-01*

Phone: (800) 378-1296 **Ext:**
FAX: (806) 794-1298

Attn: Nell Green

Our Lab #: 021201025 **Your Sample ID:** 3839-HMW35-0201-164655
Date Logged-In: 2/12/01 **Sample Source:** Groundwater Monitoring
Matrix: Water **Client Project #:** **PO#:** 700A20
Project #: HELSTF Landfil **Date Submitted to Lab:** 2/12/2001

- COLLECTION INFORMATION -

Date/Time/By: 2/6/01 3:00 PM

Test Group	EPA Method	Test	Result	Units	Analysis Date	Analyst	WS#
NH4CLO4	314.0	Ammonium Perchlorate, aq	< 29.5	ug/L	2/14/01	JMN	2852

End of Report

Report Approved By: R Mosher

Arizona Lab License No. AZ0009

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- QUALITY CONTROL REPORT -

Printed: 2/21/2001

WS#	Lab#	Test ID	QC Code	Result	Units	True Added	-- QC Calculations -- QC1		-- QC Calculations -- QC2	Lower Limit	Upper Limit
2852	020601003M	PER	M	24.5	ug/L	25	98 %R:		%RPD	80	120
2852	020601003S	PER	S	24.4	ug/L	25	98 %R:			80	120
2852	Blank	PER	B	0.00	ug/L	0					
2852	Calib Check	PER	K	19.2	ug/L	20	96 %R:			85	115
2852	Calib Check	PER	K	5.69	ug/L	5	114 %R:			75	125
2852	Calib Check	PER	K	99.6	ug/L	100	100 %R:			85	115
2852	Control	PER	C	24.6	ug/L	25	98 %R:			85	115
2852	LCS	PER	C	24.0	ug/L	25	96 %R:			80	120

QC Code Legend

B	Blanks	K	Calibration Checks	S	Spikes
C	Control Samples	M	Matrix Spike Duplicates		
D	Duplicates	R	Surrogates		

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Client #: I2565
TraceAnalysis, Inc.
6701 Aberdeen Ave, Suite 9
Lubbock, TX 79424-

Report Date: *21-Feb-01*

Phone: (800) 378-1296 **Ext:**
FAX: (806) 794-1298

Attn: Nell Green

Our Lab #: 021201024 **Your Sample ID:** 3839-HMW29-0201-164657
Date Logged-In: 2/12/01 **Sample Source:** Groundwater Monitoring
Matrix: Water **Client Project #:** **PO#:** 700A20
Project #: HELSTF Landfil **Date Submitted to Lab:** 2/12/2001

- COLLECTION INFORMATION -

Date/Time/By: 2/7/01 12:15 PM

Test Group	EPA Method	Test	Result	Units	Analysis Date	Analyst	WS#
NH4CLO4	314.0	Ammonium Perchlorate, aq	< 29.5	ug/L	2/14/01	JMN	2852

End of Report

Report Approved By: R Mosher

Arizona Lab License No. AZ0009

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Printed: 2/21/2001

WS#	Lab#	Test ID	QC Code	Result	Units	True Added	-- QC Calculations -- QC1	-- QC Calculations -- QC2	Lower Limit	Upper Limit
2852	020601003M	PER	M	24.5	ug/L	25	98 %R:	%RPD	80	120
2852	020601003S	PER	S	24.4	ug/L	25	98 %R:		80	120
2852	Blank	PER	B	0.00	ug/L	0				
2852	Calib Check	PER	K	19.2	ug/L	20	96 %R:		85	115
2852	Calib Check	PER	K	5.69	ug/L	5	114 %R:		75	125
2852	Calib Check	PER	K	99.6	ug/L	100	100 %R:		85	115
2852	Control	PER	C	24.6	ug/L	25	98 %R:		85	115
2852	LCS	PER	C	24.0	ug/L	25	96 %R:		80	120

QC Code Legend

B Blanks	K Calibration Checks	S Spikes
C Control Samples	M Matrix Spike Duplicates	
D Duplicates	R Surrogates	

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Client #: I2565
TraceAnalysis, Inc.
6701 Aberdeen Ave, Suite 9
Lubbock, TX 79424-

Report Date: *01-Mar-01*

Phone: (800) 378-1296 **Ext:**
FAX: (806) 794-1298

Attn: Nel Green

Our Lab #: 021601021 **Your Sample ID:** 3839-HMW34-0201-164753
Date Logged-In: 2/16/01 **Sample Source:** Groundwater Monitoring
Matrix: Water **Client Project #:** **PO#:** 700A20
Project #: HELSTFLandfill **Date Submitted to Lab:** 2/16/2001

- COLLECTION INFORMATION -

Date/Time/By: 2/8/01 1:30 PM

Test Group	EPA Method	Test	Result	Units	Analysis Date	Analyst	WS#
NH4CLO4	314.0	Ammonium Perchlorate, aq	< 29.5	ug/L	2/19/01	JMN	2863

End of Report

Report Approved By: R Mosher

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- QUALITY CONTROL REPORT -

Printed: 3/1/2001

WS#	Lab#	Test ID	QC Code	Result	Units	True Added	-- QC Calculations -- QC1		-- QC Calculations -- QC2	Lower Limit	Upper Limit
2863	021401030M	PER	M	28.6	ug/L	25	114	%R:	3 %RPD	80	120
2863	021401030S	PER	S	27.7	ug/L	25	111	%R:		80	120
2869	021601001M	PER-S	M	50.7	ug/Kg	49.485	103	%R:	7 %RPD	80	120
2869	021601001S	PER-S	S	54.4	ug/Kg	50.18	108	%R:		80	120
2863	Blank	PER	B	0.00	ug/L	0					
2869	Blank	PER-S	B	0.00	ug/Kg	0					
2863	Calib Check	PER	K	115	ug/L	100	115	%R:		85	115
2863	Calib Check	PER	K	21.6	ug/L	20	108	%R:		85	115
2863	Calib Check	PER	K	5.09	ug/L	5	102	%R:		75	125
2869	Calib Check	PER-S	K	114	ug/Kg	100	114	%R:		85	115
2869	Calib Check	PER-S	K	22.0	ug/Kg	20	110	%R:		85	115
2869	Calib Check	PER-S	K	5.40	ug/Kg	5	108	%R:		75	125
2863	Control	PER	C	26.4	ug/L	25	106	%R:		85	115
2869	Control	PER-S	C	27.3	ug/Kg	25	109	%R:		85	115
2869	Control	PER-S	C	46.4	ug/Kg	50	93	%R: *		0	
2863	LCS	PER	C	26.5	ug/L	25	106	%R:		80	120
2869	LCS	PER-S	C	25.6	ug/Kg	25	102	%R:		80	120

QC Code Legend

B	Blanks	K	Calibration Checks	S	Spikes
C	Control Samples	M	Matrix Spike Duplicates		
D	Duplicates	R	Surrogates		

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- CERTIFICATE OF ANALYSIS -

Client #: I2565
TraceAnalysis, Inc.
6701 Aberdeen Ave, Suite 9
Lubbock, TX 79424-

Report Date: *01-Mar-01*

Phone: (800) 378-1296 **Ext:**
FAX: (806) 794-1298

Attn: Nel Green

Our Lab #: 021601020
Date Logged-In: 2/16/01
Matrix: Water
Project #: HELSTFLandfill

Your Sample ID: 3839-HMW32-0201-164755
Sample Source: Groundwater Monitoring
Client Project #:
PO#: 700A20
Date Submitted to Lab: 2/16/2001

- COLLECTION INFORMATION -

Date/Time/By: 2/8/01 2:20 PM

Test Group	EPA Method	Test	Result	Units	Analysis Date	Analyst	WS#
NH4CLO4	314.0	Ammonium Perchlorate, aq	< 29.5	ug/L	2/19/01	JMN	2863

End of Report

Report Approved By: R Mosher

ATEL
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- QUALITY CONTROL REPORT -

Printed: 3/1/2001

WS#	Lab#	Test ID	QC Code	Result	Units	True Added	-- QC Calculations -- QC1			-- QC Calculations -- QC2	Lower Limit	Upper Limit
2863	021401030M	PER	M	28.6	ug/L	25	114	%R:		3 %RPD	80	120
2863	021401030S	PER	S	27.7	ug/L	25	111	%R:			80	120
2869	021601001M	PER-S	M	50.7	ug/Kg	49.485	103	%R:		7 %RPD	80	120
2869	021601001S	PER-S	S	54.4	ug/Kg	50.18	108	%R:			80	120
2863	Blank	PER	B	0.00	ug/L	0						
2869	Blank	PER-S	B	0.00	ug/Kg	0						
2863	Calib Check	PER	K	115	ug/L	100	115	%R:			85	115
2863	Calib Check	PER	K	21.6	ug/L	20	108	%R:			85	115
2863	Calib Check	PER	K	5.09	ug/L	5	102	%R:			75	125
2869	Calib Check	PER-S	K	114	ug/Kg	100	114	%R:			85	115
2869	Calib Check	PER-S	K	22.0	ug/Kg	20	110	%R:			85	115
2869	Calib Check	PER-S	K	5.40	ug/Kg	5	108	%R:			75	125
2863	Control	PER	C	26.4	ug/L	25	106	%R:			85	115
2869	Control	PER-S	C	27.3	ug/Kg	25	109	%R:			85	115
2869	Control	PER-S	C	46.4	ug/Kg	50	93	%R:	*		0	
2863	LCS	PER	C	26.5	ug/L	25	106	%R:			80	120
2869	LCS	PER-S	C	25.6	ug/Kg	25	102	%R:			80	120

QC Code Legend

B Blanks	K Calibration Checks	S Spikes
C Control Samples	M Matrix Spike Duplicates	
D Duplicates	R Surrogates	

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- CERTIFICATE OF ANALYSIS -

Client #: I2565

Trace Analysis

6701 Aberdeen

Suite 9

Lubbock, TX 79424-

Attn: Nell Green

Report Date: *13-Feb-01*

Phone: (806) 794-1296 **Ext:**

FAX: (806) 794-1298

Our Lab#: MEL01-01660 **Your Sample ID:** 3839-HMW33-0201-QC-164541

Date Logged In: 2/9/01 **Sample Source:** NPDES/WWTP's

Sample Type: Water **Client Project #:**

Project #: **Date Submitted to Lab:** 2/8/2001 **PO#:** 700A20

- COLLECTION INFORMATION -

Date/Time/By: 2/6/01 12:15 PM

EPA Method	Analyst	Prep Date	Analysis Date
8151	DAW	2/9/01	2/11/01

CAS Number	Parameter	Result	Typical Report Limit
75-99-0	Dalapon	< 1.0 ug/l	1
94-82-6	2,4-DB	< 0.20 ug/l	0.2
1918-00-9	Dicamba	< 0.20 ug/l	0.2
94-75-7	2,4-Dichlorophenoxyacetic acid (2,4-D)	< 0.20 ug/l	0.2
120-36-5	Dichloroprop	< 0.20 ug/l	0.2
88-85-7	Dinoseb	< 0.20 ug/l	0.2
94-74-6	MCPA	< 10 ug/l	10
7085-19-0	MCPP	< 10 ug/l	10
93-72-1	Silvex	< 0.20 ug/l	0.2
93-76-5	2,4,5-T	< 0.20 ug/l	0.2

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL01-01660	8151	DCAA (Surr)	99 %R	19	146

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

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ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I2565 **Report Date:** *14-Feb-01*

Trace Analysis
6701 Aberdeen
Suite 9
Lubbock, TX 79424-

Phone: (806) 794-1296 **Ext:**
FAX: (806) 794-1298

Attn: Nell Green

Our Lab#: MEL01-01659 **Your Sample ID:** 3839-HMW33-0201-164543
Date Logged In: 2/9/01 **Sample Source:** NPDES/WWTP's
Sample Type: Water **Client Project #:**
Project #: **Date Submitted to Lab:** 2/8/2001 **PO#:** 700A20

- COLLECTION INFORMATION -

Date/Time/By: 2/6/01 12:15 PM

EPA Method	Analyst	Prep Date	Analysis Date
8151	DAW	2/9/01	2/11/01

CAS Number	Parameter	Result	Typical Report Limit
75-99-0	Dalapon	< 1.0 ug/l	1
94-82-6	2,4-DB	< 0.20 ug/l	0.2
1918-00-9	Dicamba	< 0.20 ug/l	0.2
94-75-7	2,4-Dichlorophenoxyacetic acid (2,4-D)	< 0.20 ug/l	0.2
120-36-5	Dichloroprop	< 0.20 ug/l	0.2
88-85-7	Dinoseb	< 0.20 ug/l	0.2
94-74-6	MCPA	< 10 ug/l	10
7085-19-0	MCPP	< 10 ug/l	10
93-72-1	Silvex	< 0.20 ug/l	0.2
93-76-5	2,4,5-T	< 0.20 ug/l	0.2

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL01-01659	8151	DCAA (Surr)	109 %R	19	146

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

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Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I2565 **Report Date:** *02-Mar-01*

Trace Analysis
6701 Aberdeen
Suite 9
Lubbock, TX 79424-

Phone: (806) 794-1296 **Ext:**
FAX: (806) 794-1298

Attn: Nell Green

Our Lab#: MEL01-01735 **Your Sample ID:** 164655
Date Logged In: 2/13/01 **Sample Source:** RCRA
Sample Type: Water **Client Project #:**
Project #: **Date Submitted to Lab:** 2/12/2001 **PO#:** 700A20

- COLLECTION INFORMATION -

Date/Time/By: 2/7/01 3:00 PM

EPA Method	Analyst	Prep Date	Analysis Date
8151	DAW	2/13/01	2/14/01

CAS Number	Parameter	Result	Typical Report Limit
75-99-0	Dalapon	< 1.0 ug/l	1
94-82-6	2,4-DB	< 0.20 ug/l	0.2
1918-00-9	Dicamba	< 0.20 ug/l	0.2
94-75-7	2,4-Dichlorophenoxyacetic acid (2,4-D)	< 0.20 ug/l	0.2
120-36-5	Dichloroprop	< 0.20 ug/l	0.2
88-85-7	Dinoseb	< 0.20 ug/l	0.2
94-74-6	MCPA	< 10 ug/l	10
7085-19-0	MCPP	< 10 ug/l	10
93-72-1	Silvex	< 0.20 ug/l	0.2
93-76-5	2,4,5-T	< 0.20 ug/l	0.2

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL01-01735	8151	DCAA (Surr)	92 %R	19	146

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

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ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I2565 **Report Date:** *02-Mar-01*

Trace Analysis
6701 Aberdeen
Suite 9
Lubbock, TX 79424-

Phone: (806) 794-1296 **Ext:**
FAX: (806) 794-1298

Attn: Nell Green

Our Lab#: MEL01-01734 **Your Sample ID:** 164657
Date Logged In: 2/13/01 **Sample Source:** RCRA
Sample Type: Water **Client Project #:**
Project #: **Date Submitted to Lab:** 2/12/2001 **PO#:** 700A20

- COLLECTION INFORMATION -

Date/Time/By: 2/7/01 12:15 PM

EPA Method	Analyst	Prep Date	Analysis Date
8151	DAW	2/13/01	2/14/01

CAS Number	Parameter	Result	Typical Report Limit
75-99-0	Dalapon	< 1.0 ug/l	1
94-82-6	2,4-DB	< 0.20 ug/l	0.2
1918-00-9	Dicamba	< 0.20 ug/l	0.2
94-75-7	2,4-Dichlorophenoxyacetic acid (2,4-D)	< 0.20 ug/l	0.2
120-36-5	Dichloroprop	< 0.20 ug/l	0.2
88-85-7	Dinoseb	< 0.20 ug/l	0.2
94-74-6	MCPA	< 10 ug/l	10
7085-19-0	MCPP	< 10 ug/l	10
93-72-1	Silvex	< 0.20 ug/l	0.2
93-76-5	2,4,5-T	< 0.20 ug/l	0.2

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL01-01734	8151	DCAA (Surr)	98 %R	19	146

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

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Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I2565 **Report Date:** *26-Feb-01*

Trace Analysis
6701 Aberdeen
Suite 9
Lubbock, TX 79424-

Phone: (806) 794-1296 **Ext:**
FAX: (806) 794-1298

Attn: Nell Green

Our Lab#: MEL01-01782 **Your Sample ID:** 3839-HMW34-0201-164753
Date Logged In: 2/13/01 **Sample Source:** RCRA
Sample Type: Water **Client Project #:**
Project #: **Date Submitted to Lab:** 2/13/2001 **PO#:** 700A20

- COLLECTION INFORMATION -

Date/Time/By: 2/8/01 1:30 PM

EPA Method	Analyst	Prep Date	Analysis Date
8151	DAW	2/14/01	2/18/01

CAS Number	Parameter	Result	Typical Report Limit
75-99-0	Dalapon	< 1.0 ug/l	1
94-82-6	2,4-DB	< 0.20 ug/l	0.2
1918-00-9	Dicamba	< 0.20 ug/l	0.2
94-75-7	2,4-Dichlorophenoxyacetic acid (2,4-D)	< 0.20 ug/l	0.2
120-36-5	Dichloroprop	< 0.20 ug/l	0.2
88-85-7	Dinoseb	< 0.20 ug/l	0.2
94-74-6	MCPA	< 10 ug/l	10
7085-19-0	MCPP	< 10 ug/l	10
93-72-1	Silvex	< 0.20 ug/l	0.2
93-76-5	2,4,5-T	< 0.20 ug/l	0.2

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL01-01782	8151	DCAA (Surr)	105 %R	19	146

End of Report

Report Approved By: Wade T. DeLong

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Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I2565 **Report Date:** *26-Feb-01*

Trace Analysis
6701 Aberdeen
Suite 9
Lubbock, TX 79424-

Phone: (806) 794-1296 **Ext:**
FAX: (806) 794-1298

Attn: Nell Green

Our Lab#: MEL01-01781 **Your Sample ID:** 3839-HMW32-0201-164755
Date Logged In: 2/13/01 **Sample Source:** RCRA
Sample Type: Water **Client Project #:**
Project #: **Date Submitted to Lab:** 2/13/2001 **PO#:** 700A20

- COLLECTION INFORMATION -

Date/Time/By: 2/8/01 2:20 PM

EPA Method	Analyst	Prep Date	Analysis Date
8151	DAW	2/14/01	2/17/01

CAS Number	Parameter	Result	Typical Report Limit
75-99-0	Dalapon	< 1.0 ug/l	1
94-82-6	2,4-DB	< 0.20 ug/l	0.2
1918-00-9	Dicamba	< 0.20 ug/l	0.2
94-75-7	2,4-Dichlorophenoxyacetic acid (2,4-D)	< 0.20 ug/l	0.2
120-36-5	Dichloroprop	< 0.20 ug/l	0.2
88-85-7	Dinoseb	< 0.20 ug/l	0.2
94-74-6	MCPA	< 10 ug/l	10
7085-19-0	MCPP	< 10 ug/l	10
93-72-1	Silvex	< 0.20 ug/l	0.2
93-76-5	2,4,5-T	< 0.20 ug/l	0.2

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL01-01781	8151	DCAA (Surr)	111 %R	19	146

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

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- QUALITY CONTROL REPORT -

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WS#	Lab#	Test ID	QC Code	Result	Units	True Added	-- QC Calculations -- QC1	-- QC Calculations -- QC2	Lower Limit	Upper Limit
24958	ICV	P	C	.3002	MG/L	0.273	110 %R:		90	110
24985	LCS	AS	C	21.8075	UG/L	20	109 %R:		50	150
24985	LCS	BE	C	10.7683	UG/L	10	108 %R:		50	150
24985	LCS	CD	C	10.9528	UG/L	10	110 %R:		50	150
24985	LCS	LI	C	56.3166	UG/L	50	113 %R:		50	150
24985	LCS	MO	C	112.8406	UG/L	100	113 %R:		50	150
24985	LCS	PB	C	10.8449	UG/L	10	108 %R:		50	150
24985	LCS	SI	C	.111	MG/L	0.1	111 %R:		50	150
24985	LCS	SN	C	94.3521	UG/L	100	94 %R:		50	150
24985	LCS	SR	C	114.3284	UG/L	100	114 %R:		50	150
24985	LCS	U	C	114.3881	UG/L	100	114 %R:		50	150
24958	LCSA	P	C	.2547	MG/L	0.25	102 %R:		80	120
24985	LCSA 3.13.1	AS	C	17.1129	UG/L	20	86 %R:		50	150
25012	LCSA 3.13.1	B	C	108.045	UG/L	100	108 %R:		50	150
24985	LCSA 3.13.1	BE	C	11.6311	UG/L	10	116 %R:		50	150
24985	LCSA 3.13.1	CD	C	10.2132	UG/L	10	102 %R:		50	150
24985	LCSA 3.13.1	LI	C	614.8803	UG/L	500	123 %R:		50	150
24985	LCSA 3.13.1	MO	C	104.9414	UG/L	100	105 %R:		50	150
24985	LCSA 3.13.1	PB	C	11.3059	UG/L	10	113 %R:		50	150
24985	LCSA 3.13.1	SI	C	5.8877	MG/L	5	118 %R:		50	150
24985	LCSA 3.13.1	SN	C	91.6173	UG/L	100	92 %R:		50	150
24985	LCSA 3.13.1	SR	C	99.8525	UG/L	100	100 %R:		50	150
24985	LCSA 3.13.1	U	C	92.068	UG/L	100	92 %R:		50	150
25008	LCSA 3.13.2	AG	C	.10073	MG/L	0.1	101 %R:		80	120
25008	LCSA 3.13.2	AL	C	1.83657	MG/L	2	92 %R:		80	120
25008	LCSA 3.13.2	BA	C	1.88455	MG/L	2	94 %R:		80	120
25008	LCSA 3.13.2	CA	C	2.27523	MG/L	2.5	91 %R:		80	120
25008	LCSA 3.13.2	CO	C	.93179	MG/L	1	93 %R:		80	120
25008	LCSA 3.13.2	CR	C	.93405	MG/L	1	93 %R:		80	120
25008	LCSA 3.13.2	CU	C	.93564	MG/L	1	94 %R:		80	120
25008	LCSA 3.13.2	FE	C	2.0404	MG/L	2	102 %R:		80	120
25008	LCSA 3.13.2	MG	C	2.31769	MG/L	2.5	93 %R:		80	120
25008	LCSA 3.13.2	MN	C	.92513	MG/L	1	93 %R:		80	120
25008	LCSA 3.13.2	NI	C	.93279	MG/L	1	93 %R:		80	120
25008	LCSA 3.13.2	V	C	1.85022	MG/L	2	93 %R:		80	120
25008	LCSA 3.13.2	ZN	C	.93919	MG/L	1	94 %R:		80	120
24985	LCSA 3.13.3	AS	C	19.2934	UG/L	20	96 %R:		50	150

QC Code Legend

B	Blanks	K	Calibration Checks	S	Spikes
C	Control Samples	M	Matrix Spike Duplicates		
D	Duplicates	R	Surrogates		

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WS#	Lab#	Test ID	QC Code	Result	Units	True Added	-- QC Calculations -- QC1	-- QC Calculations -- QC2	Lower Limit	Upper Limit
25012	LCSA 3.13.3	B	C	115.3552	UG/L	100	115 %R:		50	150
24985	LCSA 3.13.3	BE	C	10.1369	UG/L	10	101 %R:		50	150
24985	LCSA 3.13.3	CD	C	9.6584	UG/L	10	97 %R:		50	150
24985	LCSA 3.13.3	LI	C	1144.0593	UG/L	1000	114 %R:		50	150
24985	LCSA 3.13.3	MO	C	106.2474	UG/L	100	106 %R:		50	150
24985	LCSA 3.13.3	PB	C	10.5414	UG/L	10	105 %R:		50	150
24985	LCSA 3.13.3	SI	C	6.2163	MG/L	5	124 %R:		50	150
24985	LCSA 3.13.3	SN	C	88.4726	UG/L	100	88 %R:		50	150
25012	LCSA 3.13.3	SR	C	1036.5488	UG/L	1000	104 %R:		50	150
24985	LCSA 3.13.3	SR	C	96.3522	UG/L	100	96 %R:		50	150
25012	LCSA 3.13.3	TI	C	1013.7687	UG/L	1000	101 %R:		50	150
24985	LCSA 3.13.3	U	C	90.0898	UG/L	100	90 %R:		50	150
25008	LCSA 3.15.2	AG	C	.09987	MG/L	0.1	100 %R:		80	120
25008	LCSA 3.15.2	BA	C	1.78316	MG/L	2	89 %R:		80	120
25008	LCSA 3.15.2	CR	C	.90298	MG/L	1	90 %R:		80	120
25008	LCSA 3.15.2	CU	C	.88849	MG/L	1	89 %R:		80	120
25008	LCSA 3.15.2	FE	C	1.80104	MG/L	2	90 %R:		80	120
25008	LCSA 3.15.2	NI	C	.88535	MG/L	1	89 %R:		80	120
25008	LCSA 3.15.2	ZN	C	.89492	MG/L	1	89 %R:		80	120
25012	LCSA 3.15.3	B	C	118.6396	UG/L	100	119 %R:		50	150
25012	LCSA 3.15.3	LI	C	567.5783	UG/L	500	114 %R:		50	150
25031	LCSA 3.15.3	SE	C	18.65	UG/L	20	93 %R:		70	125
24969	LCSA3.12.2	BA	C	1.87867	MG/L	2	94 %R:		80	120
24969	LCSA3.12.2	CR	C	.93772	MG/L	1	94 %R:		80	120
24969	LCSA3.12.2	MN	C	.93606	MG/L	1	94 %R:		80	120
24969	LCSA3.12.2	NI	C	.94695	MG/L	1	95 %R:		80	120
24969	LCSA3.12.2	PB	C	1.09036	MG/L	1.1	99 %R:		80	120
24969	LCSA3.13.1	AG	C	.11705	MG/L	0.1	117 %R:		80	120
24969	LCSA3.13.1	AL	C	2.03795	MG/L	2	102 %R:		80	120
24969	LCSA3.13.1	BA	C	2.102	MG/L	2	105 %R:		80	120
24969	LCSA3.13.1	CA	C	2.4475	MG/L	2.5	98 %R:		80	120
24969	LCSA3.13.1	CO	C	1.03136	MG/L	1	103 %R:		80	120
24969	LCSA3.13.1	CR	C	1.01535	MG/L	1	102 %R:		80	120
24969	LCSA3.13.1	CU	C	1.0316	MG/L	1	103 %R:		80	120
24969	LCSA3.13.1	FE	C	2.06762	MG/L	2	103 %R:		80	120
24969	LCSA3.13.1	K	C	10.59996	MG/L	10	106 %R:		80	120
24969	LCSA3.13.1	MG	C	2.62135	MG/L	2.5	105 %R:		80	120

QC Code Legend

B	Blanks	K	Calibration Checks	S	Spikes
C	Control Samples	M	Matrix Spike Duplicates		
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24969	LCSA3.13.1	MN	C	1.01641	MG/L	1	102 %R:		80	120
24969	LCSA3.13.1	NI	C	1.05232	MG/L	1	105 %R:		80	120
24969	LCSA3.13.1	V	C	2.03247	MG/L	2	102 %R:		80	120
24969	LCSA3.13.1	ZN	C	1.02543	MG/L	1	103 %R:		80	120
24988	LCSA3.14.2	CU	C	.951	MG/L	1	95 %R:		80	120
24988	LCSA3.14.2	FE	C	2.07224	MG/L	2	104 %R:		80	120
24969	LCSA3.9.2	CR	C	.89851	MG/L	1	90 %R:		80	120
24969	LCSA3.9.2	FE	C	1.82209	MG/L	2	91 %R:		80	120
24969	LCSA3.9.2	NI	C	.90997	MG/L	1	91 %R:		80	120
24969	LCSA3.9.2	PB	C	1.08026	MG/L	1.1	98 %R:		80	120
24969	LCSA3.9.2	ZN	C	.87813	MG/L	1	88 %R:		80	120
24969	LCSA3.9.2 RP	CR	C	.92151	MG/L	1	92 %R:		80	120
24969	LCSA3.9.2 RP	FE	C	1.89315	MG/L	2	95 %R:		80	120
24969	LCSA3.9.2 RP	NI	C	.9321	MG/L	1	93 %R:		80	120
24969	LCSA3.9.2 RP	PB	C	1.09175	MG/L	1.1	99 %R:		80	120
24969	LCSA3.9.2 RP	ZN	C	.90047	MG/L	1	90 %R:		80	120
25031	LCSS 3.13.4B	SE	C	76.8558951	MG/KG	86	89 %R:		70	125
25008	LCSS 3.15	BA	C	246.627760	MG/KG	280	88 %R:		70	120
24969	LCSS3.9.4A	AG	C	27.6653992	MG/KG	33.7	82 %R:		70	120
24969	LCSS3.9.4A	CD	C	108.950570	MG/KG	123	89 %R:		70	120
24969	LCSS3.9.4A	CR	C	141.524714	MG/KG	195.7	72 %R:		70	120
24969	LCSS3.9.4A	PB	C	113.836501	MG/KG	131	87 %R:		70	120
24988	LFB	AL	C	10.13716	MG/L	10	101 %R:		80	120
24969	LFB	AL	C	9.58331	MG/L	10	96 %R:		80	120
25012	LFB	B	C	117.4223	UG/L	100	117 %R:		50	150
24988	LFB	BA	C	10.08099	MG/L	10	101 %R:		80	120
24969	LFB	BA	C	9.39854	MG/L	10	94 %R:		80	120
24969	LFB	CA	C	23.83985	MG/L	25	95 %R:		80	120
24988	LFB	CA	C	25.32793	MG/L	25	101 %R:		80	120
24969	LFB	CD	C	1.28595	MG/L	1.25	103 %R:		80	120
24969	LFB	CO	C	2.38056	MG/L	2.5	95 %R:		80	120
24969	LFB	CR	C	.95164	MG/L	1	95 %R:		80	120
24969	LFB	CU	C	1.18093	MG/L	1.25	94 %R:		80	120
24988	LFB	CU	C	1.28716	MG/L	1.25	103 %R:		80	120
24969	LFB	FE	C	4.70924	MG/L	5	94 %R:		80	120
24988	LFB	FE	C	5.00009	MG/L	5	100 %R:		80	120
24969	LFB	K	C	24.54562	MG/L	25	98 %R:		80	120

QC Code Legend

B	Blanks	K	Calibration Checks	S	Spikes
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24988	LFB	K	C	25.14023	MG/L	25	101	%R:				80	120
25012	LFB	LI	C	57.4495	UG/L	50	115	%R:				50	150
24969	LFB	MG	C	24.42208	MG/L	25	98	%R:				80	120
24988	LFB	MG	C	25.93237	MG/L	25	104	%R:				80	120
24969	LFB	MN	C	2.37558	MG/L	2.5	95	%R:				80	120
24988	LFB	MN	C	2.52071	MG/L	2.5	101	%R:				80	120
24969	LFB	NA	C	23.97567	MG/L	25	96	%R:				80	120
24988	LFB	NA	C	25.64103	MG/L	25	103	%R:				80	120
24969	LFB	NI	C	2.39293	MG/L	2.5	96	%R:				80	120
24969	LFB	PB	C	2.45803	MG/L	2.5	98	%R:				80	120
25031	LFB	SE	C	11.79	UG/L	12.2	97	%R:				70	125
24998	LFB	SE	C	12.97	UG/L	12.2	106	%R:				70	125
24969	LFB	V	C	2.35459	MG/L	2.5	94	%R:				80	120
24988	LFB	V	C	2.53268	MG/L	2.5	101	%R:				80	120
24969	LFB	ZN	C	2.50351	MG/L	2.5	100	%R:				80	120
25012	MAR01-04500D	SR	D	4.2739	UG/L		19	%D	(<5 x MDL)				20
25012	MAR01-04500D	TI	D	255.0525	UG/L		2	%D					20
24958	MAR01-04891D	P	D	.6392	MG/L		4	%D					20
24958	MAR01-04891S	P	S	1.249	MG/L	0.5	127	%R:	*			75	125
24958	MAR01-05021D	P	D	.0586	MG/L		6	%D	(<5 x MDL)				20
24958	MAR01-05021S	P	S	.5712	MG/L	0.5	103	%R:				75	125
24969	MAR01-05177D	CU	D	0	UG/L		0	%D	(<5 x MDL)				20
24969	MAR01-05186S	CU	S	1152.81	UG/L	1250	92	%R:				75	125
24969	MAR01-05186S	ZN	S	2366.43	UG/L	2500	94	%R:				75	125
24969	MAR01-05193D	AG	D	.013728720	MG/KG		173	%D	* (<5 x MDL)				20
25008	MAR01-05193D	BA	D	20.6842105	MG/KG		10	%D					20
24969	MAR01-05193D	CR	D	3.58923668	MG/KG		11	%D	(<5 x MDL)				20
24969	MAR01-05193D	PB	D	1.48160351	MG/KG		40	%D	* (<5 x MDL)				20
24969	MAR01-05207D	PB	D	27.8504273	MG/KG		9	%D					20
24969	MAR01-05214M	PB	M	158.606255	MG/KG	120	85	%R:		10 %RPD		75	125
24969	MAR01-05214S	PB	S	142.911532	MG/KG	118	73	%R:	*			75	125
24969	MAR01-05253D	BA	D	55.99	UG/L		1	%D					20
24969	MAR01-05253D	CR	D	4.16	UG/L		61	%D	* (<5 x MDL)				20
24988	MAR01-05253D	CU	D	3.82	UG/L		40	%D	* (<5 x MDL)				20
24988	MAR01-05253D	FE	D	182.89	UG/L		4	%D	(<5 x MDL)				20
24969	MAR01-05253D	MN	D	22.39	UG/L		54	%D	* (<5 x MDL)				20
24969	MAR01-05253D	NI	D	6.62	UG/L		119	%D	* (<5 x MDL)				20

QC Code Legend

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C	Control Samples	M	Matrix Spike Duplicates		
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24969	MAR01-05253D	PB	D	77.46	UG/L		163	%D	*	(<5 x MDL)			20
24988	MAR01-05253D	ZN	D	28	UG/L		24	%D	*	(<5 x MDL)			20
24988	MAR01-05253S	CU	S	1202.63	UG/L	1250	96	%R:				80	120
24988	MAR01-05253S	FE	S	4837.61	UG/L	5000	93	%R:				80	120
24988	MAR01-05253S	ZN	S	2340	UG/L	2500	93	%R:				80	120
24969	MAR01-05256M	BA	M	1365	UG/L	2000	58	%R:	*		1 %RPD	80	120
24969	MAR01-05256M	CU	M	618.6	UG/L	1000	62	%R:	*		0 %RPD	80	120
24969	MAR01-05256M	FE	M	1232.69	UG/L	2000	61	%R:	*		1 %RPD	80	120
24969	MAR01-05256M	MN	M	613.63	UG/L	1000	60	%R:	*		0 %RPD	80	120
24969	MAR01-05256M	NI	M	616.91	UG/L	1000	60	%R:	*		2 %RPD	80	120
24969	MAR01-05256M	PB	M	726.61	UG/L	1000	72	%R:	*		2 %RPD	80	120
24969	MAR01-05256M	ZN	M	626.4	UG/L	1000	63	%R:	*		0 %RPD	80	120
24969	MAR01-05256S	BA	S	1353.14	UG/L	2000	58	%R:	*			80	120
24969	MAR01-05256S	CU	S	618.6	UG/L	1000	62	%R:	*			80	120
24969	MAR01-05256S	FE	S	1222.43	UG/L	2000	61	%R:	*			80	120
24969	MAR01-05256S	MN	S	614.16	UG/L	1000	60	%R:	*			80	120
24969	MAR01-05256S	NI	S	627.1	UG/L	1000	61	%R:	*			80	120
24969	MAR01-05256S	PB	S	710.46	UG/L	1000	70	%R:	*			80	120
24969	MAR01-05256S	ZN	S	626.06	UG/L	1000	62	%R:	*			80	120
24958	MAR01-05427D	P	D	.2694	MG/L		1	%D					20
24958	MAR01-05427S	P	S	.902	MG/L	0.5	126	%R:	*			75	125
24969	MAR01-05435D	AG	D	0	UG/L		200	%D	*	(<5 x MDL)			20
24969	MAR01-05435D	AG	D	7.4	UG/L		582	%D	*	(<5 x MDL)			20
24969	MAR01-05435D	AL	D	11.85	UG/L		185	%D	*	(<5 x MDL)			20
24969	MAR01-05435D	AL	D	598.25	UG/L		18	%D		(<5 x MDL)			20
24969	MAR01-05435D	BA	D	20.8	UG/L		53	%D	*	(<5 x MDL)			20
24969	MAR01-05435D	BA	D	4.35	UG/L		110	%D	*	(<5 x MDL)			20
24969	MAR01-05435D	CA	D	461.64825	MG/L		1	%D					20
24969	MAR01-05435D	CA	D	489.608	MG/L		9	%D					20
24969	MAR01-05435D	CO	D	0	UG/L		0	%D		(<5 x MDL)			20
24969	MAR01-05435D	CO	D	7.1	UG/L		200	%D	*	(<5 x MDL)			20
24969	MAR01-05435D	CR	D	15.55	UG/L		121	%D	*	(<5 x MDL)			20
24969	MAR01-05435D	CR	D	0	UG/L		200	%D	*	(<5 x MDL)			20
24969	MAR01-05435D	CU	D	0	UG/L		0	%D		(<5 x MDL)			20
24969	MAR01-05435D	CU	D	0	UG/L		0	%D		(<5 x MDL)			20
24969	MAR01-05435D	FE	D	20.95	UG/L		68	%D	*	(<5 x MDL)			20
24969	MAR01-05435D	FE	D	417.8	UG/L		0	%D		(<5 x MDL)			20

QC Code Legend

B	Blanks	K	Calibration Checks	S	Spikes
C	Control Samples	M	Matrix Spike Duplicates		
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24969	MAR01-05435D	MG	D	1937.9977	UG/L		0	%D					20
24969	MAR01-05435D	MG	D	2021.69735	UG/L		12	%D					20
24969	MAR01-05435D	MN	D	82.6	UG/L		3	%D	(<5 x MDL)				20
24969	MAR01-05435D	MN	D	97.95	UG/L		0	%D	(<5 x MDL)				20
24969	MAR01-05435D	NI	D	0	UG/L		200	%D *	(<5 x MDL)				20
24969	MAR01-05435D	NI	D	102.25	UG/L		209	%D *	(<5 x MDL)				20
24969	MAR01-05435D	V	D	.25	UG/L		204	%D *	(<5 x MDL)				20
24969	MAR01-05435D	V	D	0	UG/L		0	%D	(<5 x MDL)				20
24969	MAR01-05435D	ZN	D	10.2	UG/L		51	%D *	(<5 x MDL)				20
24969	MAR01-05435D	ZN	D	0	UG/L		200	%D *	(<5 x MDL)				20
24969	MAR01-05443D	AG	D	0	UG/L		0	%D	(<5 x MDL)				20
24969	MAR01-05443D	AL	D	0	UG/L		200	%D *	(<5 x MDL)				20
24985	MAR01-05443D	AS	D	.2301	UG/L		0	%D	(<5 x MDL)				20
25012	MAR01-05443D	B	D	214.072	UG/L		22	%D *	(<5 x MDL)				20
24969	MAR01-05443D	BA	D	43.77	UG/L		1	%D	(<5 x MDL)				20
24969	MAR01-05443D	CA	D	18.67419	MG/L		2	%D					20
24985	MAR01-05443D	CD	D	0	UG/L		200	%D *	(<5 x MDL)				20
24969	MAR01-05443D	CO	D	.89	UG/L		78	%D *	(<5 x MDL)				20
24969	MAR01-05443D	CR	D	.49	UG/L		141	%D *	(<5 x MDL)				20
24969	MAR01-05443D	CU	D	0	UG/L		0	%D	(<5 x MDL)				20
24969	MAR01-05443D	FE	D	42.88	UG/L		7	%D	(<5 x MDL)				20
24969	MAR01-05443D	K	D	50.40487	MG/L		2	%D					20
24985	MAR01-05443D	LI	D	37.113	UG/L		2	%D	(<5 x MDL)				20
24969	MAR01-05443D	MG	D	2.68746	MG/L		3	%D					20
24969	MAR01-05443D	MN	D	4.06	UG/L		14	%D	(<5 x MDL)				20
24985	MAR01-05443D	MO	D	36.8138	UG/L		0	%D	(<5 x MDL)				20
24969	MAR01-05443D	NI	D	14.18	UG/L		+03	%D *	(<5 x MDL)				20
24985	MAR01-05443D	PB	D	1.1546	UG/L		1	%D	(<5 x MDL)				20
24985	MAR01-05443D	SI	D	37.5042	MG/L		1	%D					20
24985	MAR01-05443D	SN	D	5.7117	UG/L		4	%D	(<5 x MDL)				20
24985	MAR01-05443D	SR	D	211.002	UG/L		5	%D					20
24985	MAR01-05443D	U	D	3.2108	UG/L		1	%D	(<5 x MDL)				20
24969	MAR01-05443D	V	D	25.1	UG/L		29	%D *	(<5 x MDL)				20
24969	MAR01-05443D	ZN	D	8.94	UG/L		19	%D	(<5 x MDL)				20
24985	MAR01-05444M	AS	M	936.2063	UG/L	1000	92	%R:		0	%RPD	75	125
24985	MAR01-05444M	BE	M	456.6255	UG/L	500	91	%R:		2	%RPD	75	125
24985	MAR01-05444M	CD	M	437.4182	UG/L	500	87	%R:		2	%RPD	75	125

QC Code Legend

B	Blanks	K	Calibration Checks	S	Spikes
C	Control Samples	M	Matrix Spike Duplicates		
D	Duplicates	R	Surrogates		

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WS#	Lab#	Test ID	QC Code	Result	Units	True Added	-- QC Calculations -- QC1			-- QC Calculations -- QC2	Lower Limit	Upper Limit
24985	MAR01-05444M	LI	M	2712.4371	UG/L	2000	122	%R:		1 %RPD	75	125
24985	MAR01-05444M	MO	M	5184.3274	UG/L	5000	100	%R:		2 %RPD	75	125
24985	MAR01-05444M	PB	M	428.6756	UG/L	500	86	%R:		3 %RPD	75	125
24985	MAR01-05444M	SI	M	18.4258	MG/L	5	109	%R:		1 %RPD	75	125
24985	MAR01-05444M	SR	M	10670.4777	UG/L	5000	100	%R:		2 %RPD	75	125
24985	MAR01-05444M	U	M	4833.0487	UG/L	5000	97	%R:		3 %RPD	75	125
24985	MAR01-05444S	AS	S	932.379	UG/L	1000	92	%R:			75	125
24985	MAR01-05444S	BE	S	446.7487	UG/L	500	89	%R:			75	125
24985	MAR01-05444S	CD	S	428.9502	UG/L	500	86	%R:			75	125
24985	MAR01-05444S	LI	S	2679.5818	UG/L	2000	120	%R:			75	125
24985	MAR01-05444S	MO	S	5072.3537	UG/L	5000	98	%R:			75	125
24985	MAR01-05444S	PB	S	416.2162	UG/L	500	83	%R:			75	125
24985	MAR01-05444S	SI	S	18.1515	MG/L	5	104	%R:			75	125
24985	MAR01-05444S	SR	S	10420.4568	UG/L	5000	95	%R:			75	125
24985	MAR01-05444S	U	S	4710.0137	UG/L	5000	94	%R:			75	125
24969	MAR01-05446S	AG	S	1032.12	UG/L	1000	103	%R:			75	125
24969	MAR01-05446S	AL	S	9491.27	UG/L	10000	95	%R:			75	125
24969	MAR01-05446S	CO	S	2244.1	UG/L	2500	90	%R:			75	125
24969	MAR01-05446S	CR	S	911.09	UG/L	1000	90	%R:			75	125
24969	MAR01-05446S	CU	S	1135.23	UG/L	1250	91	%R:			75	125
24969	MAR01-05446S	FE	S	4505.89	UG/L	5000	90	%R:			75	125
24969	MAR01-05446S	K	S	35.54278	MG/L	25	98	%R:			75	125
24969	MAR01-05446S	MN	S	2272.4	UG/L	2500	90	%R:			75	125
24969	MAR01-05446S	NI	S	2260.11	UG/L	2500	89	%R:			75	125
24969	MAR01-05446S	V	S	2338.91	UG/L	2500	93	%R:			75	125
24969	MAR01-05446S	ZN	S	2520.9	UG/L	2500	94	%R:			75	125
24969	MAR01-05451D	AG	D	3.7	UG/L		200	%D	* (<5 x MDL)			20
24969	MAR01-05451D	AL	D	15.78	UG/L		51	%D	* (<5 x MDL)			20
24969	MAR01-05451D	BA	D	4.6	UG/L		97	%D	* (<5 x MDL)			20
24969	MAR01-05451D	CA	D	489.32537	MG/L		5	%D				20
24969	MAR01-05451D	CO	D	0	UG/L		0	%D	(<5 x MDL)			20
24969	MAR01-05451D	CR	D	2.85	UG/L		32	%D	* (<5 x MDL)			20
24969	MAR01-05451D	CU	D	0	UG/L		0	%D	(<5 x MDL)			20
24969	MAR01-05451D	FE	D	4.58	UG/L		64	%D	* (<5 x MDL)			20
24969	MAR01-05451D	K	D	22.07525	MG/L		20	%D				20
24969	MAR01-05451D	MG	D	275.43902	MG/L		7	%D				20
24969	MAR01-05451D	MN	D	217.81	UG/L		5	%D				20

QC Code Legend

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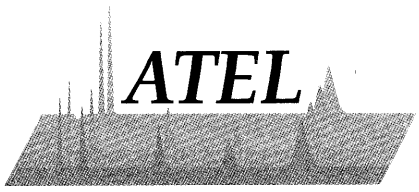

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WS#	Lab#	Test ID	QC Code	Result	Units	True Added	-- QC Calculations -- QC1			-- QC Calculations -- QC2		Lower Limit	Upper Limit
24969	MAR01-05451D	NA	D	254.14617	MG/L		19	%D					20
24969	MAR01-05451D	NI	D	15.82	UG/L		43	%D	* (<5 x MDL)				20
24969	MAR01-05451D	V	D	11.82	UG/L		31	%D	* (<5 x MDL)				20
24969	MAR01-05451D	ZN	D	36.56	UG/L		19	%D	(<5 x MDL)				20
24969	MAR01-05453D	AG	D	0	UG/L		0	%D	(<5 x MDL)				20
24969	MAR01-05453D	AL	D	29.48	UG/L		6	%D	(<5 x MDL)				20
24985	MAR01-05453D	AS	D	7.6288	UG/L		13	%D	(<5 x MDL)				20
24969	MAR01-05453D	BA	D	4.29	UG/L		38	%D	* (<5 x MDL)				20
24985	MAR01-05453D	BE	D	0	UG/L		13	%D	(<5 x MDL)				20
24985	MAR01-05453D	CD	D	.0711	UG/L		200	%D	* (<5 x MDL)				20
24969	MAR01-05453D	CO	D	0	UG/L		200	%D	* (<5 x MDL)				20
24969	MAR01-05453D	CR	D	.75	UG/L		122	%D	* (<5 x MDL)				20
24969	MAR01-05453D	CU	D	0	UG/L		0	%D	(<5 x MDL)				20
24969	MAR01-05453D	FE	D	2.99	UG/L		30	%D	* (<5 x MDL)				20
24969	MAR01-05453D	K	D	19.68457	MG/L		19	%D					20
24985	MAR01-05453D	LI	D	132.2249	UG/L		5	%D	(<5 x MDL)				20
24969	MAR01-05453D	MG	D	251.76512	MG/L		15	%D					20
24969	MAR01-05453D	MN	D	202.77	UG/L		11	%D					20
24985	MAR01-05453D	MO	D	84.3855	UG/L		5	%D	(<5 x MDL)				20
24969	MAR01-05453D	NI	D	20.23	UG/L		19	%D	(<5 x MDL)				20
24985	MAR01-05453D	PB	D	.6274	UG/L		200	%D	* (<5 x MDL)				20
24985	MAR01-05453D	SI	D	22.2818	MG/L		3	%D					20
24985	MAR01-05453D	SN	D	13.6261	UG/L		113	%D	* (<5 x MDL)				20
24985	MAR01-05453D	SR	D	10572.2494	UG/L		3	%D					20
24985	MAR01-05453D	U	D	143.4501	UG/L		3	%D					20
24969	MAR01-05453D	V	D	31.39	UG/L		7	%D	(<5 x MDL)				20
24969	MAR01-05453D	ZN	D	28.73	UG/L		14	%D	(<5 x MDL)				20
24985	MAR01-05454M	AS	M	886.305	UG/L	1000	88	%R:		1	%RPD	75	125
24985	MAR01-05454M	BE	M	452.4233	UG/L	500	90	%R:		1	%RPD	75	125
24985	MAR01-05454M	CD	M	431.8292	UG/L	500	86	%R:		2	%RPD	75	125
24985	MAR01-05454M	LI	M	2479.0239	UG/L	2000	121	%R:		1	%RPD	75	125
24985	MAR01-05454M	MO	M	4653.1159	UG/L	5000	93	%R:		2	%RPD	75	125
24985	MAR01-05454M	PB	M	424.1502	UG/L	500	85	%R:		3	%RPD	75	125
24985	MAR01-05454M	SI	M	23.4007	MG/L	5	94	%R:		0	%RPD	75	125
24985	MAR01-05454M	SN	M	3799.2083	UG/L	5000	74	%R:	*	2	%RPD	75	125
24985	MAR01-05454M	SR	M	8371.5157	UG/L	5000	93	%R:		2	%RPD	75	125
24985	MAR01-05454M	U	M	4758.6572	UG/L	5000	95	%R:		0	%RPD	75	125

QC Code Legend

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WS#	Lab#	Test ID	QC Code	Result	Units	True Added	-- QC Calculations -- QC1			-- QC Calculations -- QC2		Lower Limit	Upper Limit
24969	MAR01-05454S	AG	S	970.22	UG/L	1000	97	%R:				75	125
24969	MAR01-05454S	AL	S	8346.63	UG/L	10000	83	%R:				75	125
24985	MAR01-05454S	AS	S	895.0412	UG/L	1000	89	%R:				75	125
24985	MAR01-05454S	BE	S	447.8832	UG/L	500	89	%R:				75	125
24985	MAR01-05454S	CD	S	439.5051	UG/L	500	88	%R:				75	125
24969	MAR01-05454S	CO	S	2026.75	UG/L	2500	81	%R:				75	125
24969	MAR01-05454S	CR	S	815.97	UG/L	1000	81	%R:				75	125
24969	MAR01-05454S	CU	S	1013.97	UG/L	1000	101	%R:				75	125
24969	MAR01-05454S	FE	S	4047.51	UG/L	5000	81	%R:				75	125
24969	MAR01-05454S	K	S	36.73812	MG/L	25	85	%R:				75	125
24985	MAR01-05454S	LI	S	2456.875	UG/L	2000	120	%R:				75	125
24969	MAR01-05454S	MN	S	2043.43	UG/L	2500	81	%R:				75	125
24985	MAR01-05454S	MO	S	4573.7703	UG/L	5000	91	%R:				75	125
24969	MAR01-05454S	NI	S	2064.35	UG/L	2500	82	%R:				75	125
24985	MAR01-05454S	PB	S	437.1877	UG/L	500	87	%R:				75	125
24985	MAR01-05454S	SI	S	23.4285	MG/L	5	95	%R:				75	125
24985	MAR01-05454S	SN	S	3705.6272	UG/L	5000	72	%R:	*			75	125
24985	MAR01-05454S	SR	S	8579.0808	UG/L	5000	97	%R:				75	125
24985	MAR01-05454S	U	S	4754.983	UG/L	5000	95	%R:				75	125
24969	MAR01-05454S	V	S	2069.85	UG/L	2500	82	%R:				75	125
24969	MAR01-05454S	ZN	S	2120.58	UG/L	2500	85	%R:				75	125
24985	MAR01-05456MA	S	M	168.2037	UG/L	20	104	%R:		3	%RPD	75	125
24985	MAR01-05456MC	D	M	9.2505	UG/L	10	92	%R:		3	%RPD	75	125
24985	MAR01-05456MP	B	M	9.0951	UG/L	10	91	%R:		3	%RPD	75	125
24985	MAR01-05456S	AS	S	174.0683	UG/L	20	134	%R:	*			75	125
24985	MAR01-05456S	CD	S	8.9589	UG/L	10	89	%R:				75	125
24985	MAR01-05456S	PB	S	8.8066	UG/L	10	88	%R:				75	125
25008	MAR01-05457MA	G	M	103.09	UG/L	100	102	%R:		2	%RPD	80	120
25008	MAR01-05457MB	A	M	1955.83	UG/L	2000	95	%R:		1	%RPD	80	120
25008	MAR01-05457MC	R	M	945.26	UG/L	1000	94	%R:		2	%RPD	80	120
25008	MAR01-05457S	AG	S	104.66	UG/L	100	104	%R:				80	120
25008	MAR01-05457S	BA	S	1935.22	UG/L	2000	94	%R:				80	120
25008	MAR01-05457S	CR	S	928.17	UG/L	1000	93	%R:				80	120
24985	MAR01-05460D	AS	D	7.9785	UG/L		2	%D	(<5 x MDL)				20
24985	MAR01-05460D	CD	D	.2085	UG/L		7	%D	(<5 x MDL)				20
24985	MAR01-05460D	PB	D	5.7328	UG/L		1	%D	(<5 x MDL)				20
25008	MAR01-05468S	AG	S	985.74	UG/L	1000	98	%R:				75	125

QC Code Legend

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25008	MAR01-05468S	BA	S	8912.09	UG/L	10000	88	%R:				75	125
25008	MAR01-05468S	CR	S	880.37	UG/L	1000	88	%R:				75	125
25008	MAR01-05472D	AG	D	-1.59	UG/L		576	%D	*	(<5 x MDL)			20
25008	MAR01-05472D	BA	D	34.29	UG/L		0	%D		(<5 x MDL)			20
25008	MAR01-05472D	CR	D	1.96	UG/L		55	%D	*	(<5 x MDL)			20
24998	MAR01-05472S	SE	S	133.6	UG/L	122	110	%R:				40	125
24958	MAR01-05473D	P	D	.1332	MG/L		56	%D	*				20
24958	MAR01-05473S	P	S	.8112	MG/L	0.5	115	%R:				75	125
24988	MAR01-05476D	AL	D	209.82	UG/L		20	%D		(<5 x MDL)			20
24988	MAR01-05476D	BA	D	5.21	UG/L		7	%D		(<5 x MDL)			20
24988	MAR01-05476D	CU	D	0	UG/L		0	%D		(<5 x MDL)			20
24988	MAR01-05476D	FE	D	70.33	UG/L		9	%D		(<5 x MDL)			20
24988	MAR01-05476D	K	D	53.77312	MG/L		0	%D					20
24988	MAR01-05476D	MN	D	25.61	UG/L		2	%D		(<5 x MDL)			20
24988	MAR01-05476D	V	D	33.33	UG/L		34	%D	*	(<5 x MDL)			20
25008	MAR01-05477D	AG	D	11.9	UG/L		152	%D	*	(<5 x MDL)			20
25008	MAR01-05477D	AL	D	531.85	UG/L		13	%D		(<5 x MDL)			20
25008	MAR01-05477D	BA	D	18.85	UG/L		30	%D	*	(<5 x MDL)			20
25008	MAR01-05477D	CA	D	346.42085	MG/L		9	%D					20
25008	MAR01-05477D	CO	D	0	UG/L		9	%D		(<5 x MDL)			20
25008	MAR01-05477D	CR	D	0	UG/L		9	%D		(<5 x MDL)			20
25008	MAR01-05477D	CU	D	0	UG/L		9	%D		(<5 x MDL)			20
25008	MAR01-05477D	FE	D	639.55	UG/L		12	%D		(<5 x MDL)			20
25008	MAR01-05477D	MG	D	417.0813	MG/L		6	%D					20
25008	MAR01-05477D	MN	D	82.6	UG/L		18	%D		(<5 x MDL)			20
25008	MAR01-05477D	NI	D	11.1	UG/L		55	%D	*	(<5 x MDL)			20
25008	MAR01-05477D	ZN	D	11.2	UG/L		28	%D	*	(<5 x MDL)			20
24988	MAR01-05477S	AL	S	10242.53	UG/L	10000	101	%R:				80	120
24988	MAR01-05477S	CU	S	1281.41	UG/L	1250	102	%R:				80	120
24988	MAR01-05477S	FE	S	4695.22	UG/L	5000	94	%R:				80	120
24988	MAR01-05477S	K	S	86.67506	MG/L	25	100	%R:				80	120
24988	MAR01-05477S	MN	S	2381.41	UG/L	2500	93	%R:				80	120
24988	MAR01-05477S	V	S	2455.98	UG/L	2500	97	%R:				80	120
25008	MAR01-05478D	AG	D	0	UG/L		200	%D	*	(<5 x MDL)			20
25008	MAR01-05478D	AL	D	215.13	UG/L		9	%D		(<5 x MDL)			20
25008	MAR01-05478D	BA	D	10.02	UG/L		13	%D		(<5 x MDL)			20
25008	MAR01-05478D	CA	D	384.90185	MG/L		0	%D					20

QC Code Legend

B	Blanks	K	Calibration Checks	S	Spikes
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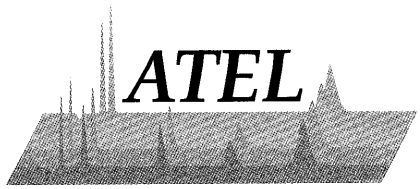

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- QUALITY CONTROL REPORT -

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WS#	Lab#	Test ID	QC Code	Result	Units	True Added	-- QC Calculations -- QC1			-- QC Calculations -- QC2		Lower Limit	Upper Limit
25008	MAR01-05478D	CO	D	0	UG/L		0	%D	(<5 x MDL)				20
25008	MAR01-05478D	CR	D	0	UG/L		200	%D *	(<5 x MDL)				20
25008	MAR01-05478D	CU	D	0	UG/L		200	%D *	(<5 x MDL)				20
25008	MAR01-05478D	FE	D	252.48	UG/L		8	%D					20
25008	MAR01-05478D	MG	D	462.43161	MG/L		1	%D					20
24988	MAR01-05478D	MG	D	498	MG/L		2	%D					20
25008	MAR01-05478D	MN	D	66.8	UG/L		0	%D					20
24988	MAR01-05478D	NA	D	2540.7172	MG/L		3	%D					20
25008	MAR01-05478D	NI	D	11.1	UG/L		36	%D *	(<5 x MDL)				20
25008	MAR01-05478D	V	D	29.82	UG/L		12	%D	(<5 x MDL)				20
25008	MAR01-05478D	ZN	D	14.47	UG/L		24	%D *	(<5 x MDL)				20
24998	MAR01-05478S	SE	S	115.6	UG/L	122	71	%R:				40	120
24985	MAR01-05479D	AS	D	.7128	UG/L		200	%D *	(<5 x MDL)				20
25012	MAR01-05479D	B	D	22.842	UG/L		23	%D *	(<5 x MDL)				20
25012	MAR01-05479D	B	D	48.808	UG/L		52	%D *	(<5 x MDL)				20
24985	MAR01-05479D	BE	D	0	UG/L		1	%D	(<5 x MDL)				20
24985	MAR01-05479D	CD	D	.1339	UG/L		61	%D *	(<5 x MDL)				20
24985	MAR01-05479D	MO	D	6.4246	UG/L		1	%D	(<5 x MDL)				20
24985	MAR01-05479D	PB	D	0	UG/L		61	%D *	(<5 x MDL)				20
24998	MAR01-05479D	SE	D	12.1	UG/L		138	%D *	(<5 x MDL)				20
24985	MAR01-05479D	SI	D	21.5585	MG/L		0	%D					20
24985	MAR01-05479D	SN	D	4.0295	UG/L		84	%D *	(<5 x MDL)				20
24985	MAR01-05480M	AS	M	19.1066	UG/L	20	91	%R:		3	%RPD	75	125
25012	MAR01-05480M	B	M	10879.248	UG/L	10000	109	%R:		194	%RPD *	75	125
25012	MAR01-05480M	B	M	145.446	UG/L	100	104	%R:		6	%RPD	75	125
24985	MAR01-05480M	BE	M	10.3902	UG/L	10	104	%R:		6	%RPD	75	125
24985	MAR01-05480M	CD	M	9.6499	UG/L	10	96	%R:		1	%RPD	75	125
24985	MAR01-05480M	MO	M	109.5617	UG/L	100	102	%R:		3	%RPD	75	125
24985	MAR01-05480M	PB	M	9.6173	UG/L	10	96	%R:		5	%RPD	75	125
24998	MAR01-05480M	SE	M	20	UG/L	20	69	%R: *		2	%RPD	80	120
24985	MAR01-05480M	SI	M	29.8572	MG/L	10	95	%R:		3	%RPD	75	125
24985	MAR01-05480M	SR	M	289.6876	UG/L	100	91	%R:		4	%RPD	75	125
24985	MAR01-05480S	AS	S	19.638	UG/L	20	94	%R:				75	125
25012	MAR01-05480S	B	S	11133.11	UG/L	10000	111	%R:				75	125
25012	MAR01-05480S	B	S	154.894	UG/L	100	113	%R:				75	125
24985	MAR01-05480S	BE	S	9.792	UG/L	10	98	%R:				75	125
24985	MAR01-05480S	CD	S	9.5399	UG/L	10	95	%R:				75	125

QC Code Legend

B	Blanks	K	Calibration Checks	S	Spikes
C	Control Samples	M	Matrix Spike Duplicates		
D	Duplicates	R	Surrogates		

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24985	MAR01-05480S	MO	S	105.9694	UG/L	100	98	%R:				75	125
24985	MAR01-05480S	PB	S	9.1638	UG/L	10	92	%R:				75	125
24998	MAR01-05480S	SE	S	20.4	UG/L	20	71	%R:	*			80	120
24985	MAR01-05480S	SI	S	28.9439	MG/L	10	86	%R:				75	125
24985	MAR01-05480S	SR	S	279.3905	UG/L	100	81	%R:				75	125
25008	MAR01-05481MA	AG	M	108.71	UG/L	100	109	%R:		4	%RPD	80	120
25008	MAR01-05481MA	AL	M	2067.79	UG/L	2000	103	%R:		8	%RPD	80	120
25008	MAR01-05481MB	BA	M	2085.14	UG/L	2000	102	%R:		6	%RPD	80	120
25008	MAR01-05481MC	CO	M	1000.76	UG/L	1000	100	%R:		6	%RPD	80	120
25008	MAR01-05481MC	CR	M	1004.91	UG/L	1000	100	%R:		5	%RPD	80	120
25008	MAR01-05481MF	FE	M	2050.53	UG/L	2000	97	%R:		6	%RPD	80	120
25008	MAR01-05481MM	MG	M	8.92286	MG/L	2.5	97	%R:		5	%RPD	80	120
25008	MAR01-05481MM	MN	M	993.68	UG/L	1000	99	%R:		6	%RPD	80	120
25008	MAR01-05481MN	NI	M	985.23	UG/L	1000	98	%R:		6	%RPD	80	120
25008	MAR01-05481MV		M	1993.82	UG/L	2000	99	%R:		5	%RPD	80	120
25008	MAR01-05481MZ	N	M	1009.55	UG/L	1000	101	%R:		6	%RPD	80	120
25008	MAR01-05481S	AG	S	104.7	UG/L	100	105	%R:				80	120
25008	MAR01-05481S	AL	S	1907.71	UG/L	2000	95	%R:				80	120
25008	MAR01-05481S	BA	S	1967.71	UG/L	2000	96	%R:				80	120
25008	MAR01-05481S	CO	S	941.29	UG/L	1000	94	%R:				80	120
25008	MAR01-05481S	CR	S	951.13	UG/L	1000	95	%R:				80	120
25008	MAR01-05481S	FE	S	1928.96	UG/L	2000	91	%R:				80	120
25008	MAR01-05481S	MG	S	8.488	MG/L	2.5	79	%R:	*			80	120
25008	MAR01-05481S	MN	S	935.1	UG/L	1000	93	%R:				80	120
25008	MAR01-05481S	NI	S	924.11	UG/L	1000	92	%R:				80	120
25008	MAR01-05481S	V	S	1904.79	UG/L	2000	95	%R:				80	120
25008	MAR01-05481S	ZN	S	954.05	UG/L	1000	95	%R:				80	120
24969	MAR01-05482D	AG	D	0	UG/L		200	%D	*	(<5 x MDL)			20
24969	MAR01-05482D	CA	D	28.2	MG/L		0	%D					20
24969	MAR01-05482D	CO	D	0	UG/L		200	%D	*	(<5 x MDL)			20
24969	MAR01-05482D	CR	D	0	UG/L		200	%D	*	(<5 x MDL)			20
24969	MAR01-05482D	MN	D	15.49	UG/L		0	%D		(<5 x MDL)			20
24969	MAR01-05482D	NI	D	1.66	UG/L		125	%D	*	(<5 x MDL)			20
24969	MAR01-05482D	ZN	D	1.82	UG/L		85	%D	*	(<5 x MDL)			20
24998	MAR01-05482S	SE	S	119	UG/L	122	98	%R:				40	120
24985	MAR01-05483D	AS	D	.1511	UG/L		200	%D	*	(<5 x MDL)			20
24985	MAR01-05483D	BE	D	.1063	UG/L		200	%D	*	(<5 x MDL)			20

QC Code Legend

B	Blanks	K	Calibration Checks	S	Spikes
C	Control Samples	M	Matrix Spike Duplicates		
D	Duplicates	R	Surrogates		

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24985	MAR01-05483D	CD	D	.1367	UG/L		7	%D	(<5 x MDL)				20
24985	MAR01-05483D	MO	D	12.1218	UG/L		2	%D	(<5 x MDL)				20
24958	MAR01-05483D	P	D	.0586	MG/L		12	%D	(<5 x MDL)				20
24985	MAR01-05483D	PB	D	.0172	UG/L		200	%D *	(<5 x MDL)				20
24985	MAR01-05483D	SI	D	19.4961	MG/L		8	%D					20
24985	MAR01-05483D	SN	D	9.1333	UG/L		66	%D *	(<5 x MDL)				20
24985	MAR01-05483D	SR	D	218.781	UG/L		1	%D					20
24969	MAR01-05483S	AG	S	1033.57	UG/L	1000	103	%R:				75	125
24969	MAR01-05483S	CA	S	51.23775	MG/L	25	92	%R:				75	125
24969	MAR01-05483S	CO	S	2420.43	UG/L	2500	97	%R:				75	125
24969	MAR01-05483S	CR	S	944.36	UG/L	1000	94	%R:				75	125
24969	MAR01-05483S	MN	S	2319.82	UG/L	2500	92	%R:				75	125
24969	MAR01-05483S	NI	S	2462.37	UG/L	2500	98	%R:				75	125
24958	MAR01-05483S	P	S	.555	MG/L	0.5	101	%R:				75	125
24969	MAR01-05483S	ZN	S	2594.65	UG/L	2500	104	%R:				75	125
25012	MAR01-05539D	AS	D	.172556053	PPM		25	%D *	(<5 x MDL)				20
25012	MAR01-05539D	CD	D	.187946188	PPM		85	%D *	(<5 x MDL)				20
25012	MAR01-05539D	CR	D	1.56664573	PPM		28	%D *	(<5 x MDL)				20
25012	MAR01-05546M	AS	M	90.9145522	PPM	93	98	%R:		3	%RPD	75	125
25012	MAR01-05546M	CD	M	44.3192444	PPM	47	94	%R:		6	%RPD	75	125
25012	MAR01-05546M	CR	M	571.140475	PPM	465	123	%R:		4	%RPD	75	125
25012	MAR01-05546M	PB	M	140.094207	PPM	140	98	%R:		7	%RPD	75	125
25012	MAR01-05546S	AS	S	93.4147312	PPM	96	97	%R:				75	125
25012	MAR01-05546S	CD	S	46.8462092	PPM	48	97	%R:				75	125
25012	MAR01-05546S	CR	S	593.148896	PPM	480	123	%R:				75	125
25012	MAR01-05546S	PB	S	150.347370	PPM	144	102	%R:				75	125
25012	MAR01-05566M	LI	M	399.0079	UG/L	250	116	%R:		3	%RPD	75	125
25012	MAR01-05566S	LI	S	410.7863	UG/L	250	120	%R:				75	125
25012	MAR01-05568D	LI	D	112.2503	UG/L		2	%D	(<5 x MDL)				20
25012	MAR01-05632D	B	D	5.364	UG/L		33	%D *	(<5 x MDL)				20
25012	MAR01-05633M	B	M	10719.396	UG/L	10000	107	%R:		0	%RPD	75	125
25012	MAR01-05633S	B	S	10681.756	UG/L	10000	107	%R:				75	125
25012	MAR01-05645D	B	D	1151.252	UG/L		4	%D					20
25008	MAR01-05763D	AG	D	550.79	UG/L		0	%D					20
25031	MAR01-05768S	SE	S	58.25	UG/L	61	89	%R:				40	125
25031	MAR01-05770M	SE	M	10.19	UG/L	20	48	%R: *		1	%RPD	80	120
25031	MAR01-05770S	SE	S	10.26	UG/L	20	49	%R: *				80	120

QC Code Legend

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25031	MAR01-05774S	SE	S	61.2	UG/L	61	98	%R:			40	125
25008	MAR01-05775M	AG	M	100.16	UG/L	100	100	%R:		2 %RPD	80	120
25008	MAR01-05775M	BA	M	1853.03	UG/L	2000	90	%R:		1 %RPD	80	120
25008	MAR01-05775M	CR	M	858.97	UG/L	1000	86	%R:		0 %RPD	80	120
25008	MAR01-05775S	AG	S	98.57	UG/L	100	99	%R:			80	120
25008	MAR01-05775S	BA	S	1843.35	UG/L	2000	90	%R:			80	120
25008	MAR01-05775S	CR	S	859.25	UG/L	1000	86	%R:			80	120
25031	MAR01-05776S	SE	S	59.5	UG/L	61	95	%R:			40	125
25031	MAR01-05778D	SE	D	8.95	UG/L		100	%D	* (<5 x MDL)			20
25031	MAR01-05783D	SE	D	6.39853747	MG/KG		127	%D	* (<5 x MDL)			20
25031	MAR01-05949S	SE	S	9.57	UG/L	12.2	78	%R:			40	125
25012	OIL 3.15.4B	AS	C	90.3237083	PPM	90	100	%R:			50	150
25012	OIL 3.15.4B	CD	C	45.0533213	PPM	45	100	%R:			50	150
25012	OIL 3.15.4B	CR	C	565.252925	PPM	450	126	%R:			50	150
25012	OIL 3.15.4B	PB	C	136.138541	PPM	135	101	%R:			50	150
25008	PBS 3.15	BA	C	.00065	MG/L							
25012	PBS 3.15.4B	AS	C	.7455	UG/L							
25012	PBS 3.15.4B	CD	C	-.0526	UG/L		0					
25012	PBS 3.15.4B	CR	C	2.3072	UG/L							
25012	PBS 3.15.4B	PB	C	.3465	UG/L							
25031	PBS 3.19.4B	SE	C	-.44	UG/L							
24969	PBS3.9.4A	AG	C	.00223	MG/L		0					
24969	PBS3.9.4A	CD	C	.00086	MG/L							
24969	PBS3.9.4A	CR	C	.00102	MG/L							
24969	PBS3.9.4A	PB	C	0	MG/L		0					
24958	PBW	P	B	-.0015	MG/L							
24985	PBW 3.13.1	AS	C	0	UG/L							
25012	PBW 3.13.1	B	C	.284	UG/L							
24985	PBW 3.13.1	BE	C	0	UG/L							
24985	PBW 3.13.1	CD	C	.166	UG/L							
24985	PBW 3.13.1	LI	C	.4624	UG/L							
24985	PBW 3.13.1	MO	C	.731	UG/L							
24985	PBW 3.13.1	PB	C	.5082	UG/L							
24985	PBW 3.13.1	SI	C	.0422	MG/L							
24985	PBW 3.13.1	SN	C	9.0203	UG/L							
24985	PBW 3.13.1	SR	C	.0177	UG/L							
24985	PBW 3.13.1	U	C	.1517	UG/L							

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25008	PBW 3.13.2	AG	C	.00236	MG/L					
25008	PBW 3.13.2	AL	C	-.03704	MG/L					
25008	PBW 3.13.2	BA	C	.00001	MG/L					
25008	PBW 3.13.2	CA	C	-.01133	MG/L					
25008	PBW 3.13.2	CO	C	-.00324	MG/L					
25008	PBW 3.13.2	CR	C	-.00392	MG/L					
25008	PBW 3.13.2	CU	C	-.00941	MG/L					
25008	PBW 3.13.2	FE	C	.00717	MG/L					
25008	PBW 3.13.2	MG	C	.03104	MG/L					
25008	PBW 3.13.2	MN	C	-.00057	MG/L					
25008	PBW 3.13.2	NI	C	.00527	MG/L					
25008	PBW 3.13.2	V	C	.00137	MG/L					
25008	PBW 3.13.2	ZN	C	.00126	MG/L					
24985	PBW 3.13.3	AS	C	0	UG/L					
25012	PBW 3.13.3	B	C	3.6635	UG/L		0			
24985	PBW 3.13.3	BE	C	0	UG/L					
24985	PBW 3.13.3	CD	C	.006	UG/L					
24985	PBW 3.13.3	LI	C	.1958	UG/L					
24985	PBW 3.13.3	MO	C	.0581	UG/L					
24985	PBW 3.13.3	PB	C	.0189	UG/L					
24985	PBW 3.13.3	SI	C	.048	MG/L					
24985	PBW 3.13.3	SN	C	.6503	UG/L					
24985	PBW 3.13.3	SR	C	.0352	UG/L					
25012	PBW 3.13.3	SR	C	.07	UG/L					
25012	PBW 3.13.3	TI	C	.1604	UG/L					
24985	PBW 3.13.3	U	C	.0033	UG/L					
25008	PBW 3.15.2	AG	C	-.00001	MG/L					
25008	PBW 3.15.2	BA	C	.00001	MG/L					
25008	PBW 3.15.2	CR	C	-.00167	MG/L					
25008	PBW 3.15.2	CU	C	-.00375	MG/L					
25008	PBW 3.15.2	FE	C	-.0013	MG/L					
25008	PBW 3.15.2	NI	C	.01372	MG/L					
25008	PBW 3.15.2	ZN	C	.00024	MG/L					
25012	PBW 3.15.3	B	C	5.9764	UG/L					
25012	PBW 3.15.3	LI	C	.02485	UG/L					
25031	PBW 3.15.3	SE	C	.24	UG/L					
24969	PBW3.12.2	BA	C	.00226	MG/L					

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24969	PBW3.12.2	CR	C	.00024	MG/L						
24969	PBW3.12.2	MN	C	.00147	MG/L		0				
24969	PBW3.12.2	NI	C	0	MG/L		0				
24969	PBW3.12.2	PB	C	.0064	MG/L		0				
24969	PBW3.13.1	AG	C	0	MG/L		0				
24969	PBW3.13.1	AL	C	0	MG/L		0				
24969	PBW3.13.1	BA	C	.00139	MG/L		0				
24969	PBW3.13.1	CA	C	0	MG/L		0				
24969	PBW3.13.1	CO	C	.00243	MG/L		0				
24969	PBW3.13.1	CR	C	0	MG/L		0				
24969	PBW3.13.1	CU	C	0	MG/L		0				
24969	PBW3.13.1	FE	C	.00182	MG/L		0				
24969	PBW3.13.1	K	C	.79815	MG/L		0				
24969	PBW3.13.1	MG	C	.00635	MG/L		0				
24969	PBW3.13.1	MN	C	.00096	MG/L		0				
24969	PBW3.13.1	NA	C	.25381	MG/L		0				
24969	PBW3.13.1	NI	C	.00663	MG/L		0				
24969	PBW3.13.1	V	C	0	MG/L		0				
24969	PBW3.13.1	ZN	C	0	MG/L		0				
24988	PBW3.14.3	CU	C	0	MG/L		0				
24988	PBW3.14.3	FE	C	.017	MG/L		0				
24969	PBW3.9.2	CR	C	.00023	MG/L		0				
24969	PBW3.9.2	FE	C	.00932	MG/L		0				
24969	PBW3.9.2	NI	C	.00517	MG/L		0				
24969	PBW3.9.2	PB	C	.00001	MG/L		0				
24969	PBW3.9.2	ZN	C	0	MG/L		0				
24958	RDLCHK	P	C	.0212	MG/L	0.02	106	%R:		70	130

QC Code Legend

B	Blanks	K	Calibration Checks	S	Spikes
C	Control Samples	M	Matrix Spike Duplicates		
D	Duplicates	R	Surrogates		

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ATEL
Aqua Tech Environmental Laboratories, Inc.

MAY 0 3 2001

- CERTIFICATE OF ANALYSIS -

Client #: I2565
Trace Analysis
6701 Aberdeen Suite 9
Lubbock, TX 79424-

Report Date: *12-Apr-01*

Phone: (806) 794-1296 **Ext:**
FAX: (806) 794-1298

Attn: Nell Green

Our Lab #: MAR01-05473 **Your Sample ID:** 164541 HMW 33 QC
Date Logged-In: 3/12/01 **Sample Source:** NPDES/WWTP's
Matrix: WasteWater **Client Project #:** **PO#:** Proj. 700A20
Project #: 700A20 **Date Submitted to Lab:** 3/9/2001

- COLLECTION INFORMATION -

Date/Time/By: 2/6/01

Test Group	EPA Method	Test	Result	Units	Analysis Date	Analyst	WS#
P	SM4500-P-E2	Phosphorus, P	0.24 (0.02)	MG/L	3/13/01	JA/BS	24958
AL-ICP	200.7/6010B	Aluminum, Al	1700 (100)	UG/L	3/16/01	ROH	25008
MO-MS	200.8	Molybdenum, Mo	1400 (30)	UG/L	3/13/01	KRG	24985
BA-ICP	200.7/6010B	Barium, Ba	11 (10)	UG/L	3/16/01	ROH	25008
NI-ICP	200.7/6010B	Nickel, Ni	ND (20)	UG/L	3/16/01	ROH	25008
BE-MS	200.8/6020	Beryllium, Be	ND (1.0)	UG/L	3/13/01	KRG	24985
SE-GFAA	3113B/7740	Selenium, Se	990 (150)	UG/L	3/19/01	SMM	25031
B-MS	200.8/6020	Boron, B	9100 (1300)	UG/L	3/16/01	SMM	25012
SI-MS	200.8	Silicon, Si	21.1 (0.10)	MG/L	3/13/01	KRG	24985
CD-MS	200.8/6020	Cadmium, Cd	ND (5.0)	UG/L	3/13/01	KRG	24985
AG-ICP	200.7/6010B	Silver, Ag	ND (10)	UG/L	3/16/01	ROH	25008
CA-ICP	200.7/6010B	Calcium, Ca	270 (0.1)	MG/L	3/16/01	ROH	25008
SR-MS	200.8/6020	Strontium, Sr	7700 (25)	UG/L	3/13/01	KRG	24985
CR-ICP	200.7/6010B	Chromium, Cr	910 (20)	UG/L	3/16/01	ROH	25008
CO-ICP	200.7/6010B	Cobalt, Co	ND (10)	UG/L	3/16/01	ROH	25008
V-ICP	200.7/6010B	Vanadium, V	21 (20)	UG/L	3/16/01	ROH	25008
CU-ICP	200.7/6010B	Copper, Cu	ND (10)	UG/L	3/16/01	ROH	25008
ZN-ICP	200.7/6010B	Zinc, Zn	25 (10)	UG/L	3/16/01	ROH	25008
FE-ICP	200.7/6010B	Iron, Fe	1500 (40)	UG/L	3/16/01	ROH	25008
MG-ICP	200.7/6010B	Magnesium, Mg	1400 (1.0)	MG/L	3/16/01	ROH	25008
MN-ICP	200.7/6010B	Manganese, Mn	55 (10)	UG/L	3/16/01	ROH	25008
PB-MS	200.8/6020	Lead, Pb	ND (10)	UG/L	3/13/01	KRG	24985

CERTIFICATIONS: NCDWQ263,NCDEH39700,AZ0071,OH4053,NY11071,A2LA102325

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Lab Number MAR01-05473 -Continued from Previous Page

Test Group	EPA Method	Test	Result	Units	Analysis Date	Analyst	WS#
AS-MS	200.8/6020	Arsenic, As	40 (3.0)	UG/L	3/13/01	KRG	24985
AL-ICP-D	200.7/6010B	Aluminum, Al, Dissolved	532 (100)	UG/L	3/15/01	BLD	24988
MO-MS-D	200.8	Molybdenum, Mo, Dissolved	1500 (30)	UG/L	3/13/01	KRG	24985
BA-ICP-D	200.7/6010B	Barium, Ba, Dissolved	ND (10)	UG/L	3/15/01	BLD	24988
NI-ICP-D	200.7/6010B	Nickel, Ni, Dissolved	ND (20)	UG/L	3/13/01	BLD	24969
BE-MS-D	200.8/6020	Beryllium, Be, Dissolved	ND (1.0)	UG/L	3/13/01	KRG	24985
K-ICP-D	200.7/6010B	Potassium, K, Dissolved	120 (2.0)	MG/L	3/15/01	BLD	24988
B-MS-D	200.8/6020	Boron, B, Dissolved	9100 (1300)	UG/L	3/16/01	SMM	25012
SE-GFAA-D	3113B/7740	Selenium, Se, Dissolved	590 (150)	UG/L	3/15/01	RCM	24998
CD-MS-D	200.8/6020	Cadmium, Cd, Dissolved	ND (5.0)	UG/L	3/13/01	KRG	24985
SI-MS-D	200.8/6020	Silicon, Si, Dissolved	10.9 (0.2)	MG/L	3/13/01	KRG	24985
CA-ICP-D	200.7/6010B	Calcium, Ca, Dissolved	310 (0.3)	MG/L	3/13/01	BLD	24969
AG-ICP-D	200.7/6010B	Silver, Ag, Dissolved	ND (10)	UG/L	3/13/01	BLD	24969
CR-ICP-D	200.7/6010B	Chromium, Cr, Dissolved	1000 (20)	UG/L	3/13/01	BLD	24969
NA-ICP-D	200.7/6010B	Sodium, Na, Dissolved	5000 (8.0)	MG/L	3/15/01	BLD	24988
CO-ICP-D	200.7/6010B	Cobalt, Co, Dissolved	ND (10)	UG/L	3/13/01	BLD	24969
SR-MS-D	6020	Strontium, Sr, Dissolved	7900 (10)	UG/L	3/13/01	KRG	24985
CU-ICP-D	200.7/6010B	Copper, Cu, Dissolved	ND (10)	UG/L	3/15/01	BLD	24988
FE-ICP-D	200.7/6010B	Iron, Fe, Dissolved	171 (40)	UG/L	3/15/01	BLD	24988
V-ICP-D	200.7/6010B	Vanadium, V, Dissolved	32 (20)	UG/L	3/15/01	BLD	24988
LI-MS-D	6020	Lithium, Li, Dissolved	780 (100)	UG/L	3/13/01	KRG	24985
ZN-ICP-D	200.7/6010B	Zinc, Zn, Dissolved	ND (10)	UG/L	3/13/01	BLD	24969
MG-ICP-D	200.7/6010B	Magnesium, Mg, Dissolved	1800 (2.0)	MG/L	3/15/01	BLD	24988
MN-ICP-D	200.7/6010B	Manganese, Mn, Dissolved	36 (20)	UG/L	3/15/01	BLD	24988
SN-MS	6020	Tin, Sn	ND (500)	UG/L	3/13/01	KRG	24985
SN-MS-D	6020	Tin, Sn, Dissolved	ND (500)	UG/L	3/13/01	KRG	24985
AS-MS-D	200.8/6020	Arsenic, As, Dissolved	35 (3.0)	UG/L	3/13/01	KRG	24985
PB-MS-D	200.8/6020	Lead, Pb, Dissolved	ND (2.0)	UG/L	3/13/01	KRG	24985

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Note: The data is valid although the BATCH matrix spike/matrix spike duplicate results associated with Selenium were outside the recommended limits.

End of Report

Report Approved By: Deborah K. Johnson

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- CERTIFICATE OF ANALYSIS -

Client #: I2565 **Report Date:** *12-Apr-01*

Trace Analysis
6701 Aberdeen Suite 9
Lubbock, TX 79424-

Phone: (806) 794-1296 **Ext:**
FAX: (806) 794-1298

Attn: Nell Green

Our Lab #: MAR01-05474 **Your Sample ID:** 164543 HMW-33

Date Logged-In: 3/12/01 **Sample Source:** NPDES/WWTP's

Matrix: WasteWater **Client Project #:** **PO#:** Proj. 700A20

Project #: 700A20 **Date Submitted to Lab:** 3/9/2001

- COLLECTION INFORMATION -

Date/Time/By: 2/6/01

Test Group	EPA Method	Test	Result	Units	Analysis Date	Analyst	WS#
P	SM4500-P-E2	Phosphorus, P	0.12 (0.02)	MG/L	3/13/01	JA/BS	24958
AL-ICP	200.7/6010B	Aluminum, Al	800 (100)	UG/L	3/16/01	ROH	25008
MO-MS	200.8	Molybdenum, Mo	1400 (30)	UG/L	3/13/01	KRG	24985
BA-ICP	200.7/6010B	Barium, Ba	ND (10)	UG/L	3/16/01	ROH	25008
NI-ICP	200.7/6010B	Nickel, Ni	ND (20)	UG/L	3/16/01	ROH	25008
BE-MS	200.8/6020	Beryllium, Be	ND (1.0)	UG/L	3/13/01	KRG	24985
SE-GFAA	3113B/7740	Selenium, Se	490 (150)	UG/L	3/15/01	RCM	24998
B-MS	200.8/6020	Boron, B	8900 (1300)	UG/L	3/16/01	SMM	25012
SI-MS	200.8	Silicon, Si	15.6 (0.10)	MG/L	3/13/01	KRG	24985
CD-MS	200.8/6020	Cadmium, Cd	ND (5.0)	UG/L	3/13/01	KRG	24985
AG-ICP	200.7/6010B	Silver, Ag	ND (10)	UG/L	3/16/01	ROH	25008
CA-ICP	200.7/6010B	Calcium, Ca	280 (0.1)	MG/L	3/16/01	ROH	25008
SR-MS	200.8/6020	Strontium, Sr	7800 (25)	UG/L	3/13/01	KRG	24985
CR-ICP	200.7/6010B	Chromium, Cr	1000 (20)	UG/L	3/16/01	ROH	25008
CO-ICP	200.7/6010B	Cobalt, Co	ND (10)	UG/L	3/16/01	ROH	25008
V-ICP	200.7/6010B	Vanadium, V	35 (20)	UG/L	3/16/01	ROH	25008
CU-ICP	200.7/6010B	Copper, Cu	ND (10)	UG/L	3/16/01	ROH	25008
ZN-ICP	200.7/6010B	Zinc, Zn	15 (10)	UG/L	3/16/01	ROH	25008
FE-ICP	200.7/6010B	Iron, Fe	850 (40)	UG/L	3/16/01	ROH	25008
MG-ICP	200.7/6010B	Magnesium, Mg	1500 (1.0)	MG/L	3/16/01	ROH	25008
MN-ICP	200.7/6010B	Manganese, Mn	54 (10)	UG/L	3/16/01	ROH	25008
PB-MS	200.8/6020	Lead, Pb	ND (10)	UG/L	3/13/01	KRG	24985

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Lab Number MAR01-05474 -Continued from Previous Page

Test Group	EPA Method	Test	Result	Units	Analysis Date	Analyst	WS#
AS-MS	200.8/6020	Arsenic, As	39 (3.0)	UG/L	3/13/01	KRG	24985
AL-ICP-D	200.7/6010B	Aluminum, Al, Dissolved	117 (100)	UG/L	3/15/01	BLD	24988
MO-MS-D	200.8	Molybdenum, Mo, Dissolved	1500 (30)	UG/L	3/13/01	KRG	24985
BA-ICP-D	200.7/6010B	Barium, Ba, Dissolved	ND (10)	UG/L	3/15/01	BLD	24988
NI-ICP-D	200.7/6010B	Nickel, Ni, Dissolved	ND (20)	UG/L	3/13/01	BLD	24969
BE-MS-D	200.8/6020	Beryllium, Be, Dissolved	ND (1.0)	UG/L	3/13/01	KRG	24985
K-ICP-D	200.7/6010B	Potassium, K, Dissolved	120 (2.0)	MG/L	3/15/01	BLD	24988
B-MS-D	200.8/6020	Boron, B, Dissolved	9400 (1300)	UG/L	3/16/01	SMM	25012
SE-GFAA-D	3113B/7740	Selenium, Se, Dissolved	430 (150)	UG/L	3/15/01	RCM	24998
CD-MS-D	200.8/6020	Cadmium, Cd, Dissolved	ND (5.0)	UG/L	3/13/01	KRG	24985
SI-MS-D	200.8/6020	Silicon, Si, Dissolved	11.3 (0.2)	MG/L	3/13/01	KRG	24985
CA-ICP-D	200.7/6010B	Calcium, Ca, Dissolved	320 (0.3)	MG/L	3/13/01	BLD	24969
AG-ICP-D	200.7/6010B	Silver, Ag, Dissolved	ND (10)	UG/L	3/13/01	BLD	24969
CR-ICP-D	200.7/6010B	Chromium, Cr, Dissolved	1100 (20)	UG/L	3/13/01	BLD	24969
NA-ICP-D	200.7/6010B	Sodium, Na, Dissolved	5000 (8.0)	MG/L	3/15/01	BLD	24988
CO-ICP-D	200.7/6010B	Cobalt, Co, Dissolved	ND (10)	UG/L	3/13/01	BLD	24969
SR-MS-D	6020	Strontium, Sr, Dissolved	8100 (10)	UG/L	3/13/01	KRG	24985
CU-ICP-D	200.7/6010B	Copper, Cu, Dissolved	ND (10)	UG/L	3/15/01	BLD	24988
FE-ICP-D	200.7/6010B	Iron, Fe, Dissolved	ND (40)	UG/L	3/15/01	BLD	24988
V-ICP-D	200.7/6010B	Vanadium, V, Dissolved	33 (20)	UG/L	3/15/01	BLD	24988
LI-MS-D	6020	Lithium, Li, Dissolved	790 (100)	UG/L	3/13/01	KRG	24985
ZN-ICP-D	200.7/6010B	Zinc, Zn, Dissolved	ND (10)	UG/L	3/13/01	BLD	24969
MG-ICP-D	200.7/6010B	Magnesium, Mg, Dissolved	1800 (2.0)	MG/L	3/15/01	BLD	24988
MN-ICP-D	200.7/6010B	Manganese, Mn, Dissolved	36 (20)	UG/L	3/15/01	BLD	24988
SN-MS-D	6020	Tin, Sn, Dissolved	ND (500)	UG/L	3/13/01	KRG	24985
SN-MS	6020	Tin, Sn	ND (500)	UG/L	3/13/01	KRG	24985
AS-MS-D	200.8/6020	Arsenic, As, Dissolved	40 (3.0)	UG/L	3/13/01	KRG	24985
PB-MS-D	200.8/6020	Lead, Pb, Dissolved	ND (2.0)	UG/L	3/13/01	KRG	24985

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Note: The data is valid although the BATCH matrix spike/matrix spike duplicate results associated with Selenium were outside the recommended limits.

End of Report

Report Approved By: Deborah K. Johnson

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Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I2565
Trace Analysis
6701 Aberdeen Suite 9
Lubbock, TX 79424-

Report Date: *12-Apr-01*

Phone: (806) 794-1296 **Ext:**
FAX: (806) 794-1298

Attn: Nell Green

Our Lab #: MAR01-05475 **Your Sample ID:** 164655 HMW-35

Date Logged-In: 3/12/01 **Sample Source:** NPDES/WWTP's

Matrix: WasteWater **Client Project #:** **PO#:** Proj. 700A20

Project #: 700A20 **Date Submitted to Lab:** 3/9/2001

- COLLECTION INFORMATION -

Date/Time/By: 2/7/01

Test Group	EPA Method	Test	Result	Units	Analysis Date	Analyst	WS#
P	SM4500-P-E2	Phosphorus, P	0.11 (0.02)	MG/L	3/13/01	JA/BS	24958
AL-ICP	200.7/6010B	Aluminum, Al	990 (100)	UG/L	3/16/01	ROH	25008
MO-MS	200.8	Molybdenum, Mo	120 (30)	UG/L	3/13/01	KRG	24985
BA-ICP	200.7/6010B	Barium, Ba	10 (10)	UG/L	3/16/01	ROH	25008
NI-ICP	200.7/6010B	Nickel, Ni	ND (20)	UG/L	3/16/01	ROH	25008
BE-MS	200.8/6020	Beryllium, Be	ND (1.0)	UG/L	3/13/01	KRG	24985
SE-GFAA	3113B/7740	Selenium, Se	46 (30)	UG/L	3/15/01	RCM	24998
B-MS	200.8/6020	Boron, B	1000 (500)	UG/L	3/16/01	SMM	25012
SI-MS	200.8	Silicon, Si	33.5 (0.10)	MG/L	3/13/01	KRG	24985
CD-MS	200.8/6020	Cadmium, Cd	ND (5.0)	UG/L	3/13/01	KRG	24985
AG-ICP	200.7/6010B	Silver, Ag	ND (10)	UG/L	3/16/01	ROH	25008
CA-ICP	200.7/6010B	Calcium, Ca	310 (0.1)	MG/L	3/16/01	ROH	25008
SR-MS	200.8/6020	Strontium, Sr	8600 (25)	UG/L	3/13/01	KRG	24985
CR-ICP	200.7/6010B	Chromium, Cr	ND (20)	UG/L	3/16/01	ROH	25008
CO-ICP	200.7/6010B	Cobalt, Co	ND (10)	UG/L	3/16/01	ROH	25008
V-ICP	200.7/6010B	Vanadium, V	27 (20)	UG/L	3/16/01	ROH	25008
CU-ICP	200.7/6010B	Copper, Cu	ND (10)	UG/L	3/16/01	ROH	25008
ZN-ICP	200.7/6010B	Zinc, Zn	25 (10)	UG/L	3/16/01	ROH	25008
FE-ICP	200.7/6010B	Iron, Fe	900 (40)	UG/L	3/16/01	ROH	25008
MG-ICP	200.7/6010B	Magnesium, Mg	330 (0.1)	MG/L	3/16/01	ROH	25008
MN-ICP	200.7/6010B	Manganese, Mn	70 (10)	UG/L	3/16/01	ROH	25008
PB-MS	200.8/6020	Lead, Pb	ND (10)	UG/L	3/13/01	KRG	24985

CERTIFICATIONS: NCDWQ263,NCDEH39700,AZ0071,OH4053,NY11071,A2LA102325

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Lab Number MAR01-05475 -Continued from Previous Page

Test Group	EPA Method	Test	Result	Units	Analysis Date	Analyst	WS#
AS-MS	200.8/6020	Arsenic, As	12 (3.0)	UG/L	3/13/01	KRG	24985
AL-ICP-D	200.7/6010B	Aluminum, Al, Dissolved	ND (100)	UG/L	3/15/01	BLD	24988
MO-MS-D	200.8	Molybdenum, Mo, Dissolved	140 (30)	UG/L	3/13/01	KRG	24985
BA-ICP-D	200.7/6010B	Barium, Ba, Dissolved	ND (10)	UG/L	3/15/01	BLD	24988
NI-ICP-D	200.7/6010B	Nickel, Ni, Dissolved	ND (20)	UG/L	3/13/01	BLD	24969
BE-MS-D	200.8/6020	Beryllium, Be, Dissolved	ND (1.0)	UG/L	3/13/01	KRG	24985
K-ICP-D	200.7/6010B	Potassium, K, Dissolved	42 (2.0)	MG/L	3/15/01	BLD	24988
B-MS-D	200.8/6020	Boron, B, Dissolved	1100 (500)	UG/L	3/16/01	SMM	25012
SE-GFAA-D	3113B/7740	Selenium, Se, Dissolved	ND (30)	UG/L	3/15/01	RCM	24998
CD-MS-D	200.8/6020	Cadmium, Cd, Dissolved	ND (5.0)	UG/L	3/13/01	KRG	24985
SI-MS-D	200.8/6020	Silicon, Si, Dissolved	30.9 (0.2)	MG/L	3/13/01	KRG	24985
CA-ICP-D	200.7/6010B	Calcium, Ca, Dissolved	360 (0.3)	MG/L	3/13/01	BLD	24969
AG-ICP-D	200.7/6010B	Silver, Ag, Dissolved	ND (10)	UG/L	3/13/01	BLD	24969
CR-ICP-D	200.7/6010B	Chromium, Cr, Dissolved	23 (20)	UG/L	3/13/01	BLD	24969
NA-ICP-D	200.7/6010B	Sodium, Na, Dissolved	1900 (8.0)	MG/L	3/15/01	BLD	24988
CO-ICP-D	200.7/6010B	Cobalt, Co, Dissolved	ND (10)	UG/L	3/13/01	BLD	24969
SR-MS-D	6020	Strontium, Sr, Dissolved	9500 (10)	UG/L	3/13/01	KRG	24985
CU-ICP-D	200.7/6010B	Copper, Cu, Dissolved	ND (10)	UG/L	3/15/01	BLD	24988
FE-ICP-D	200.7/6010B	Iron, Fe, Dissolved	ND (40)	UG/L	3/15/01	BLD	24988
V-ICP-D	200.7/6010B	Vanadium, V, Dissolved	23 (20)	UG/L	3/15/01	BLD	24988
LI-MS-D	6020	Lithium, Li, Dissolved	370 (100)	UG/L	3/13/01	KRG	24985
ZN-ICP-D	200.7/6010B	Zinc, Zn, Dissolved	ND (10)	UG/L	3/13/01	BLD	24969
MG-ICP-D	200.7/6010B	Magnesium, Mg, Dissolved	450 (0.1)	MG/L	3/15/01	BLD	24988
MN-ICP-D	200.7/6010B	Manganese, Mn, Dissolved	23 (20)	UG/L	3/15/01	BLD	24988
SN-MS	6020	Tin, Sn	ND (500)	UG/L	3/13/01	KRG	24985
SN-MS-D	6020	Tin, Sn, Dissolved	ND (500)	UG/L	3/13/01	KRG	24985
AS-MS-D	200.8/6020	Arsenic, As, Dissolved	12 (3.0)	UG/L	3/13/01	KRG	24985
PB-MS-D	200.8/6020	Lead, Pb, Dissolved	ND (2.0)	UG/L	3/13/01	KRG	24985

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Note: The data is valid although the BATCH matrix spike/matrix spike duplicate results associated with Selenium were outside the recommended limits.

End of Report

Report Approved By: Deborah K. Johnson

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ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I2565
Trace Analysis
6701 Aberdeen Suite 9
Lubbock, TX 79424-

Report Date: *12-Apr-01*

Phone: (806) 794-1296 **Ext:**
FAX: (806) 794-1298

Attn: Nell Green

Our Lab #: MAR01-05476 **Your Sample ID:** 164657 HMW-29

Date Logged-In: 3/12/01 **Sample Source:** NPDES/WWTP's

Matrix: WasteWater **Client Project #:** **PO#:** Proj. 700A20

Project #: 700A20 **Date Submitted to Lab:** 3/9/2001

- COLLECTION INFORMATION -

Date/Time/By: 2/7/01

Test Group	EPA Method	Test	Result	Units	Analysis Date	Analyst	WS#
P	SM4500-P-E2	Phosphorus, P	0.09 (0.02)	MG/L	3/13/01	JA/BS	24958
AL-ICP	200.7/6010B	Aluminum, Al	290 (100)	UG/L	3/16/01	ROH	25008
MO-MS	200.8	Molybdenum, Mo	62 (30)	UG/L	3/13/01	KRG	24985
BA-ICP	200.7/6010B	Barium, Ba	12 (10)	UG/L	3/16/01	ROH	25008
NI-ICP	200.7/6010B	Nickel, Ni	22 (20)	UG/L	3/16/01	ROH	25008
BE-MS	200.8/6020	Beryllium, Be	ND (1.0)	UG/L	3/13/01	KRG	24985
SE-GFAA	3113B/7740	Selenium, Se	73 (30)	UG/L	3/15/01	RCM	24998
B-MS	200.8/6020	Boron, B	1600 (500)	UG/L	3/16/01	SMM	25012
SI-MS	200.8	Silicon, Si	25.6 (0.10)	MG/L	3/13/01	KRG	24985
CD-MS	200.8/6020	Cadmium, Cd	ND (5.0)	UG/L	3/13/01	KRG	24985
AG-ICP	200.7/6010B	Silver, Ag	ND (10)	UG/L	3/16/01	ROH	25008
CA-ICP	200.7/6010B	Calcium, Ca	400 (0.1)	MG/L	3/16/01	ROH	25008
SR-MS	200.8/6020	Strontium, Sr	11000 (25)	UG/L	3/13/01	KRG	24985
CR-ICP	200.7/6010B	Chromium, Cr	ND (20)	UG/L	3/16/01	ROH	25008
CO-ICP	200.7/6010B	Cobalt, Co	ND (10)	UG/L	3/16/01	ROH	25008
V-ICP	200.7/6010B	Vanadium, V	32 (20)	UG/L	3/16/01	ROH	25008
CU-ICP	200.7/6010B	Copper, Cu	ND (10)	UG/L	3/16/01	ROH	25008
ZN-ICP	200.7/6010B	Zinc, Zn	26 (10)	UG/L	3/16/01	ROH	25008
FE-ICP	200.7/6010B	Iron, Fe	350 (40)	UG/L	3/16/01	ROH	25008
MG-ICP	200.7/6010B	Magnesium, Mg	560 (1.0)	MG/L	3/16/01	ROH	25008
MN-ICP	200.7/6010B	Manganese, Mn	99 (10)	UG/L	3/16/01	ROH	25008
PB-MS	200.8/6020	Lead, Pb	ND (10)	UG/L	3/13/01	KRG	24985

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- CERTIFICATE OF ANALYSIS -

Lab Number MAR01-05476 -Continued from Previous Page

Test Group	EPA Method	Test	Result	Units	Analysis Date	Analyst	WS#
AS-MS	200.8/6020	Arsenic, As	12 (3.0)	UG/L	3/13/01	KRG	24985
AL-ICP-D	200.7/6010B	Aluminum, Al, Dissolved	257 (100)	UG/L	3/15/01	BLD	24988
MO-MS-D	200.8	Molybdenum, Mo, Dissolved	75 (30)	UG/L	3/13/01	KRG	24985
BA-ICP-D	200.7/6010B	Barium, Ba, Dissolved	ND (10)	UG/L	3/15/01	BLD	24988
NI-ICP-D	200.7/6010B	Nickel, Ni, Dissolved	ND (20)	UG/L	3/13/01	BLD	24969
BE-MS-D	200.8/6020	Beryllium, Be, Dissolved	ND (1.0)	UG/L	3/13/01	KRG	24985
K-ICP-D	200.7/6010B	Potassium, K, Dissolved	54 (2.0)	MG/L	3/15/01	BLD	24988
B-MS-D	200.8/6020	Boron, B, Dissolved	2400 (500)	UG/L	3/16/01	SMM	25012
SE-GFAA-D	3113B/7740	Selenium, Se, Dissolved	99 (30)	UG/L	3/19/01	SMM	25031
CD-MS-D	200.8/6020	Cadmium, Cd, Dissolved	ND (5.0)	UG/L	3/13/01	KRG	24985
SI-MS-D	200.8/6020	Silicon, Si, Dissolved	29.9 (0.2)	MG/L	3/13/01	KRG	24985
CA-ICP-D	200.7/6010B	Calcium, Ca, Dissolved	370 (0.3)	MG/L	3/13/01	BLD	24969
AG-ICP-D	200.7/6010B	Silver, Ag, Dissolved	ND (10)	UG/L	3/13/01	BLD	24969
CR-ICP-D	200.7/6010B	Chromium, Cr, Dissolved	ND (20)	UG/L	3/13/01	BLD	24969
NA-ICP-D	200.7/6010B	Sodium, Na, Dissolved	2300 (8.0)	MG/L	3/15/01	BLD	24988
CO-ICP-D	200.7/6010B	Cobalt, Co, Dissolved	ND (10)	UG/L	3/13/01	BLD	24969
SR-MS-D	6020	Strontium, Sr, Dissolved	11000 (10)	UG/L	3/13/01	KRG	24985
CU-ICP-D	200.7/6010B	Copper, Cu, Dissolved	ND (10)	UG/L	3/15/01	BLD	24988
FE-ICP-D	200.7/6010B	Iron, Fe, Dissolved	64 (40)	UG/L	3/15/01	BLD	24988
V-ICP-D	200.7/6010B	Vanadium, V, Dissolved	24 (20)	UG/L	3/15/01	BLD	24988
LI-MS-D	6020	Lithium, Li, Dissolved	440 (100)	UG/L	3/13/01	KRG	24985
ZN-ICP-D	200.7/6010B	Zinc, Zn, Dissolved	ND (10)	UG/L	3/13/01	BLD	24969
MG-ICP-D	200.7/6010B	Magnesium, Mg, Dissolved	610 (2.0)	MG/L	3/15/01	BLD	24988
MN-ICP-D	200.7/6010B	Manganese, Mn, Dissolved	26 (20)	UG/L	3/15/01	BLD	24988
SN-MS-D	6020	Tin, Sn, Dissolved	ND (500)	UG/L	3/13/01	KRG	24985
SN-MS	6020	Tin, Sn	ND (500)	UG/L	3/13/01	KRG	24985
AS-MS-D	200.8/6020	Arsenic, As, Dissolved	11 (3.0)	UG/L	3/13/01	KRG	24985
PB-MS-D	200.8/6020	Lead, Pb, Dissolved	ND (2.0)	UG/L	3/13/01	KRG	24985

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Note: The data is valid although the BATCH matrix spike/matrix spike duplicate results associated with Selenium were outside the recommended limits.

End of Report

Report Approved By: Deborah K. Johnson

Deborah K. Johnson

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ATEL
Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I2565
Trace Analysis
6701 Aberdeen Suite 9
Lubbock, TX 79424-

Report Date: *12-Apr-01*

Phone: (806) 794-1296 **Ext:**
FAX: (806) 794-1298

Attn: Nell Green

Our Lab #: MAR01-05478 **Your Sample ID:** 164755 H MW-32
Date Logged-In: 3/12/01 **Sample Source:** NPDES/WWTP's
Matrix: WasteWater **Client Project #:** **PO#:** Proj. 700A20
Project #: 700A20 **Date Submitted to Lab:** 3/9/2001

- COLLECTION INFORMATION -

Date/Time/By: 2/8/01

Test Group	EPA Method	Test	Result	Units	Analysis Date	Analyst	WS#
P	SM4500-P-E2	Phosphorus, P	0.09 (0.02)	MG/L	3/13/01	JA/BS	24958
AL-ICP	200.7/6010B	Aluminum, Al	240 (100)	UG/L	3/16/01	ROH	25008
MO-MS	200.8	Molybdenum, Mo	170 (30)	UG/L	3/13/01	KRG	24985
BA-ICP	200.7/6010B	Barium, Ba	ND (10)	UG/L	3/16/01	ROH	25008
NI-ICP	200.7/6010B	Nickel, Ni	ND (20)	UG/L	3/16/01	ROH	25008
BE-MS	200.8/6020	Beryllium, Be	ND (1.0)	UG/L	3/13/01	KRG	24985
SE-GFAA	3113B/7740	Selenium, Se	ND (30)	UG/L	3/15/01	RCM	24998
B-MS	200.8/6020	Boron, B	2000 (500)	UG/L	3/16/01	SMM	25012
SI-MS	200.8	Silicon, Si	18.2 (0.10)	MG/L	3/13/01	KRG	24985
CD-MS	200.8/6020	Cadmium, Cd	ND (5.0)	UG/L	3/13/01	KRG	24985
AG-ICP	200.7/6010B	Silver, Ag	ND (10)	UG/L	3/16/01	ROH	25008
CA-ICP	200.7/6010B	Calcium, Ca	380 (0.1)	MG/L	3/16/01	ROH	25008
SR-MS	200.8/6020	Strontium, Sr	8000 (25)	UG/L	3/13/01	KRG	24985
CR-ICP	200.7/6010B	Chromium, Cr	ND (20)	UG/L	3/16/01	ROH	25008
CO-ICP	200.7/6010B	Cobalt, Co	ND (10)	UG/L	3/16/01	ROH	25008
V-ICP	200.7/6010B	Vanadium, V	26 (20)	UG/L	3/16/01	ROH	25008
CU-ICP	200.7/6010B	Copper, Cu	ND (10)	UG/L	3/16/01	ROH	25008
ZN-ICP	200.7/6010B	Zinc, Zn	18 (10)	UG/L	3/16/01	ROH	25008
FE-ICP	200.7/6010B	Iron, Fe	270 (40)	UG/L	3/16/01	ROH	25008
MG-ICP	200.7/6010B	Magnesium, Mg	470 (0.1)	MG/L	3/16/01	ROH	25008
MN-ICP	200.7/6010B	Manganese, Mn	67 (10)	UG/L	3/16/01	ROH	25008
PB-MS	200.8/6020	Lead, Pb	ND (10)	UG/L	3/13/01	KRG	24985

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Client #: I2565
Trace Analysis
6701 Aberdeen Suite 9
Lubbock, TX 79424-

Report Date: *12-Apr-01*

Phone: (806) 794-1296 **Ext:**
FAX: (806) 794-1298

Attn: Nell Green

Our Lab #: MAR01-05477 **Your Sample ID:** 164753 HMW-34 By pressure elimination

Date Logged-In: 3/12/01 **Sample Source:** NPDES/WWTP's

Matrix: WasteWater **Client Project #:** **PO#:** Proj. 700A20

Project #: 700A20 **Date Submitted to Lab:** 3/9/2001

- COLLECTION INFORMATION -

Date/Time/By: 2/8/01

Test Group	EPA Method	Test	Result	Units	Analysis Date	Analyst	WS#
P	SM4500-P-E2	Phosphorus, P	0.16 (0.02)	MG/L	3/13/01	JA/BS	24958
AL-ICP	200.7/6010B	Aluminum, Al	610 (100)	UG/L	3/16/01	ROH	25008
MO-MS	200.8	Molybdenum, Mo	190 (30)	UG/L	3/13/01	KRG	24985
BA-ICP	200.7/6010B	Barium, Ba	14 (10)	UG/L	3/16/01	ROH	25008
NI-ICP	200.7/6010B	Nickel, Ni	ND (20)	UG/L	3/16/01	ROH	25008
BE-MS	200.8/6020	Beryllium, Be	ND (1.0)	UG/L	3/13/01	KRG	24985
SE-GFAA	3113B/7740	Selenium, Se	ND (30)	UG/L	3/15/01	RCM	24998
B-MS	200.8/6020	Boron, B	2100 (500)	UG/L	3/16/01	SMM	25012
SI-MS	200.8	Silicon, Si	21.8 (0.10)	MG/L	3/13/01	KRG	24985
CD-MS	200.8/6020	Cadmium, Cd	ND (5.0)	UG/L	3/13/01	KRG	24985
AG-ICP	200.7/6010B	Silver, Ag	ND (10)	UG/L	3/16/01	ROH	25008
CA-ICP	200.7/6010B	Calcium, Ca	320 (0.1)	MG/L	3/16/01	ROH	25008
SR-MS	200.8/6020	Strontium, Sr	8300 (25)	UG/L	3/13/01	KRG	24985
CR-ICP	200.7/6010B	Chromium, Cr	ND (20)	UG/L	3/16/01	ROH	25008
CO-ICP	200.7/6010B	Cobalt, Co	ND (10)	UG/L	3/16/01	ROH	25008
V-ICP	200.7/6010B	Vanadium, V	30 (20)	UG/L	3/16/01	ROH	25008
CU-ICP	200.7/6010B	Copper, Cu	ND (10)	UG/L	3/16/01	ROH	25008
ZN-ICP	200.7/6010B	Zinc, Zn	15 (10)	UG/L	3/16/01	ROH	25008
FE-ICP	200.7/6010B	Iron, Fe	560 (40)	UG/L	3/16/01	ROH	25008
MG-ICP	200.7/6010B	Magnesium, Mg	390 (0.1)	MG/L	3/16/01	ROH	25008
MN-ICP	200.7/6010B	Manganese, Mn	69 (10)	UG/L	3/16/01	ROH	25008
PB-MS	200.8/6020	Lead, Pb	ND (10)	UG/L	3/13/01	KRG	24985

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Lab Number MAR01-05477 -Continued from Previous Page

Test Group	EPA Method	Test	Result	Units	Analysis Date	Analyst	WS#
AS-MS	200.8/6020	Arsenic, As	12 (3.0)	UG/L	3/13/01	KRG	24985
AL-ICP-D	200.7/6010B	Aluminum, Al, Dissolved	150 (100)	UG/L	3/15/01	BLD	24988
MO-MS-D	200.8	Molybdenum, Mo, Dissolved	210 (30)	UG/L	3/13/01	KRG	24985
BA-ICP-D	200.7/6010B	Barium, Ba, Dissolved	12 (10)	UG/L	3/15/01	BLD	24988
NI-ICP-D	200.7/6010B	Nickel, Ni, Dissolved	ND (20)	UG/L	3/13/01	BLD	24969
BE-MS-D	200.8/6020	Beryllium, Be, Dissolved	ND (1.0)	UG/L	3/13/01	KRG	24985
K-ICP-D	200.7/6010B	Potassium, K, Dissolved	62 (2.0)	MG/L	3/15/01	BLD	24988
B-MS-D	200.8/6020	Boron, B, Dissolved	2000 (500)	UG/L	3/16/01	SMM	25012
SE-GFAA-D	3113B/7740	Selenium, Se, Dissolved	ND (30)	UG/L	3/15/01	RCM	24998
CD-MS-D	200.8/6020	Cadmium, Cd, Dissolved	ND (5.0)	UG/L	3/13/01	KRG	24985
SI-MS-D	200.8/6020	Silicon, Si, Dissolved	17.6 (0.2)	MG/L	3/13/01	KRG	24985
CA-ICP-D	200.7/6010B	Calcium, Ca, Dissolved	350 (0.3)	MG/L	3/13/01	BLD	24969
AG-ICP-D	200.7/6010B	Silver, Ag, Dissolved	ND (10)	UG/L	3/13/01	BLD	24969
CR-ICP-D	200.7/6010B	Chromium, Cr, Dissolved	ND (20)	UG/L	3/13/01	BLD	24969
NA-ICP-D	200.7/6010B	Sodium, Na, Dissolved	2300 (8.0)	MG/L	3/15/01	BLD	24988
CO-ICP-D	200.7/6010B	Cobalt, Co, Dissolved	ND (10)	UG/L	3/13/01	BLD	24969
SR-MS-D	6020	Strontium, Sr, Dissolved	8800 (10)	UG/L	3/13/01	KRG	24985
CU-ICP-D	200.7/6010B	Copper, Cu, Dissolved	ND (10)	UG/L	3/15/01	BLD	24988
FE-ICP-D	200.7/6010B	Iron, Fe, Dissolved	ND (40)	UG/L	3/15/01	BLD	24988
V-ICP-D	200.7/6010B	Vanadium, V, Dissolved	28 (20)	UG/L	3/15/01	BLD	24988
LI-MS-D	6020	Lithium, Li, Dissolved	420 (100)	UG/L	3/13/01	KRG	24985
ZN-ICP-D	200.7/6010B	Zinc, Zn, Dissolved	ND (10)	UG/L	3/13/01	BLD	24969
MG-ICP-D	200.7/6010B	Magnesium, Mg, Dissolved	520 (2.0)	MG/L	3/15/01	BLD	24988
MN-ICP-D	200.7/6010B	Manganese, Mn, Dissolved	59 (20)	UG/L	3/15/01	BLD	24988
SN-MS	6020	Tin, Sn	ND (50)	UG/L	3/13/01	KRG	24985
SN-MS-D	6020	Tin, Sn, Dissolved	ND (50)	UG/L	3/13/01	KRG	24985
AS-MS-D	200.8/6020	Arsenic, As, Dissolved	13 (3.0)	UG/L	3/13/01	KRG	24985
PB-MS-D	200.8/6020	Lead, Pb, Dissolved	ND (2.0)	UG/L	3/13/01	KRG	24985

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A0102024

MEVATEC CORPORATION
P.O. Box 399
Bldg. 126
WSMR, NM 88002
(505) 678-0263

CHAIN OF CUSTODY RECORD

PAGE 1 OF 2

PROJECT NO.	PROJECT NAME	SAMPLER'S SIGNATURE
700A20	Groundwater Sampling @ HELSTF LANDFILL (CONSTRUCTION)	George Esqueda

DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	VOC's	TPH (MOD.) DRO-GRO	TOC's	SVOC's	Explosives	Pesticides	Herbicides	Water Quality	Total Metals	Chromium 6+	REMARKS
2-6-01	1215	3839-HMW33-0201-QC	water	164541	26	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
2-6-01	1215	3839-HMW33-0201-QC-TB	water	164542	2	✓										
						HCl	HCl	H_2SO_4	4°C	4°C	4°C	4°C	4°C	HNO3	4°C	

PROJECT INFORMATION			
PROJECT MANAGER	Karen Costa	SAMPLES RECEIVED	
SHIPPING ID. NO.		TOTAL NO. OF CONTAINERS	
VIA:	Lab Courier	CHAIN OF CUSTODY SEALS	
		GOOD CONDITION/CHILLED	
		CONFORMS TO RECORD	

1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LABORATORY: (SIGNATURE)
George Esqueda		
(PRINTED NAME) George ESQUEDA	(PRINTED NAME)	(PRINTED NAME) Vicki Hensley
RECEIVED BY:	RECEIVED BY:	(COMPANY) Pace Analysis
(TIME / DATE) 2-7-01 10:15	(TIME / DATE)	(TIME / DATE) 2.8.01 10:00

SPECIAL INSTRUCTIONS / COMMENTS:
Please see Attached Analyte List for details
DIS 4°

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A01020024

MEVATEC CORPORATION
P.O. Box 399
Bldg. 126
WSMR, NM 88002
(505) 678-0263

CHAIN OF CUSTODY RECORD

PAGE 2 OF 2

PROJECT NO.	PROJECT NAME	NO. OF CONTAINERS	ANALYSIS REQUESTED										REMARKS
700A20	Groundwater Samplins @ HELSTF LANDFILL (CONSTRUCTION)		Ammonia (NH_3+NH_4)	TKN	Total Phosphorous	Ammonium Perchlorate	Diss. Ions	Diss. Metals	Cyanide				
SAMPLER'S SIGNATURE: George Esqueda													
DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	LAB NO.									
2-6-01	1215	3839-HMW 33-0201-QC	water	16454	26	✓	✓	✓	✓	✓	✓	✓	
						H_2SO_4	H_2SO_4	H_2SO_4	4°C	4°C	HNO_3	NaOH	

PROJECT INFORMATION		SAMPLES RECEIVED		1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LABORATORY: (SIGNATURE)
PROJECT MANAGER	Karen Costa	TOTAL NO. OF CONTAINERS		(PRINTED NAME) George ESQUEDA	(PRINTED NAME)	(PRINTED NAME) Vicki Hinsley
SHIPPING ID. NO.		CHAIN OF CUSTODY SEALS		RECEIVED BY:	RECEIVED BY:	(COMPANY) PaceAnalysis
VIA:	Lab Courier	GOOD CONDITION/CHILLED		(TIME / DATE) 2-7-01 10:15	(TIME / DATE)	(TIME / DATE) 10:00 2-8-01
		CONFORMS TO RECORD		SPECIAL INSTRUCTIONS / COMMENTS: Please see attached Analyte List for details		Bk 4

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MEVATEC CORPORATION
P.O. Box 399
Bldg. 126
WSMR, NM 88002
(505) 678-0263

CHAIN OF CUSTODY RECORD

PAGE 1 OF 2

PROJECT NO.	PROJECT NAME
700A20	Ground water Sampling @ HELSTF LANDFILL (Construction)

SAMPLER'S SIGNATURE: George Esqueda

DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	VOC's	TPH (MOD.) DRO-GRO	TOC's	SVOC's	Explosives	Pesticides	Herbicides	Water Quality	Total Metals	Chromium 6+	REMARKS
2-6-01	1215	3839-HMW33-0201	water	164543	26	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
2-6-01	1215	3839-HMW33-0201-TB	Water	164544	2	✓										
						HCl	HCl	H_2SO_4	4°C	4°C	4°C	4°C	4°C	HNO_3	4°C	

PROJECT INFORMATION		SAMPLES RECEIVED		1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LABORATORY: (SIGNATURE)
PROJECT MANAGER	Karen Costa	TOTAL NO. OF CONTAINERS		(PRINTED NAME) George Esqueda	(PRINTED NAME)	(PRINTED NAME) Vicki Hansley
SHIPPING ID. NO.		CHAIN OF CUSTODY SEALS		RECEIVED BY:	RECEIVED BY:	(COMPANY) Test Analysis
		GOOD CONDITION/CHILLED		(TIME / DATE) 2-7-01 10:15	(TIME / DATE)	(TIME / DATE) 10:00 AM 2-8-01
VIA:	Lab Courier	CONFORMS TO RECORD		SPECIAL INSTRUCTIONS / COMMENTS: Please see attached Analyte list for details		BAS 4

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CHAIN OF CUSTODY RECORD

PROJECT NO.	PROJECT NAME
700A20	Groundwater Samplings @ HELSTF LAND Fill (Construction)

SAMPLER'S SIGNATURE: Dionzi Esqueda

DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	Ammonia (NH3+NH4)	TKN	Total Phosphorous	Ammonium Perchlorate	Diss. Ions	Diss. Metals	Cyanide				REMARKS
						H_2SO_4	H_2SO_4	H_2SO_4	4°C	4°C	HNO_3	NaOH				
2-6-01	1215	3839-HMW33-0201	water	164543	26	✓	✓	✓	✓	✓	✓	✓				
					26											

PROJECT INFORMATION		SAMPLES RECEIVED		1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LABORATORY: (SIGNATURE)
PROJECT MANAGER	Karen Costa	TOTAL NO. OF CONTAINERS		(PRINTED NAME) GEORGE ESQUEDA	(PRINTED NAME)	(PRINTED NAME) Vicki Hanstey
SHIPPING ID. NO.		CHAIN OF CUSTODY SEALS		RECEIVED BY:	RECEIVED BY:	(COMPANY) Pace Analysis
		GOOD CONDITION/CHILLED		(TIME / DATE) 2-7-01 10:15	(TIME / DATE)	(TIME / DATE) 10:00 2-8-01
VIA:	Lab Courier	CONFORMS TO RECORD		SPECIAL INSTRUCTIONS / COMMENTS: Please see attached Analyte List for details		BS 4/6

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CHAIN OF CUSTODY RECORD

PROJECT NO.: 700A20

PROJECT NAME: Groundwater Sampling @ HELSTF LANDFILL (Construction)

SAMPLER'S SIGNATURE: George Esquada

DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	Voc's	TPH (MOD) Dro-Gro	Toc's	SVOC's	Explosives	Pesticides	Herbicides	Water Quality	Total Metals	chromium 6+	REMARKS
2-7-01	1500	3839-HMW35-0201	water	164655	26	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
2-7-01	1500	3839-HMW35-0201-TB	water	164656	2	✓										
						HCL	HCL	H_2SO_4	4°C	4°C	4°C	4°C	4°C	HNO_3	4°C	

PROJECT INFORMATION			1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LABORATORY: (SIGNATURE)
PROJECT MANAGER: Karen Costa	SAMPLES RECEIVED		George Esquada	[signature]	Nell Green
	TOTAL NO. OF CONTAINERS		(PRINTED NAME) George Esquada	(PRINTED NAME) R. Peck	(PRINTED NAME) N. Green
SHIPPING ID. NO.	CHAIN OF CUSTODY SEALS		RECEIVED BY: [signature]	RECEIVED BY:	(COMPANY) Trace Analysis
	GOOD CONDITION/CHILLED		(TIME / DATE) 2/7/01 17:25	(TIME / DATE)	(TIME / DATE) 2-9-01 9:30am
VIA: Lab Courier	CONFORMS TO RECORD		SPECIAL INSTRUCTIONS / COMMENTS: Please See Attached Analyte List for details		

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CHAIN OF CUSTODY RECORD

PROJECT NO.: 700A20
PROJECT NAME: Groundwater Samplins @ HELSTF LANDFILL (Construction)
SAMPLER'S SIGNATURE: George Esquer

DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	Ammonia (NH_3 + NH_4)	TKN	Total Phosphorus	Ammonium Perchlorate	Diss. Ions	Diss. Metals	Cyanide				REMARKS
						H_2SO_4	H_2SO_4	H_2SO_4	4°C	4°C	HNO_3	NaOH				
2-7-01	1500	3839-HMW35-0201	water	164655	26	✓	✓	✓	✓	✓	✓	✓				

PROJECT INFORMATION		SAMPLES RECEIVED		1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LABORATORY: (SIGNATURE)
PROJECT MANAGER	Karen Costa	TOTAL NO. OF CONTAINERS		(PRINTED NAME) George Esquer	(PRINTED NAME) K. Peck	(PRINTED NAME) N. Green
SHIPPING ID. NO.		CHAIN OF CUSTODY SEALS		RECEIVED BY:	RECEIVED BY:	(COMPANY) Trace Analysis
		GOOD CONDITION/CHILLED		(TIME / DATE) 2/7/01 17:25	(TIME / DATE)	(TIME / DATE) 2-9-01 9:30am
VIA:	Lab Courier	CONFORMS TO RECORD		SPECIAL INSTRUCTIONS / COMMENTS: Please see attached Analyte List for details		

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CHAIN OF CUSTODY RECORD

PAGE 1 OF 2

PROJECT NO.: 700 A20

PROJECT NAME: Groundwater Sampling @ HELSTF LANDFILL (Construction)

SAMPLER'S SIGNATURE: George Esqueda

DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	VOC's	TPH-DRO (MOD) & GRO	TOC's	SVOC's	Explosives	Pesticides	Herbicides	Water Quality	Total Metals	Chromium 6+	REMARKS
2-7-01	1500	3839-HMW35-0201-MS/MSD	water	164655	26	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
2-7-01	1500	3839-HMW35-0201-MS/MSD-TB	water	164656	2	✓										
						HCL	HCL	H_2SO_4	4°C	4°C	4°C	4°C	4°C	HNO_3	4°C	

PROJECT INFORMATION			1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LABORATORY: (SIGNATURE)
PROJECT MANAGER: Karen Costa	SAMPLES RECEIVED		George Esqueda	[signature]	Nell Green
	TOTAL NO. OF CONTAINERS		(PRINTED NAME) George Esqueda	(PRINTED NAME) R. Peck	(PRINTED NAME) N. Green
SHIPPING ID. NO.	CHAIN OF CUSTODY SEALS		RECEIVED BY: [signature]	RECEIVED BY:	(COMPANY) Trace Analysis
	GOOD CONDITION/CHILLED		(TIME / DATE) 2/7/01 17:35	(TIME / DATE)	(TIME / DATE) 2-9-01 9:30am
VIA: Lab Courier	CONFORMS TO RECORD		SPECIAL INSTRUCTIONS / COMMENTS: Please SEE Attached Analyte List FOR Details		

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CHAIN OF CUSTODY RECORD

PAGE 2 OF 2

PROJECT NO.	PROJECT NAME	NO. OF CONTAINERS	ANALYSIS REQUESTED										REMARKS
700 A20	Groundwater Samplins @ HELSTF LANDFILL (CONSTRUCTION)		Ammonia (NH_3+NH_4)	TKN	Total Phosphorous	Ammonium Perchlorate	Diss. Ions	Diss. Metals	Cyanide				
SAMPLER'S SIGNATURE: George Esquela													
DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	LAB NO.									
2-7-01	1500	3839-HMW35-01-ms/msd	water	164055	2p	✓	✓	✓	✓	✓	✓	✓	
						H_2SO_4	H_2SO_4	H_2SO_4	4°C	4°C	HNO_3	NaOH	

PROJECT INFORMATION		1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LABORATORY: (SIGNATURE)
PROJECT MANAGER: Karen Costa	SAMPLES RECEIVED	George Esquela		Nell Green
SHIPPING ID. NO.	TOTAL NO. OF CONTAINERS	(PRINTED NAME) George Esquela	(PRINTED NAME)	(PRINTED NAME) N. Green
VIA: Lab Courier	CHAIN OF CUSTODY SEALS	RECEIVED BY:	RECEIVED BY:	(COMPANY) Trace Analysis
	GOOD CONDITION/CHILLED	(TIME / DATE) 2/7/01 17:35	(TIME / DATE)	(TIME / DATE) 2-9-01 9:30am
	CONFORMS TO RECORD	SPECIAL INSTRUCTIONS / COMMENTS: Please see attached Analyte list for details		

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CHAIN OF CUSTODY RECORD

PAGE 1 OF 2

PROJECT NO. 700A20

PROJECT NAME Groundwater Sampling @ HELSTF LANDFILL (CONSTRUCTION)

SAMPLER'S SIGNATURE: George Esqueda

DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	VOC's	TPH-MOD Dro-Gro	TOC's	SVOC's	Explosives	Pesticides	Herbicides	Water Quality	Total Metals	Chromium 6+	REMARKS
2-7-01	1215	3839-HMW29-0201	water	164657	26	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
2-7-01	1215	3839-HMW29-0201-TB	water	164658	2	✓										
						HCL	HCL	H_2SO_4	4°C	4°C	4°C	4°C	4°C	HNO_3	4°C	

PROJECT INFORMATION			
PROJECT MANAGER: Karen Costa	SAMPLES RECEIVED		
	TOTAL NO. OF CONTAINERS		
SHIPPING ID. NO.	CHAIN OF CUSTODY SEALS		
	GOOD CONDITION/CHILLED		
VIA: Lab Courier	CONFORMS TO RECORD		

1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LABORATORY: (SIGNATURE)
George Esqueda	[signature]	Vicki Hensley
(PRINTED NAME) George Esqueda	(PRINTED NAME) R. Peck	(PRINTED NAME) Vicki Hensley
RECEIVED BY: [signature]	RECEIVED BY:	(COMPANY) Trace Analysis
(TIME / DATE) 2/7/01 17:45	(TIME / DATE)	(TIME / DATE) 10:00 2-9-01

SPECIAL INSTRUCTIONS / COMMENTS: Please SEE Attached Analyte List FOR details

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CHAIN OF CUSTODY RECORD

PROJECT NO.	PROJECT NAME	NO. OF CONTAINERS	ANALYSIS REQUESTED	REMARKS
700A20	Groundwater Sampling @ HELSTF Landfill (Construction)			

SAMPLER'S SIGNATURE: George Esqueda

DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	Ammonia (NH_3 + NH_4)	TKN	Total Phosphorous	Ammonium Perchlorate	Diss. Ions	Diss. Metals	Cyanide			
2-7-01	1215	3839-HMW29-0201	water	164657	26	✓	✓	✓	✓	✓	✓	✓			
						H_2SO_4	H_2SO_4	H_2SO_4	4°C	4°C	HNO_3	NaOH			

PROJECT INFORMATION			1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LABORATORY: (SIGNATURE)
PROJECT MANAGER: Karen Costa	SAMPLES RECEIVED		(PRINTED NAME) George Esqueda	(PRINTED NAME) K. Ked	(PRINTED NAME) Vicki Hensley
SHIPPING ID. NO.	TOTAL NO. OF CONTAINERS		RECEIVED BY:	RECEIVED BY:	(COMPANY) Place Analysis
VIA: Lab Courier	CHAIN OF CUSTODY SEALS		(TIME / DATE) 2/7/01 17:45	(TIME / DATE)	(TIME / DATE) 10:00 AM 2/8/01
	GOOD CONDITION/CHILLED		SPECIAL INSTRUCTIONS / COMMENTS: Please see Attached Analyte List for Details		BS
	CONFORMS TO RECORD				

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CHAIN OF CUSTODY RECORD

PROJECT NO.: 700 A20

PROJECT NAME: Groundwater Sampling @ HELSTF LANDFILL (Construction)

SAMPLER'S SIGNATURE: George Esqueda

DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	VOC's	TPH (MOD) Dro-Gro	TOC's	SVOC's	Explosives	Pesticides	Herbicides	Water Quality	Total Metals	Chromium 6+	REMARKS
2-8-01	1330	3839-HMW34-0201	water	~~164790~~	26	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	~~164753~~ 164753
2-8-01	1330	3839-HMW34-0201-TB	water	~~164791~~	2	✓										164754
						HCL	HCL	H_2SO_4	4°C	4°C	4°C	4°C	4°C	HNO_3	4°C	

PROJECT INFORMATION		
PROJECT MANAGER: Karen Costa	SAMPLES RECEIVED	
	TOTAL NO. OF CONTAINERS	
SHIPPING ID. NO.	CHAIN OF CUSTODY SEALS	
	GOOD CONDITION/CHILLED	
VIA: Lab Courier	CONFORMS TO RECORD	

1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LABORATORY: (SIGNATURE)
George Esqueda	[signature]	[signature]
(PRINTED NAME) George Esqueda	(PRINTED NAME) R. Peck	(PRINTED NAME) James Taylor
RECEIVED BY: [signature]	RECEIVED BY:	(COMPANY) Trace Analysis
(TIME / DATE) 2/8/01 8:45	(TIME / DATE)	(TIME / DATE) 02/10/01 10:05

SPECIAL INSTRUCTIONS / COMMENTS: Please See Attached Analyte List For Details

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CHAIN OF CUSTODY RECORD

PROJECT NO.: 700A20

PROJECT NAME: Groundwater Sampling @ HELSTF LANDFILL (Construction)

SAMPLER'S SIGNATURE: George Esqueda

DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	Ammonia (NH_3 + NH_4)	TKN	Total Phosphorous	Ammonium Perchorate	Diss. Ions	Diss. Metals	Cyanide				REMARKS
2-8-01	1330	3839-HMW34-0201	water	~~164790~~	26	✓	✓	✓	✓	✓	✓	✓				~~164754~~ 164753
						H_2SO_4	H_2SO_4	H_2SO_4	4°C	4°C	HNO_3	NaOH				

PROJECT INFORMATION			1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LABORATORY: (SIGNATURE)
PROJECT MANAGER: Karen Costa	SAMPLES RECEIVED		George Esqueda	[signature]	[signature]
	TOTAL NO. OF CONTAINERS		(PRINTED NAME) George Esqueda	(PRINTED NAME) R. Peck	(PRINTED NAME) James Taylor
SHIPPING ID. NO.	CHAIN OF CUSTODY SEALS		RECEIVED BY: [signature]	RECEIVED BY:	(COMPANY) Trace Analysis
	GOOD CONDITION/CHILLED		(TIME / DATE) 2/8/01 8:45	(TIME / DATE)	(TIME / DATE) 02/10/01 10:05
VIA: Lab Courier	CONFORMS TO RECORD		SPECIAL INSTRUCTIONS / COMMENTS: Please SEE attached Analyte List for details		

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CHAIN OF CUSTODY RECORD

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PROJECT NO.	PROJECT NAME	NO. OF CONTAINERS	ANALYSIS REQUESTED	REMARKS
700 A20	Groundwater Sampling @ HELSTF LANDFILL (Construction)			

SAMPLER'S SIGNATURE: George Esqueda

DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	VOC's	TPH (mod) Ore-Gro	TOC's	SVOC's	Explosives	Pesticides	Herbicides	Water Quality	Total Metals	Chromium 6+	REMARKS
2-8-01	1420	3839-HMW32-0201	water	164755	26	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
2-8-01	1420	3839-HMW32-0201-TB	water	164756	2	✓										
						HCl	HCl	H_2SO_4	4°C	4°C	4°C	4°C	4°C	HNO_3	4°C	

PROJECT INFORMATION			1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LABORATORY: (SIGNATURE)
PROJECT MANAGER: Karen Costa	SAMPLES RECEIVED		(PRINTED NAME) George Esqueda	(PRINTED NAME) R. Peck	(PRINTED NAME) James Taylor
SHIPPING ID. NO.	TOTAL NO. OF CONTAINERS		RECEIVED BY:	RECEIVED BY:	(COMPANY) Trace Analysis
VIA: Lab Courier	CHAIN OF CUSTODY SEALS		(TIME / DATE) 2/8/01 8:45	(TIME / DATE)	(TIME / DATE)
	GOOD CONDITION/CHILLED		SPECIAL INSTRUCTIONS / COMMENTS: SEE Attached Analyte List FOR details		4°C
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CHAIN OF CUSTODY RECORD

PROJECT NO.	PROJECT NAME	NO. OF CONTAINERS	ANALYSIS REQUESTED	REMARKS
700A20	Groundwater Samplings @ HELSTF LANDFILL (CONSTRUCTION)			

SAMPLER'S SIGNATURE: Georg Esqueda

DATE COLLECTED	TIME COLLECTED	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	Ammonia (NH_3 + NH_4)	TKN	Total Phosphorous	Ammonium Perchlorate	Diss. Ions	Diss. Metals	Cyanide				
2-8-01	1420	3839-HMW32-0201	Water	164755	26	✓	✓	✓	✓	✓	✓	✓				
						H_2SO_4	H_2SO_4	H_2SO_4	4°C	4°C	HNO_3	NaOH				

PROJECT INFORMATION			1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LABORATORY: (SIGNATURE)
PROJECT MANAGER: Karen Costa	SAMPLES RECEIVED		(PRINTED NAME) George Esqueda	(PRINTED NAME) R Peck	(PRINTED NAME) James Taylor
SHIPPING ID. NO.	TOTAL NO. OF CONTAINERS		RECEIVED BY:	RECEIVED BY:	(COMPANY) Trace Analysis
VIA: Lab Courier	CHAIN OF CUSTODY SEALS		(TIME / DATE) 2/8/01 8:45	(TIME / DATE)	(TIME / DATE) 02/10/01 10:05
	GOOD CONDITION/CHILLED		SPECIAL INSTRUCTIONS / COMMENTS: Please see attached Analyte List for details		4°C
	CONFORMS TO RECORD				

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WAO HELSTF Landfill 400VV/700A20/800FF **01/01**

Parameter	Reference Method	Method Type	Laboratory Detection Limits	Hold Time* * before/after extract	Container/ Preservative
Water Quality					
Cyanide(**January sampling event only**)	SW846 9010B	Distillation	0.02 mg/L	14 days	1-L plastic, NaOH pH>12
CO_3^{-2} & HCO_3^- Alkalinity	EPA 310.1	Titrimetric	1.2 mg/L	14 days	1-L plastic non preserved
pH	EPA 150.1	Electrometric	N/A	48 hours	
Conductance,	EPA 120.1	Conductivity Meter	N/A	28 days	
TDS	EPA 160.1	Gravimetric	50.0 mg/L	7 days	
Dissolved Ions					
Chloride	EPA 300.0	Ion Chromotography	1.0 mg/L	28 days	1-L poly, Field Filtered No preservative
Fluoride			0.20 mg/L	28 days	
Bromide			2.0 mg/L	28 days	
Sulfate			2.0 mg/L	28 days	
Nitrate/Nitrite			0.10 mg/L	48 hours	
Ammonium Perchorate	SW846 9058	Spectrophotometer	5ug/L	28 days	500mL poly, no preservative
Nutrients					
Ammonia(NH_3+NH_4)	EPA 350.1	Colorimetric	0.1 mg/L	28 days	1-L poly, H_2SO_4, pH<2
TKN	EPA 351.2		0.1 mg/L		
Total Phosphorous	EPA 365.1		0.01 mg/L		
Total Metals					
Aluminum, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Magnesium, Manganese, Molybdenum, Nickel, Selenium, Silicon, Silver, Strontium, Tin, Vanadium, Zinc	SW846 6010B	ICP/AES	Aluminum 5.0 mg/L; Barium 0.1 mg/L; Beryllium 2 mg/L; Boron 0.75 mg/L; Cadmium 0.01 mg/L; Calcium 1.0 mg/L; Chromium 0.05 mg/L; Cobalt 0.05 mg/L; Copper 1.0 mg/L; Iron 1.0 mg/L; Magnesium 1.0 mg/L; Manganese 0.2 mg/L; Molybdenum 1.0 mg/L; Nickel 0.2 mg/L; Selenium 0.05 mg/L; Silicon 10 mg/L; Silver 0.05 mg/L; Strontium 1 mg/L; Tin 1 mg/L; Vanadium 1 mg/L; Zinc 10.0 g/L	180 days	500 ml plastic, HNO_3, pH <2
Lead	SW846 7421	AA-GF	0.05 mg/L		
Arsenic	SW846 7060A	AA-GF	0.1 mg/L		
Mercury	SW846-7470	Cold Vapor-AA	0.002 mg/L	28 days	
Chromium $^{6+}$	SW846 7196A	Spectrophotometer	2 µg/L	**24 hours**	1-liter plastic, ~~NaOH, pH>12~~
Dissolved Metals					
Aluminum, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Potassium, Selenium, Silicon, Silver, Sodium, Strontium, Tin, Vanadium, Zinc	SW846 6010B	ICP/AES	Aluminum 5.0 mg/L; Barium 0.1 mg/L; Beryllium 2 mg/L; Boron 0.75 mg/L; Cadmium 0.01 mg/L; Calcium 1.0 mg/L; Chromium 0.05 mg/L; Cobalt 0.05 mg/L; Copper 1.0 mg/L; Iron 1.0 mg/L; Lithium 0.5 mg/L; Magnesium 1.0 mg/L; Manganese 0.2 mg/L; Molybdenum 1.0 mg/L; Nickel 0.2 mg/L; Potassium 5 mg/L; Selenium 0.05 mg/L; Silicon 10 mg/L; Silver 0.05 mg/L; Sodium 1 mg/L; Strontium 1 mg/L; Tin 1 mg/L; Vanadium 1 mg/L; Zinc 10.0 mg/L	180 days	500ml ~~1-L poly~~, field filtered and then preserved with HNO_3
Lead	SW846 7421	AA-GF	0.05 mg/L		
Arsenic	SW846 7060A	AA-GF	0.1 mg/L		

Organics

Volatile Organic Compounds	SW846 8260A	Gas Chromatography/ Mass Spectrometry	2-Butanone 5.0 µg/L 2-Hexanone 5.0 µg/L 4-Methyl-2-pentanone 5.0 µg/L Acetone 10.0 µg/L Bromomethane 2.5 µg/L Chloroethane 2.5 µg/L Chloromethane 2.0 µg/L Dichlorodifluoromethane 2.0 µg/L Methylene chloride 5.0 µg/L Other 8260 compounds 1.0 µg/L	14 days	3-40 ml, HCl
Petroleum Hydrocarbons	EPA 8015 (mod) DRO&GRO	Gas Chromatography	0.1 mg/L	14 days	3-40 ml, each HCl, pH<2
Semivolatile Organic Compounds	SW846 8270	Gas Chromatography/ Mass Spectrometry	2,4,5-Trichlorophenol 25 µg/L 2,4-Dinitrophenol 50 µg/L 2-Nitroaniline 50 µg/L 3-Nitroaniline 50 µg/L 4,6-Dinitro-2-methylphenol 50 µg/L 4-Nitroaniline 20 µg/L 4-Nitrophenol 50 µg/L Benzoic acid 50 µg/L Benzyl alcohol 20 µg/L Pentachlorophenol 50 µg/L All other 8270 compounds 10 µg/L	7/40 days	1-1 ltr amber no preservative
Explosives	SW846-8330	HPLC	1,3,5-Trinitrobenzene 0.39 µg/L 1,3-Dinitrobenzene 0.13 µg/L 2-Amino-4,6-dinitrotoluene 0.13 µg/L 4- Amino-2,6-dinitrotoluene 0.13 µg/L Other explosive compounds 0.26 µg/L	7/40 days	2-1 ltr ambers no preservative
Pesticides	SW846 8081	Gas Chromatography	Aldrin 0.02 ug/L Alpha-BHC 0.02 ug/L Beta-BHC 0.02 ug/L Delta-BHC 0.02 ug/L Gamma-BHC(Lindane) 0.02 ug/L Chlordane(Total) 0.10 ug/L 4,4'-DDD 0.02 ug/L 4,4'-DDE 0.03 ug/L 4,4'-DDT 0.03 ug/L Dieldrin 0.02 ug/L Endosulfan I 0.03 ug/L Endosulfan II 0.03 ug/L Endosulfan Sulfate 0.03 ug/l Endrin 0.05 ug/L Endrin Aldehyde 0.05 ug/L Endrin Ketone 0.04 ug/L Heptachlor 0.03 ug/L Heptachlor Epoxide 0.03 ug/L Methoxychlor 0.03 ug/L Toxaphene 0.10 ug/L	7/40 days	2-1 ltr ambers no preservative
Herbicides	SW846 8151	Gas Chromatography	Dalapon 1.0 ug/l 2,4-DB 0.2 ug/L Dicamba 0.2 ug/L 2,4-D 0.2 ug/L Dichoroprop 0.2 ug/L Dinoseb 0.2 ug/L MCPA 10 ug/L MCPP 10 ug/L Silvex 0.2 ug/L 2,4,5-T 0.2 ug/L	7/40 days	2-1 ltr ambers no preservative
TOC	SW846-9060	TOC analyzer	1.0 mg/L	28 days	2-40 ml, H_2SO_4, pH<2 (QA lab gets 1-250mL amber)

* Variation in laboratory detection limits may occur due to elevated TDS levels and instrument sensitivity

** Where two number are listed, the first represents the hold time before extraction; the second, holding time following extraction