MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory
QC Report
#48664

Foster Wheeler Environmental, Inc
(continued)

QC Batch #86832 Perchlorate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1027212		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	20.5	102.5	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	21.7	108.5	(90.00 - 110.00)	5.7
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	19.5	97.5	(75.00 - 125.00)	
MSD	Perchlorate	20.0	20.7	103.5	(75.00 - 125.00)	6.0

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES

November 17, 1998

Foster Wheeler Environmental
611 Anton Blvd Suite 800
Costa Mesa, CA.92626

Attention: Mark Cutler

Re: Report # 48665 (MW-984-042, -008)

Dear Mark,

Enclosed please find data deliverables for the recent JPL project. A detailed quality control (QC) summary follows:

Non-conformance (LCS, MS/MSD, Surrogates, and Holding Times):
None
Samples requiring dilution (with increased MRL's):
None
Method blanks with compounds detected:
None
Other Comments:
Pacific Analytical, Inc, utilizing EPA method 1625C, analyzed n-Nitrosodimethylamine, NDMA. This is a Gas Chromatographic Mass Spectroscopic methodology utilizing Isotope dilution in Specific Ion Mode, GCMS-SIM. The Reporting limit is 0.03 ppb or 30 ppt. Any detects below the MRL, but above the MDL of 0.005 ppb, would show on the Quantitation Results page. Results below 0.030 ppb but above 0.005 are DNQ, Detect Not Quantifiable. 0.020 ug/ml (sample concentration, 0.020 ppb) is the lowest standard analyzed with the calibration. All samples are Non Detect, ND.

MS/MSD is not performed on the NDMA sample. MS/MSD is not required for Isotope dilution methods and is not required by the project QAPP for this analyte.

1,4-Dioxane is analyzed by EPA method 8270 in the standard operating mode. This is a Gas Chromatographic Mass Spectroscopic methodology. The Minimum Reporting Level is 3.0 ppb. All samples are ND.
TICS:
None
Method Variance:
None

Sincerely,

Debbie Frank
Project Manager

cc: Judy Novelly (JPL)

a Division of Montgomery Watson Americas, Inc.

555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400
Fax: 626 568 6324

4820 South Mill Avenue
Suite 202
Tempe, Arizona 85282
Tel: 602 755 8201
Fax: 602 755 8203

Quality Environmental Analysis

Montgomery Watson Laboratories
, Los Angeles, CA 90051-3508
PHONE: 626-568-6400/FAX: 626-568-6324

ACKNOWLEDGMENT OF SAMPLES RECEIVED

Foster Wheeler Environmental, Inc
611 Anton Boulevard
Suite 800
Costa Mesa, CA 92626
Attn: Mark Cutler

Customer Code: ENSERCH
PO#: Sub PO#007618-0004
Group#: 48665
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

The following samples were received from you on 10/27/98. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using Montgomery Watson Laboratories.

Sample#	Sample Id	Matrix	Tests Scheduled	Sample Date
981027216	MW-984-042	Water	@DIOXANE CUSTOMMS	10/27/98
981027217	MW-984-008	Water	@DIOXANE CUSTOMMS	10/27/98

Test Acronym Description

Test Acronym	Description
@DIOXANE	1,4-Dioxane
CUSTOMMS	Custom GCMS Analysis

NUMBER 2100

48665

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PROJECT: JPL

OFS NO.: 1572.0260

PROJECT ADDRESS: 4800 OAK GROVE DR., PASADENA, CA

SAMPLER (Name): J. BIZONNEC

SAMPLER (Signature): [illegible]

LABORATORY: MONTGOMERY WATSON LABS

REPORTS TO BE SENT TO: MR. MARK CUTLER

HAZARD IDENTIFICATION: Non Hazard ☒ Reactive ☐ Flammable ☐ Toxic ☐ Skin Irritant ☐ Infectious ☐

TIME REQUIRED: NORMAL ☒ ____ DAYS; RUSH ☐ ____ DAYS

ANALYSES REQUIRED

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL: WATER	SAMPLE MATERIAL: SOIL	SAMPLE MATERIAL: OTHER (Describe)	1,4-Dioxane	NDMA
MW-954-002	0925	10/27/99	2	2 x 1 l	X			X	X
MW-954-002	1145	10/27/99	2	2 x 1 l	X			X	X

LABORATORY INSTRUCTIONS/COMMENTS

Low ppt water

RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)	RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)
COMPANY	TIME	COMPANY	COMPANY	TIME	COMPANY

F-2

SHIPPING COPY

MONTGOMERY LABORATORIES COOLER RECEIPT FORM

PROJECT: ENSERCH Date Received: 10-27-98

Use other side of this form to note further details concerning check-in problems and to describe any action(s) regarding the resolution(s) of problems.

A. PRELIMINARY EXAMINATION: Date cooler opened: 10-27-98

by (print) Mike Chhoeung (sign) [signature]

1. Did cooler come with shipping slip (air bill, etc.)? Yes **No**
   If YES, attach & enter carrier and air bill # here: _____

2. Were custody seals on outside of cooler? **Yes** No
   If YES, how many & where: 2 out-side cooler
   If Yes, enter the following: seal date: 10-27-98 seal name: BP

3. Were custody seals unbroken & intact at delivery? **Yes** No

4. Were custody papers sealed in bag & taped to lid? Yes **No**

5. Were custody papers filled out properly (ink, etc.) **Yes** No

6. Did you sign custody papers in appropriate place? **Yes** No

7. Was project identifiable from custody papers? **Yes** No

8. Have designated person(s) initial to acknowledge receipt: _____(date)_____

B. LOG-IN PHASE: Date samples were logged-in: _____ by:
   (print)_____(sign)_____

9. Describe packing:

10. If required, was enough ice used? **Yes** No

11. Were all bottles sealed in separate plastic bags? **Yes** No

12. Did all bottles arrive unbroken/in good condition? **Yes** No

13. Were all bottle labels complete (ID,date,sign,pres)? **Yes** No

14. Did all bottle labels agree with custody papers? **Yes** No
    If NO, indicate descrepancies on back.

15. Were correct containers useed for the analytes? **Yes** No

16. Were correct preservatives used when required? **Yes** No

17. Was sufficient amount of sample sent for tests? **Yes** No

18. Bubbles absent in VOA vials? **Yes** No
    If NO, list by sample id on back.

19. Was Client Services informed of problems? Yes **No**

Montgomery Watson Laboratories
555 East Walnut Street
Pasadena, CA 91101
Ph (626) 568-6400 Fax (626) 568-6324

Submittal Form

Date 10/28/98

48665

98-2566

Sub Lab Reference#

MWL Project # 48665 SubPO# 98-2566

Please refer to the MWL Project Number on all reports and invoices

For prompt payment, send report & invoice to attention of: **Martha Frost,** Sub-Contract Administrator, ext 6437

Ship To **Steve Parsons**
Pacific Analytical, Inc
6349 Paseo del Lago
Carlsbad, CA 92009

(760) 438-3100

Report Due ~~11/12/98~~ 21d

Format required: **VERBAL+FAX with QC+HARDCOPY**

(California State requires Hard Copy report for California Clients)

REPORT DUE XX

1. BATCH QC DATA: Duplicate expected values & recoveries; Lab Control Samples) expected values & recoveries; method blank recoveries; Matrix Spike expected values & recoveries.
2. Sample extraction Date and Sample analysis Date.
4. Sample dilution factor.
5. Sample surrogate recovery & Sample Internal Standard recovery or IS area count in cover letter.
6. A cover letter explaining any missed criteria or discrepancies.

If you have any questions about the samples, please call MWL proj mgr Hillary Strayer 626-568-6412

Please notify us if the report due date will not be met so we may inform our client.

Special Requirements

DEB

Qty	Test Code	Use MWL Lab # for ID	Client Sample ID for reference only	Analysis Requested	Sample Date	Matrix	Container
1	CUSTOMMS	**981027216**	MW-984-042	NDMA	10/27/98	dw	1 1L AMB GLASS
1	CUSTOMMS	**981027217**	MW-984-008	NDMA	10/27/98	dw	1 1L AMB GLASS

Relinquished by: Martin DeMesa Sample Control 10/28/98

Received by: _____ _____

An Acknowledgement of Receipt is requested.

Report Summary of positive results, PR48665

			Result	MDL	UNITS
Analyzed	981027216	MW-984-042			
11/03/98	Custom GCMS Analysis		see attchd		NONE
Analyzed	981027217	MW-984-008			
11/03/98	Custom GCMS Analysis		see attchd		NONE

NOV 3 RECD

ENSERCH
48614
48665
48735

PACIFIC
ANALYTICAL, INC.

6349 Paseo Del Lago • Carlsbad, CA 92009
(760) 438-3100 • FAX (760) 931-9479

NARRATIVE REPORT
Method 1625C Semivolatiles

PA Reference: N50. 11/05/98

Samples: 981026103, 981027216, 981027217,
981028243, 981028244, 981028245.

Semivolatiles analysis:

The samples were extracted and analyzed by Method 1625C, modified for the lowest possible detection limits. A 1000 mL aliquot was spiked with 1.0 ug of deuterated N-Nitrosodimethylamine-d6 and extracted with liquid-liquid extractors for 24 hours. The sample extract was concentrated to a final volume of 1.0 mL and then spiked with 1.0 ug of 2,2'-Difluorobiphenyl as an internal recovery standard. The extract was analyzed by GC/MS with the mass spectrometer operating in the "Specific Ion Mode" for greater sensitivity and lower detection limits. The instrument was calibrated with five initial calibration standards ranging from 0.02 ug/mL to 1.00 ug/mL. A recent minimum detection limit study suggests that the instrument is capable of detecting N-Nitrosodimethylamine (NNDMA) at 0.005 ug/mL. However for reporting purposes, our detection limit is 0.03 ug/mL which translates to a sample concentration of 0.03 ug/L.

On-Going Precision and Recovery

A laboratory blank (P&R) was spiked with 0.10 ug of NNDMA and its labeled analog, and extracted and analyzed like a sample for each analytical batch. Recoveries for NNDMA and its label were within method specified recovery limits.

Blanks

A laboratory blank was extracted and analyzed like the sample with each extraction batch. NNDMA was not detected at or above our report limit of 0.03 ug/L.

Sample

The samples 981026103, 981027216, 981027217, 981028243, 981028244, and 981028245 are clean with no NNDMA detected at a concentration greater than or equal to our MDL of 0.005 ug/L.

The data package consists of a summary page followed by a chromatogram and a close up of the extracted ion current profile of NNDMA and its label. This is followed by the raw data printout with areas and scan numbers, and finally a "Quantitation Results" page which lists extract concentrations in ug/mL.

Please contact Mark Gregg or Steve Parsons at (706) 438-3100 if there are any questions concerning this data package.

Mark Gregg
GC/MS Chemist

SAMPLE IDENTIFICATION CROSS REFERENCE TABLE
MONTGOMERY WATSON LAB

JOB N50

MWL Lab #	TAG #	MWL Project #	Client Sample ID	PA's Lab ID	Raw Data File Name
981026103	01490	48614	MW-984-075	N5001	6K03A15
981027216	01501	48665	MW-984-042	N5003	6K03A17
981027217	01509	48665	MW-984-008	N5002	6K03A16
981028243	01540	48735	MW-984-031	N5005	6K03A19
981028244	01553	48735	MW-984-039	N5006	6K03A20
981028245	01569	48735	MW-984-015	N5004	6K03A18

Montgomery Watson Laboratories
555 East Walnut Street
Pasadena, CA 91101
Ph (626) 568-6400 Fax (626) 568-6324

Submittal Form

Date 10/27/98

48614

98-2561

Sub Lab Reference#

MWL Project # 48614 SubPO# 98-2561

Please refer to the MWL Project Number on all reports and invoices

For prompt payment, send report & invoice to attention of: **Martha Frost**, Sub-Contract Administrator, ext 6437

Ship To **Steve Parsons**
Pacific Analytical, Inc
6349 Paseo del Lago
Carlsbad, CA 92009

(760) 438-3100

Report Due 11/11/98

Format required: **FAX with QC+HARDCOPY**

(California State requires Hard Copy report for California Clients)

See attached for ALL QC INFORMATION THAT IS REQUESTED
1. BATCH QC DATA: Duplicate expected values & recoveries; Lab Control Samples) expected values & recoveries; method blank recoveries; Matrix Spike expected values & recoveries.
2. Sample extraction Date and Sample analysis Date.
4. Sample dilution factor.
5. Sample surrogate recovery & Sample Internal Standard recovery or IS area count in cover letter.
6. A cover letter explaining any missed criteria or discrepancies.

If you have any questions about the samples, please call MWL proj mgr Hillary Strayer 626-568-6412

Please notify us if the report due date will not be met so we may inform our client.

Special Requirements

DEB

Qty	Test Code	Use MWL Lab # for ID	Client Sample ID for reference only	Analysis Requested	Sample Date	Matrix	Container
1	CUSTOMMS NDMA	981026103	MW-984-075	N-Nitrosodimethylamine	10/26/98	ww	2 1L amber glass / no preservative

00000

Relinquished by: Martin DeMesa Sample Control 10/27/98

An Acknowledgement of Receipt is requested

Montgomery Watson Laboratories
555 East Walnut Street
Pasadena, CA 91101
Ph (626) 568-6400 Fax (626) 568-6324

Submittal Form

Date 10/28/98

48665
98-2566

MWL Project # 48665 SubPO# 98-2566

Please refer to the MWL Project Number on all reports and invoices

Sub Lab Reference#

For prompt payment, send report & invoice to attention of: **Martha Frost**, Sub-Contract Administrator, ext 6437

Ship To **Steve Parsons**
Pacific Analytical, Inc
6349 Paseo del Lago
Carlsbad, CA 92009

(760) 438-3100

Report Due 11/12/98

Format required: **VERBAL+FAX with QC+HARDCOPY**
(California State requires Hard Copy report for California Clients)

REPORT DUE XX

1. BATCH QC DATA: Duplicate expected values & recoveries; Lab Control Samples) expected values & recoveries; method blank recoveries; Matrix Spike expected values & recoveries.
2. Sample extraction Date and Sample analysis Date.
4. Sample dilution factor.
5. Sample surrogate recovery & Sample Internal Standard recovery or IS area count in cover letter.
6. A cover letter explaining any missed criteria or discrepancies.

If you have any questions about the samples, please call MWL proj mgr Hillary Strayer 626-568-6412
Please notify us if the report due date will not be met so we may inform our client.

Special Requirements

DEB

Qty	Test Code	Use MWL Lab # for ID	Client Sample ID for reference only	Analysis Requested	Sample Date	Matrix	Container
1	CUSTOMMS	981027216	MW-984-042	NDMA	10/27/98	dw	1 1L AMB GLASS
1	CUSTOMMS	981027217	MW-984-008	NDMA	10/27/98	dw	1 1L AMB GLASS

Relinquished by: Martin DeMesa Sample Control 10/28/98

Received by: [illegible]

An Acknowledgement of Receipt is requested.

000004

Montgomery Watson Laboratories
555 East Walnut Street
Pasadena, CA 91101
Ph (626) 568-6400 Fax (626) 568-6324

Submittal Form

Date 10/29/98

48735
98-2573

Sub Lab Reference#

MWL Project # 48735 SubPO# 98-2573

Please refer to the MWL Project Number on all reports and invoices

For prompt payment, send report & invoice to attention of: **Martha Frost**, Sub-Contract Administrator, ext 6437

Ship To **Steve Parsons**
Pacific Analytical, Inc
6349 Paseo del Lago
Carlsbad, CA 92009

(760) 438-3100

Report Due **11/13/98**

Format required: **VERBAL+FAX with QC+HARDCOPY**
(California State requires Hard Copy report for California Clients)

1. BATCH QC DATA: Duplicate expected values & recoveries; Lab Control Samples) expected values & recoveries; method blank recoveries; Matrix Spike expected values & recoveries.
2. Sample extraction Date and Sample analysis Date.
4. Sample dilution factor.
5. Sample surrogate recovery & Sample Internal Standard recovery or IS area count in cover letter.
6. A cover letter explaining any missed criteria or discrepancies.

If you have any questions about the samples, please call MWL proj mgr Hillary Strayer 626-568-6412
Please notify us if the report due date will not be met so we may inform our client.

Special Requirements

DEB

Qty	Test Code	Use MWL Lab # for ID	Client Sample ID for reference only	Analysis Requested	Sample Date	Matrix	Container
1	CUSTOMMS	981028243	MW-984-031	NDMA	10/28/98	dw	1 1L AM GLASS
1	CUSTOMMS	981028244	MW-984-039	NDMA	10/28/98	dw	1 1L AM GLASS
1	CUSTOMMS	981028245	MW-984-015	NDMA	10/28/98	dw	1 1L AM GLASS

00000

Relinquished by: Martin DeMesa Sample Control 10/29/98

Received by: [illegible] 10/29/98

An Acknowledgement of Receipt is requested

ISOTOPE DILUTION
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
FORWARD SEARCH LIST

CLIENT SAMPLE NO.

981026103

Lab Name: PACIFIC ANALYTICAL, INC.
Matrix: WATER
Sample wt/vol: 1000 ml
Concentrated Extract Volume: 1000 ul
Injection Volume: 1 ul
GPC Cleanup: N/A
Fraction: Base/Neutral

Lab Sample ID: N5001
Lab File ID: 6K03A15
Date Sampled: 10/26/98
Date Extracted: 10/30/98
Date Analyzed: 11/03/98
Time Analyzed: 2012

Compound	Concentration (ug/L)	Flags	Labelled Cpd. Recovery
N-Nitrosodimethylamine	0.03	U	120 %

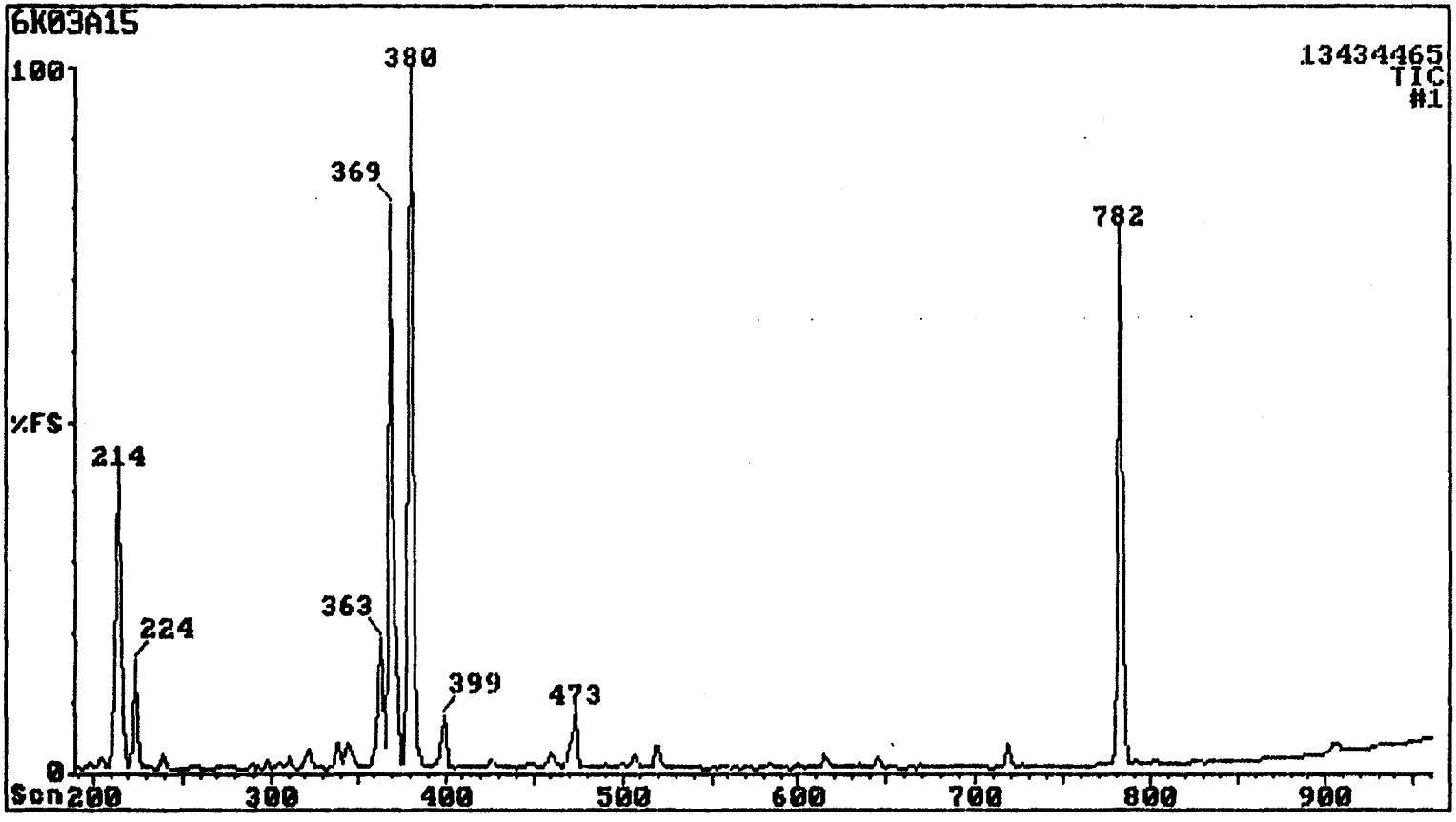
U = Undetected J = Estimated Concentration B = Found in Blank
D = Dilution Results E = Result Exceeds Calibration Curve

MDL = 0.005 ug/L

PQL = 0.03 ug/L

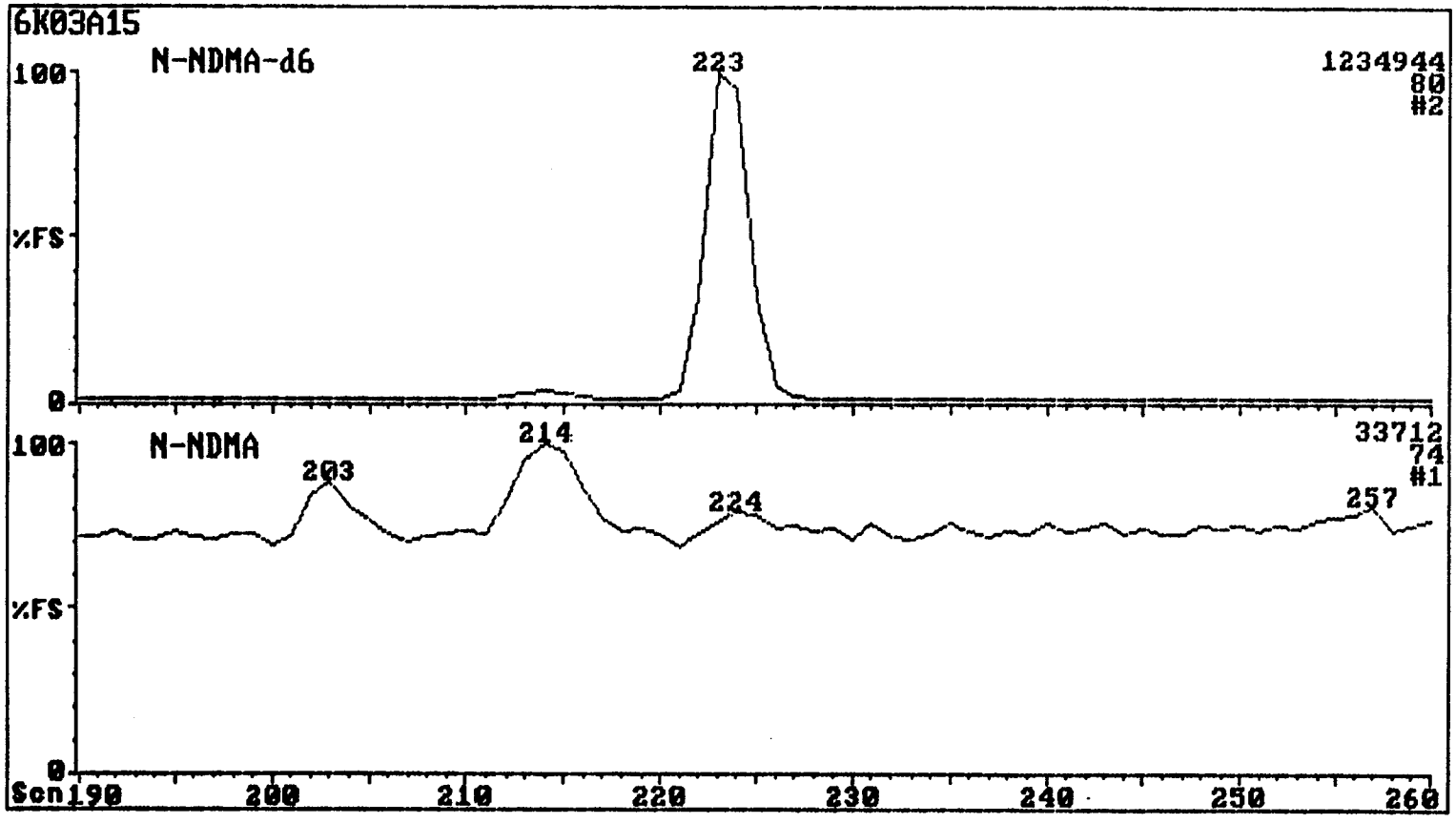
Sample No.: 981026103
Lab File ID: 6K03A15

Analyzed: 11/03/98 2012
Instrument ID: VG06



Sample No.: 981026103
Lab File ID: 6K03A15

Analyzed: 11/03/98 2012
Instrument ID: VG06



000008

Sample: 981026103 N5001 Analyzed: 11/03/98 2012
Lab File: 6K03A15 Instrument ID: 06

Interim Report LAB-BASE FIND 11/04/98 0832

Raw Datafile : 6K03A15 Quan DB : 6K03A15
Find DB : NNDMA Scan DB : NONE

No.	Spectrum MAT	Spectrum FOR	Spectrum REV	Scan Diff	Peak Area	Flgs	Scan Found	Pred	QM	Compound Name
1	100	94	100	0	29297143	?v	782	782	190	2,2'-Difluorobiphenyl
2	100	94	100	0	3214186	b?	223	223	80	N-Nitrosodimethylamine-d6
3	85	63	84	1	634	!!	228	227	74	N-Nitrosodimethylamine
	66	65	89	8	2638	!!	235			

Quantitation Results

EPA Name: 981026103 Lab ID: N5001 Lab File: 6K03A1

Instr: 06 ICAL: 6K03 Acquisition Date: 11/03/98 Acquisition Time: 2012

Compound	Target Conc.	Sample Conc.	Label Rec.	Limits
N-Nitrosodimethylamine	0.00	0.00	119.6	25 - 175

ISOTOPE DILUTION
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
FORWARD SEARCH LIST

CLIENT SAMPLE NO.

981027217

Lab Name: PACIFIC ANALYTICAL, INC.
Matrix: WATER
Sample wt/vol: 1000 ml
Concentrated Extract Volume: 1000 ul
Injection Volume: 1 ul
GPC Cleanup: N/A
Fraction: Base/Neutral

Lab Sample ID: N5002
Lab File ID: 6K03A16
Date Sampled: 10/27/98
Date Extracted: 10/30/98
Date Analyzed: 11/03/98
Time Analyzed: 2039

Compound	Concentration (ug/L)	Flags	Labelled Cpd. Recovery
N-Nitrosodimethylamine	0.03	U	112 %

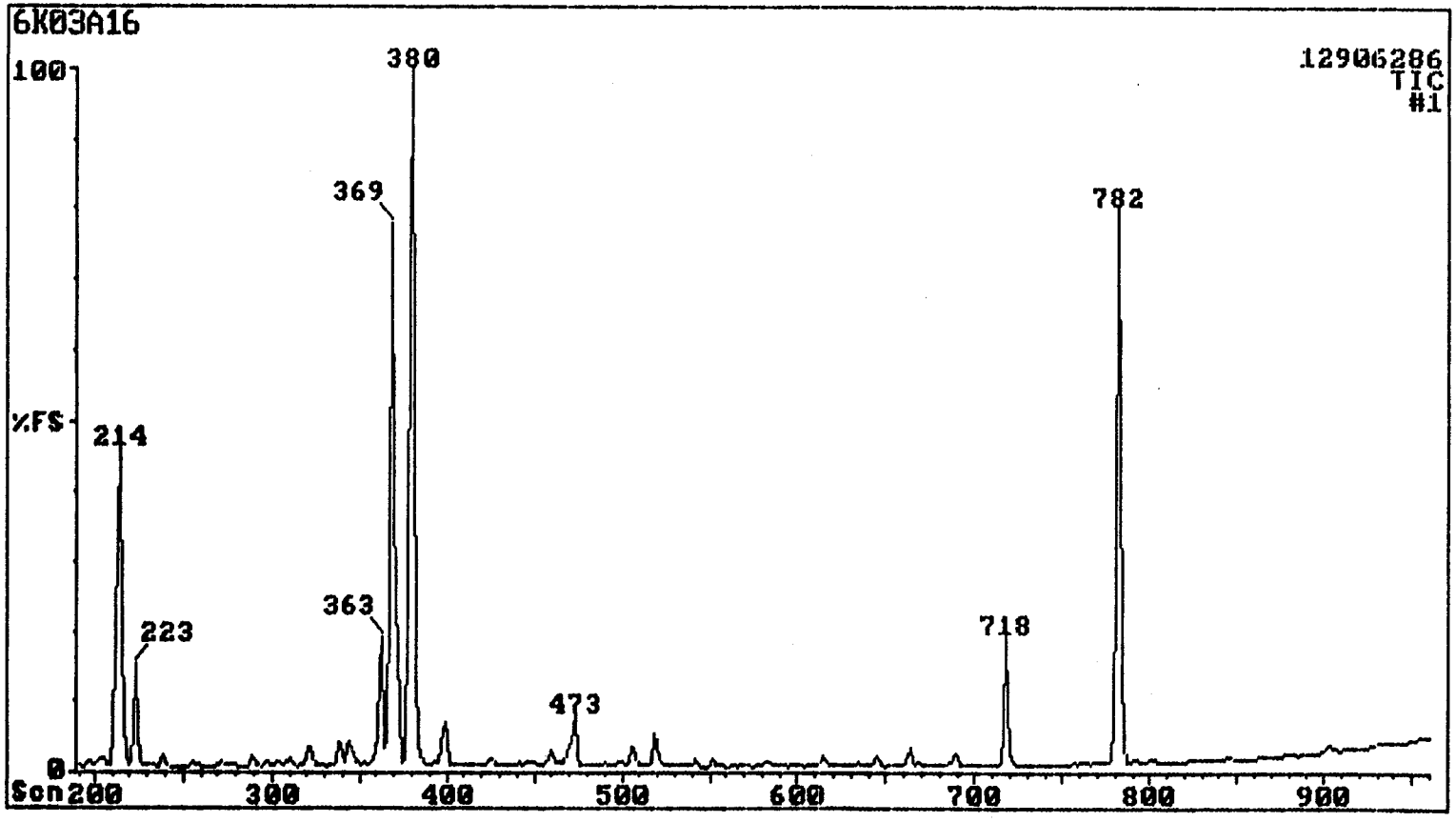
U = Undetected J = Estimated Concentration B = Found in Blank
D = Dilution Results E = Result Exceeds Calibration Curve

MDL = 0.005 ug/L

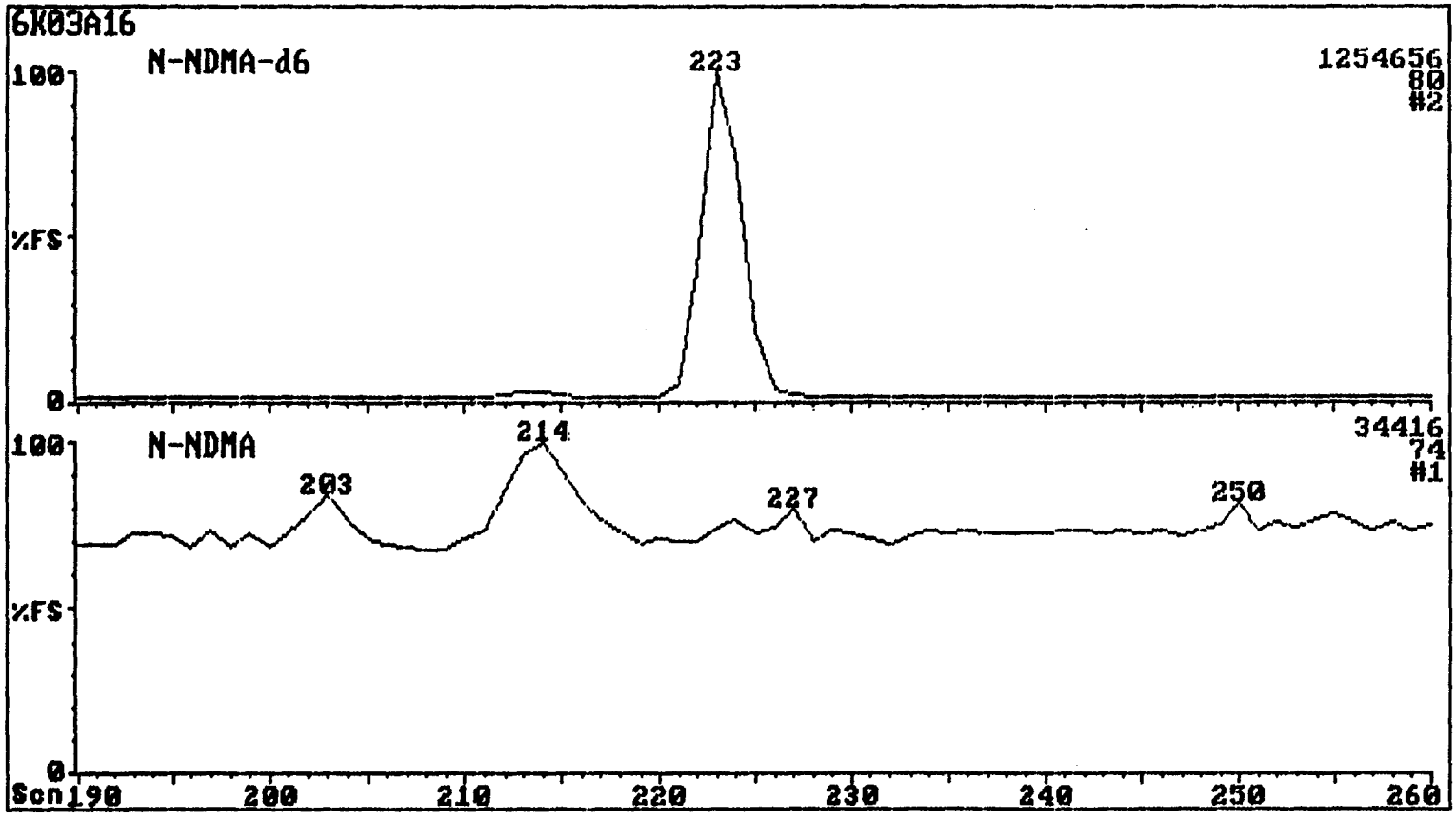
PQL = 0.03 ug/L

Sample No.: 981027217
Lab File ID: 6K03A16

Analyzed: 11/03/98 2039
Instrument ID: VG06



Sample No.: 981027217 Analyzed: 11/03/98 2039
Lab File ID: 6K03A16 Instrument ID: VG06



0000013

Sample: 981027217 N5002 Analyzed: 11/03/98 2039
Lab File: 6K03A16 Instrument ID: 06

Interim Report LAB-BASE FIND 11/04/98 0833

Raw Datafile : 6K03A16 Quan DB : 6K03A16
Find DB : NNDMA Scan DB : NONE

No.	Spectrum MAT	FOR	REV	Scan Diff	Peak Area	Flgs	Scan Found	Pred	QM	Compound Name
1	100	93	100	0	29180250	?v	782	782	190	2,2'-Difluorobiphenyl
2	100	94	99	0	2992472	b?	223	223	80	N-Nitrosodimethylamine-d6
3	93	60	88	0	3720	!!	227	227	74	N-Nitrosodimethylamine
	66	65	89	7	2111	!!	234			

Quantitation Results

EPA Name: 981027217 Lab ID: N5002 Lab File: 6K03A16

Instr: 06 ICAL: 6K03 Acquisition Date: 11/03/98 Acquisition Time: 2039

Compound	Target Conc.	Sample Conc.	Label Rec.	Limits
N-Nitrosodimethylamine	0.00	0.00	111.8	25 - 175

ISOTOPE DILUTION
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
FORWARD SEARCH LIST

CLIENT SAMPLE NO.

981027216

Lab Name: PACIFIC ANALYTICAL, INC.
Matrix: WATER
Sample wt/vol: 1000 ml
Concentrated Extract Volume: 1000 ul
Injection Volume: 1 ul
GPC Cleanup: N/A
Fraction: Base/Neutral

Lab Sample ID: N5003
Lab File ID: 6K03A17
Date Sampled: 10/27/98
Date Extracted: 10/30/98
Date Analyzed: 11/03/98
Time Analyzed: 2105

Compound	Concentration (ug/L)	Flags	Labelled Cpd. Recovery
N-Nitrosodimethylamine	0.03	U	121 %

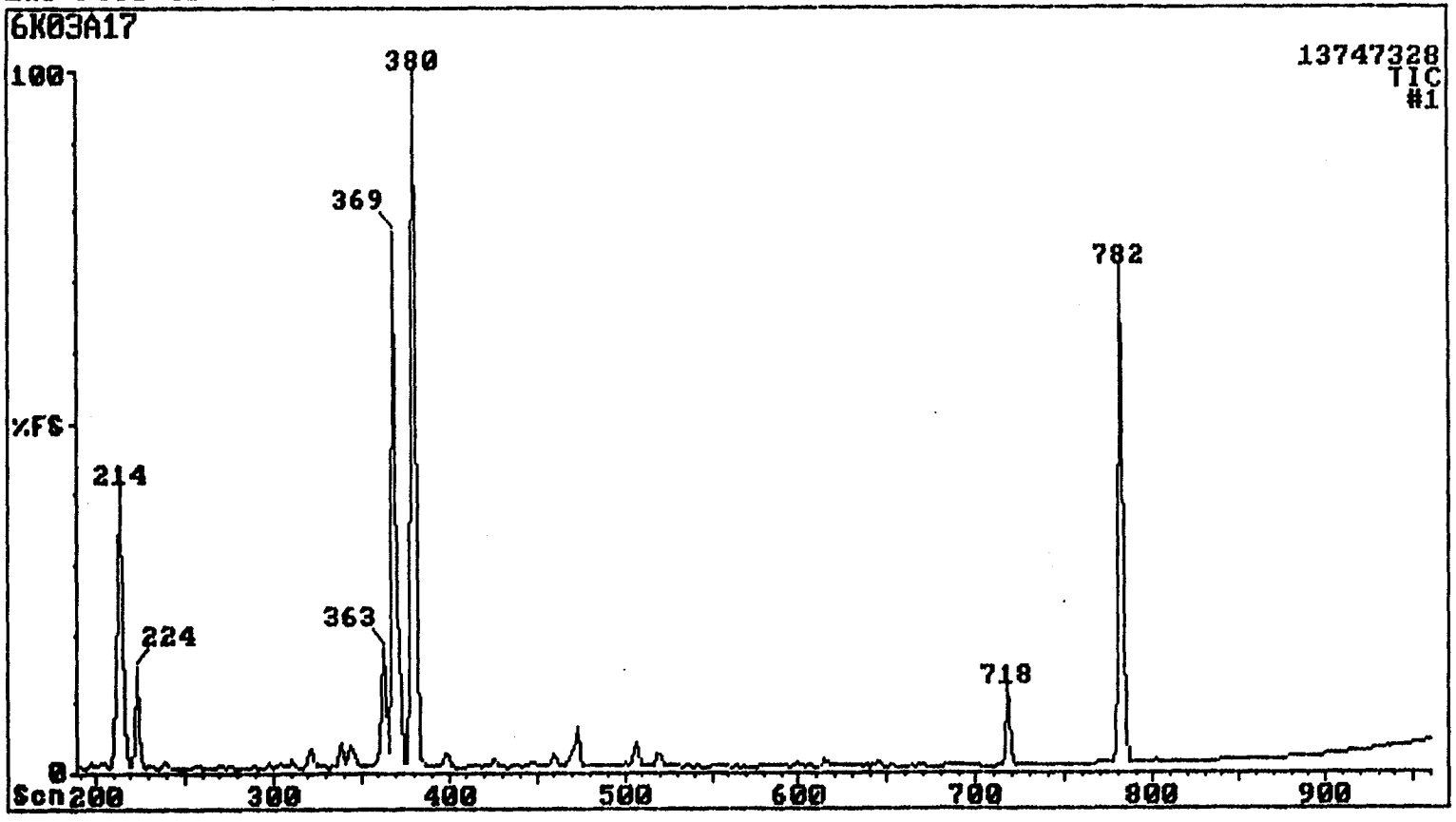
U = Undetected J = Estimated Concentration B = Found in Blank
D = Dilution Results E = Result Exceeds Calibration Curve

MDL = 0.005 ug/L

PQL = 0.03 ug/L

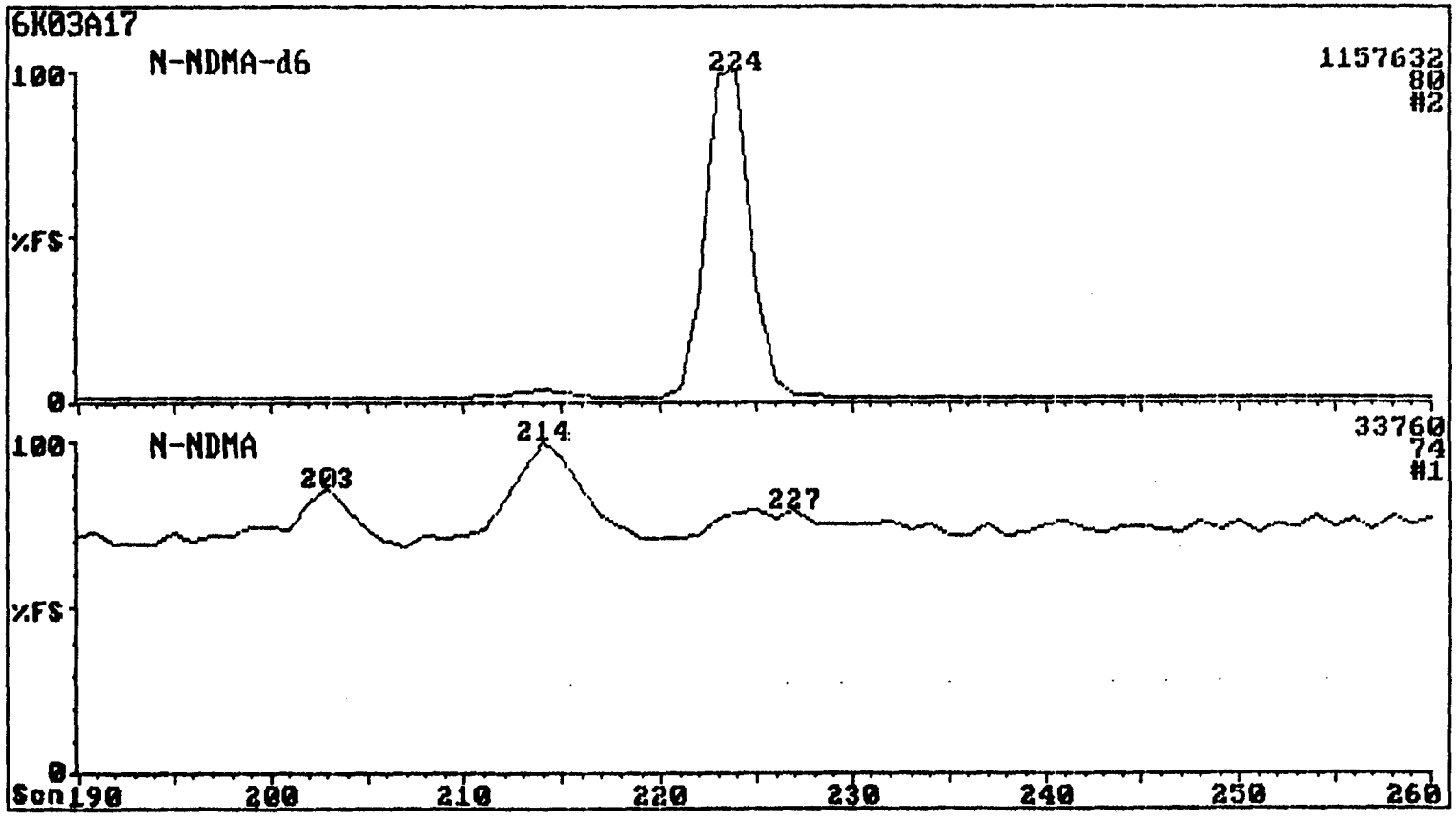
Sample No.: 981027216
Lab File ID: 6K03A17

Analyzed: 11/03/98 2105
Instrument ID: VG06



C00017

Sample No.: 981027216 Analyzed: 11/03/98 2105
Lab File ID: 6K03A17 Instrument ID: VG06



Sample: 981027216 N5003 Analyzed: 11/03/98 2105
Lab File: 6K03A17 Instrument ID: 06

Interim Report LAB-BASE FIND 11/04/98 0834

Raw Datafile : 6K03A17 Quan DB : 6K03A17
Find DB : NNDMA Scan DB : NONE

No.	Spectrum MAT	FOR	REV	Scan Diff	Peak Area	Flgs	Scan Found	Pred	QM	Compound Name
1	100	93	100	0	27455593	?v	782	782	190	2,2'-Difluorobiphenyl
2	100	94	100	1	3058944	bb	224	223	80	N-Nitrosodimethylamine-d6
3	73	65	88	5	1029	!!	233	228	74	N-Nitrosodimethylamine
	62	65	87	9	1124	!!	237			
	44	65	90	13	2600	!!	241			

Quantitation Results

EPA Name: 981027216 Lab ID: N5003 Lab File: 6K03A1

Instr: 06 ICAL: 6K03 Acquisition Date: 11/03/98 Acquisition Time: 2105

Compound	Target Conc.	Sample Conc.	Label Rec.	Limits
N-Nitrosodimethylamine	0.00	0.00	121.5	25 - 175

ISOTOPE DILUTION
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
FORWARD SEARCH LIST

CLIENT SAMPLE NO.

981028245

Lab Name: PACIFIC ANALYTICAL, INC.
Matrix: WATER
Sample wt/vol: 1000 ml
Concentrated Extract Volume: 1000 ul
Injection Volume: 1 ul
GPC Cleanup: N/A
Fraction: Base/Neutral

Lab Sample ID: N5004
Lab File ID: 6K03A18
Date Sampled: 10/28/98
Date Extracted: 10/30/98
Date Analyzed: 11/03/98
Time Analyzed: 2132

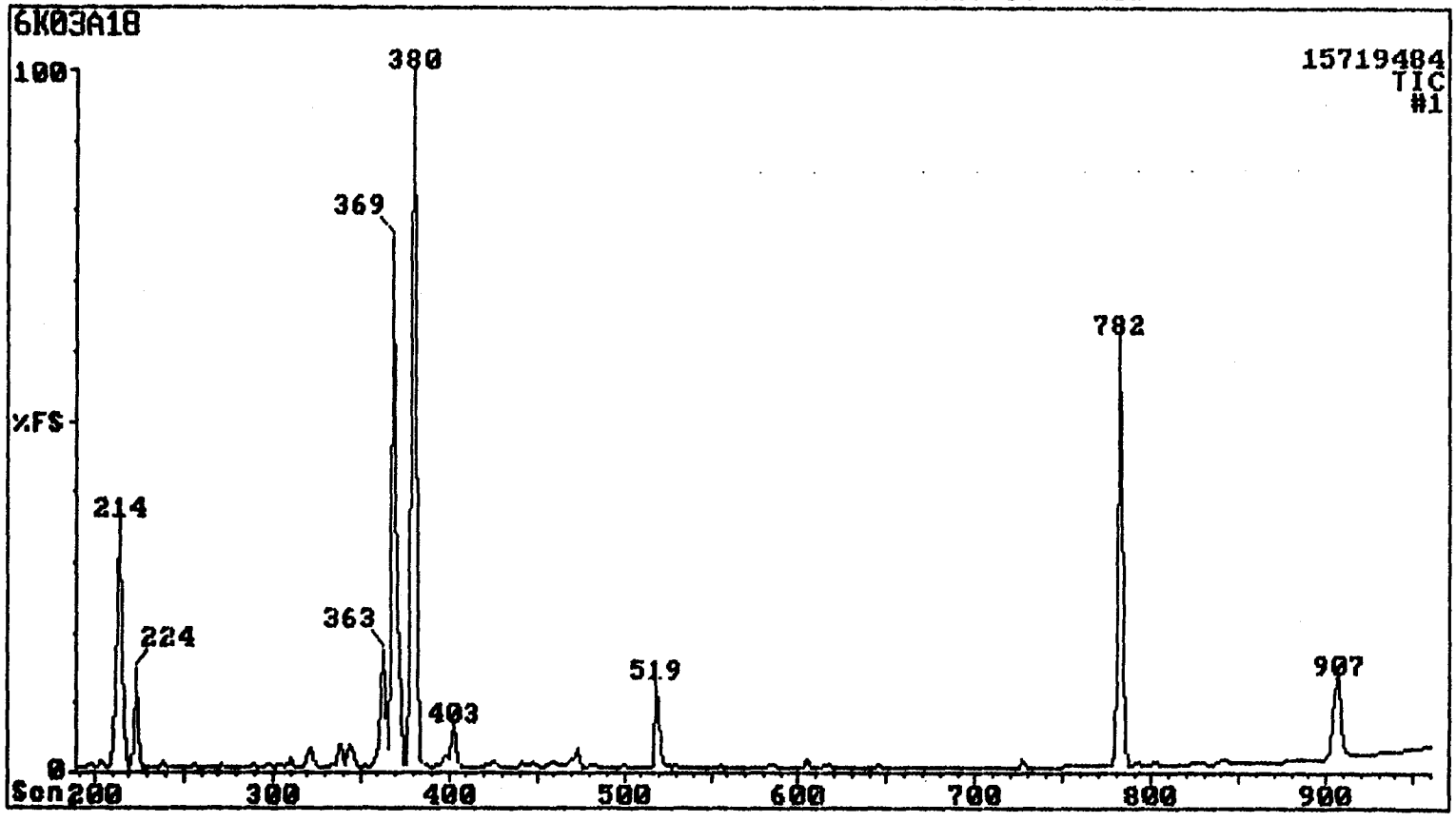
Compound	Concentration (ug/L)	Flags	Labelled Cpd. Recovery
N-Nitrosodimethylamine	0.03	U	142 %

U = Undetected J = Estimated Concentration B = Found in Blank
D = Dilution Results E = Result Exceeds Calibration Curve

MDL = 0.005 ug/L

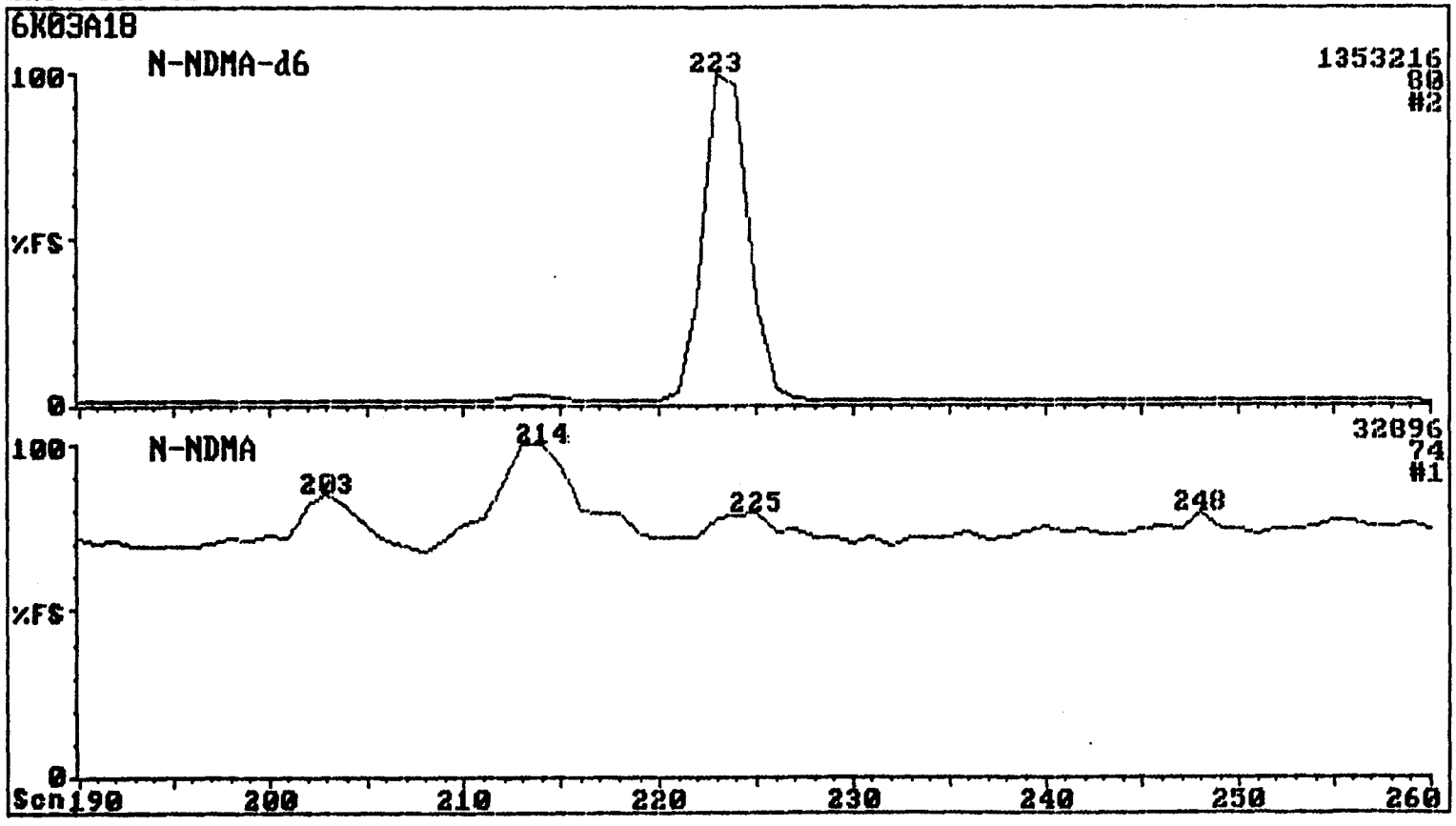
PQL = 0.03 ug/L

Sample No.: 981028245 Analyzed: 11/03/98 2132
Lab File ID: 6K03A18 Instrument ID: VG06



000022

Sample No.: 981028245 Analyzed: 11/03/98 2132
Lab File ID: 6K03A18 Instrument ID: VG06



000023

Sample: 981028245 N5004 Analyzed: 11/03/98 2132
Lab File: 6K03A18 Instrument ID: 06

Interim Report LAB-BASE FIND 11/04/98 0835

Raw Datafile : 6K03A18 Quan DB : 6K03A18
Find DB : NNDMA Scan DB : NONE

No.	Spectrum MAT	Spectrum FOR	Spectrum REV	Scan Diff	Peak Area	Flgs	Scan Found	Pred	QM	Compound Name
1	100	93	100	0	27152167	?v	782	782	190	2,2'-Difluorobiphenyl
2	100	95	100	0	3530314	b?	223	223	80	N-Nitrosodimethylamine-d6
3	90	61	89	0	768	!!	227	227	74	N-Nitrosodimethylamine
	63	64	90	9	1641	!!	236			

Quantitation Results

EPA Name: 981028245 Lab ID: N5004 Lab File: 6K03A1

Instr: 06 ICAL: 6K03 Acquisition Date: 11/03/98 Acquisition Time: 2132

Compound	Target Conc.	Sample Conc.	Label Rec.	Limits
N-Nitrosodimethylamine	0.00	0.00	141.8	25 - 175

ISOTOPE DILUTION
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
FORWARD SEARCH LIST

CLIENT SAMPLE NO.

981028243

Lab Name: PACIFIC ANALYTICAL, INC.
Matrix: WATER
Sample wt/vol: 1000 ml
Concentrated Extract Volume: 1000 ul
Injection Volume: 1 ul
GPC Cleanup: N/A
Fraction: Base/Neutral

Lab Sample ID: N5005
Lab File ID: 6K03A19
Date Sampled: 10/28/98
Date Extracted: 10/30/98
Date Analyzed: 11/03/98
Time Analyzed: 2158

Compound	Concentration (ug/L)	Flags	Labelled Cpd. Recovery
N-Nitrosodimethylamine	0.03	U	130 %

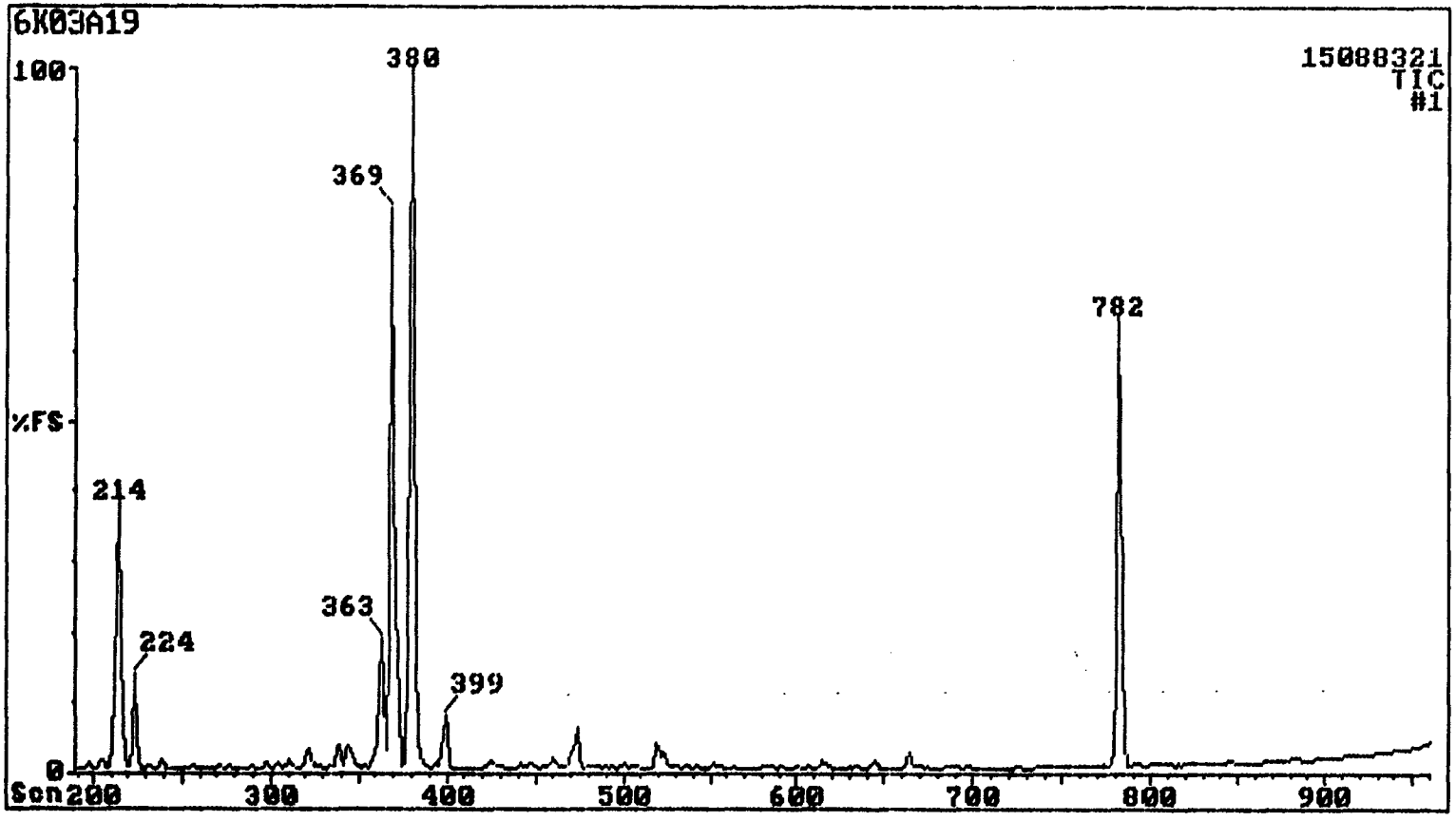
U = Undetected J = Estimated Concentration B = Found in Blank
D = Dilution Results E = Result Exceeds Calibration Curve

MDL = 0.005 ug/L

PQL = 0.03 ug/L

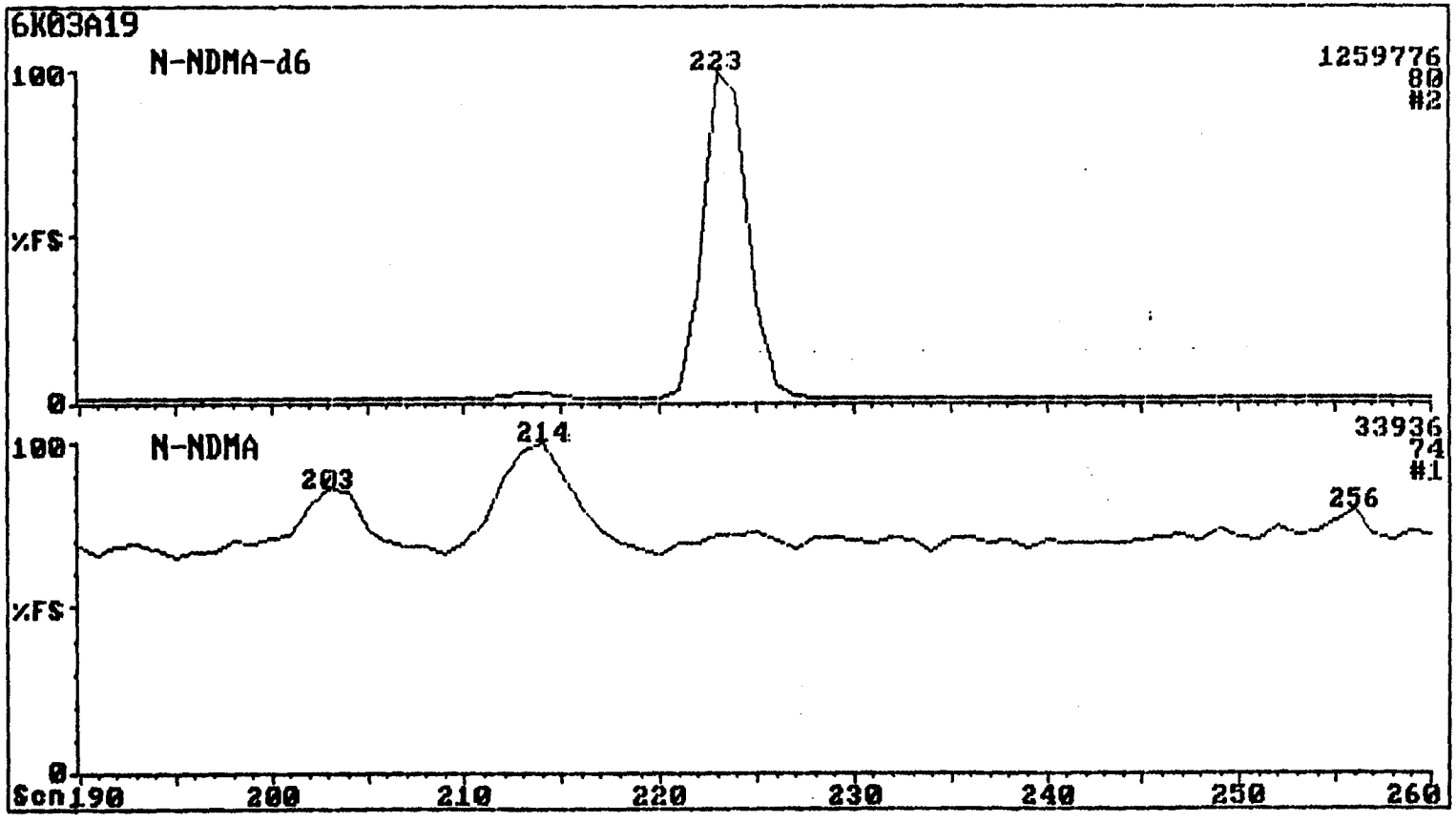
Sample No.: 981028243
Lab File ID: 6K03A19

Analyzed: 11/03/98 2158
Instrument ID: VG06



0000027

Sample No.: 981028243 Analyzed: 11/03/98 2158
Lab File ID: 6K03A19 Instrument ID: VG06



000028

Sample: 981028243 N5005 Analyzed: 11/03/98 2158
Lab File: 6K03A19 Instrument ID: 06

Interim Report LAB-BASE FIND 11/04/98 0836

Raw Datafile : 6K03A19 Quan DB : 6K03A19
Find DB : NNDMA Scan DB : NONE

No.	Spectrum MAT	FOR	REV	Scan Diff	Peak Area	Flgs	Scan Found	Pred	QM	Compound Name
1	100	93	100	0	27178133	?v	782	782	190	2,2'-Difluorobiphenyl
2	100	94	100	0	3244074	b?	223	223	80	N-Nitrosodimethylamine-d6
3	72	64	86	5	1476	!!	232	227	74	N-Nitrosodimethylamine
	63	65	89	8	3204	!!	235			

Quantitation Results

EPA Name: 981028243 Lab ID: N5005 Lab File: 6K03A1

Instr: 06 ICAL: 6K03 Acquisition Date: 11/03/98 Acquisition Time: 2158

Compound	Target Conc.	Sample Conc.	Label Rec.	Limits
N-Nitrosodimethylamine	0.00	0.00	130.1	25 - 175

ISOTOPE DILUTION
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
FORWARD SEARCH LIST

CLIENT SAMPLE NO.

981028244

Lab Name: PACIFIC ANALYTICAL, INC.
Matrix: WATER
Sample wt/vol: 1000 ml
Concentrated Extract Volume: 1000 ul
Injection Volume: 1 ul
GPC Cleanup: N/A
Fraction: Base/Neutral

Lab Sample ID: N5006
Lab File ID: 6K03A20
Date Sampled: 10/28/98
Date Extracted: 10/30/98
Date Analyzed: 11/03/98
Time Analyzed: 2224

Compound	Concentration (ug/L)	Flags	Labelled Cpd. Recovery
N-Nitrosodimethylamine	0.03	U	152 %

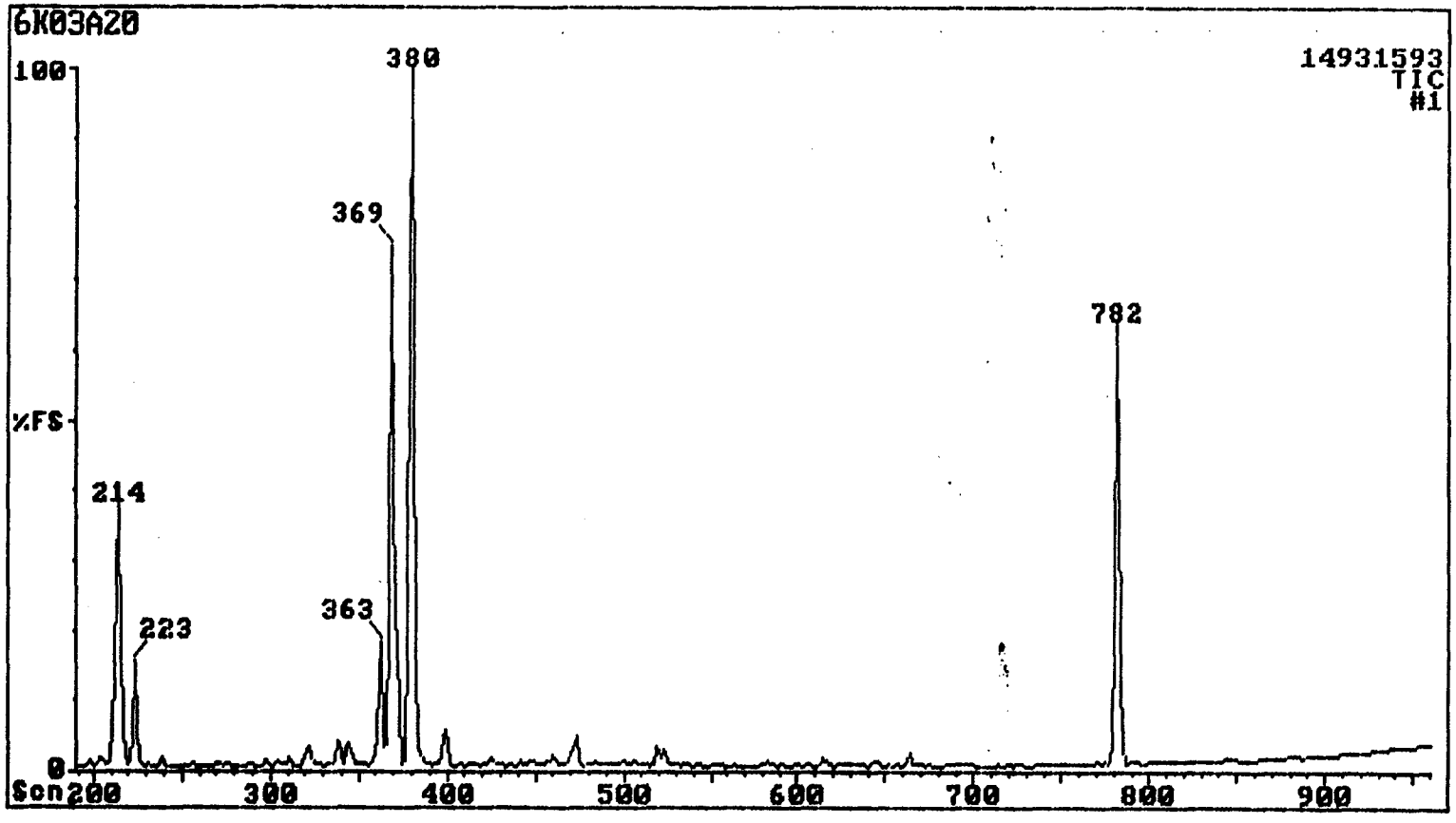
U = Undetected J = Estimated Concentration B = Found in Blank
D = Dilution Results E = Result Exceeds Calibration Curve

MDL = 0.005 ug/L

PQL = 0.03 ug/L

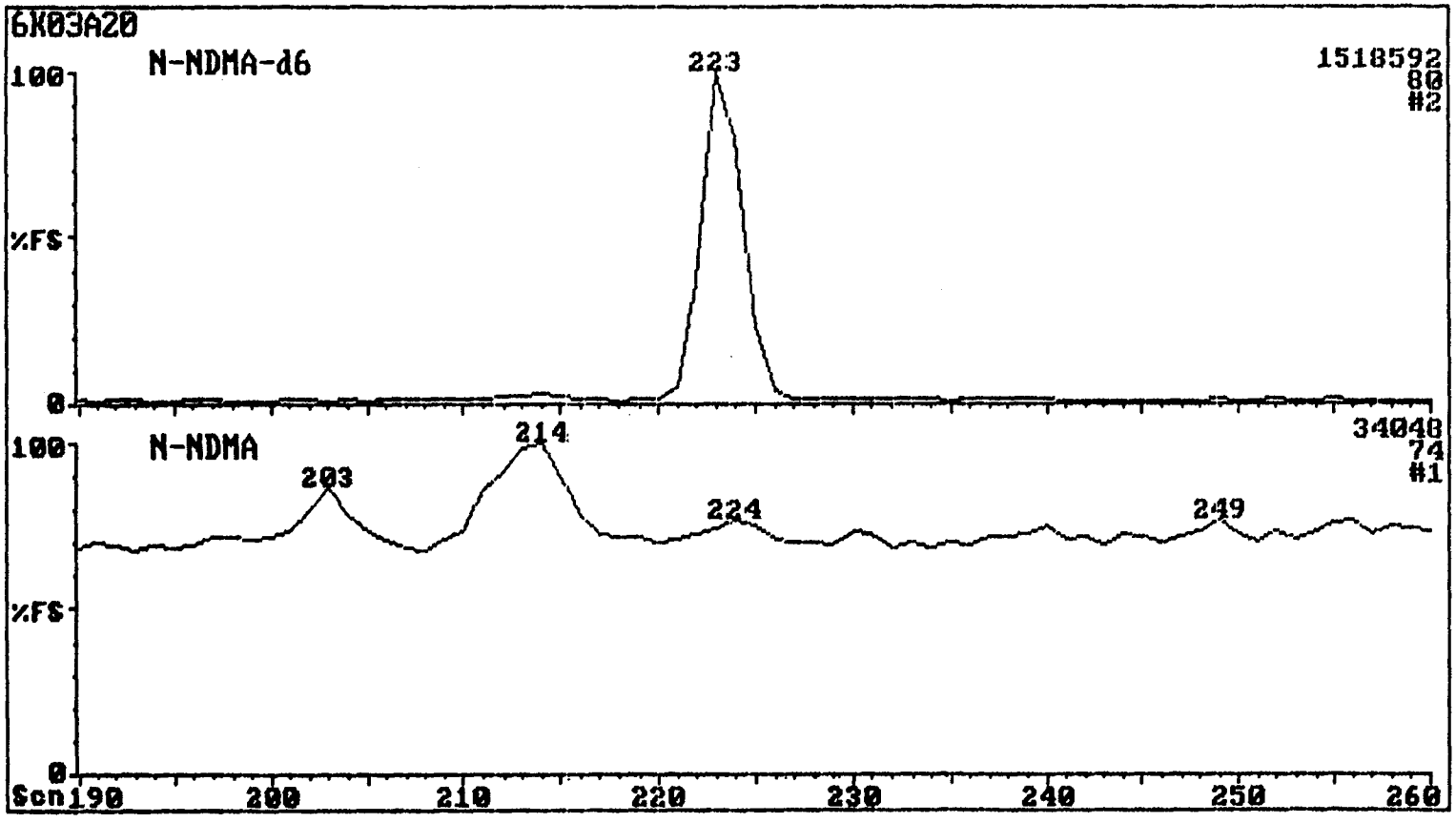
Sample No.: 981028244
Lab File ID: 6K03A20

Analyzed: 11/03/98 2224
Instrument ID: VG06



000032

Sample No.: 981028244 Analyzed: 11/03/98 2224
Lab File ID: 6K03A20 Instrument ID: VG06



000033

Sample: 981028244 N5006 Analyzed: 11/03/98 2224
Lab File: 6K03A20 Instrument ID: 06

==========

Interim Report LAB-BASE FIND 11/04/98 0837

==========

Raw Datafile : 6K03A20 Quan DB : 6K03A20
Find DB : NNDMA Scan DB : NONE

No.	Spectrum MAT	Spectrum FOR	Spectrum REV	Scan Diff	Peak Area	Flgs	Scan Found	Pred	QM	Compound Name
1	100	93	100	0	26480698	?v	782	782	190	2,2'-Difluorobiphenyl
2	100	95	99	0	3680316	b?	223	223	80	N-Nitrosodimethylamine-d6
3	71	63	86	6	488	!!	233	227	74	N-Nitrosodimethylamine
	65	64	87	8	442	!!	235			

Quantitation Results

EPA Name: 981028244 Lab ID: N5006 Lab File: 6K03A2(

Instr: 06 ICAL: 6K03 Acquisition Date: 11/03/98 Acquisition Time: 2224

Compound	Target Conc.	Sample Conc.	Label Rec.	Limits
N-Nitrosodimethylamine	0.00	0.00	151.5	25 - 175

ISOTOPE DILUTION
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA
LABELED COMPOUNDS

Lab Name: PACIFIC ANALYTICAL Instr. ID: VG06

Calibration Date: 11/03/98

LAB FILE IDs:

RF 0.02 = 6K03A06
RF 0.05 = 6K03A07
RF 0.10 = 6K03A08
RF 0.50 = 6K03A09
RF 1.00 = 6K03A10

COMPOUND	RF 0.02	RF 0.05	RF 0.10	RF 0.50	RF 1.00	RF MEAN	% RSD
2 N-Nitrosodimethylamine-	0.079	0.091	0.093	0.093	0.103	0.092	9.0

Internal Standard = 1 ug/mL
Pollutant Compounds = 0.02, 0.05, 0.10, 0.50, 1.00 ug/mL

ISOTOPE DILUTION
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA
COMPOUNDS HAVING A LABELED REFERENCE

Lab Name: PACIFIC ANALYTICAL Instr. ID: VG06

Calibration Date: 11/03/98

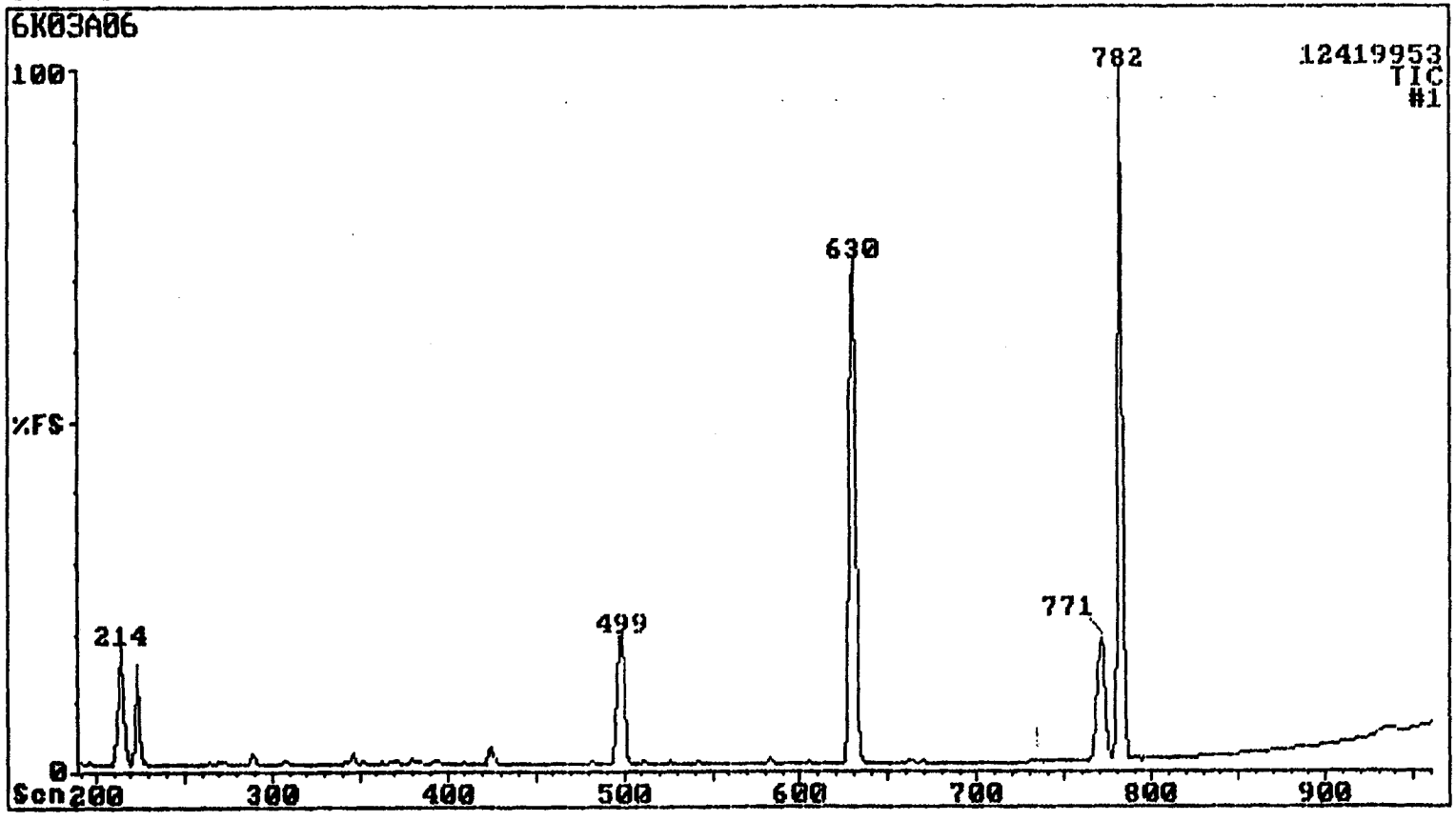
LAB FILE IDs:

RF 0.02 = 6K03A06
RF 0.05 = 6K03A07
RF 0.10 = 6K03A08
RF 0.50 = 6K03A09
RF 1.00 = 6K03A10

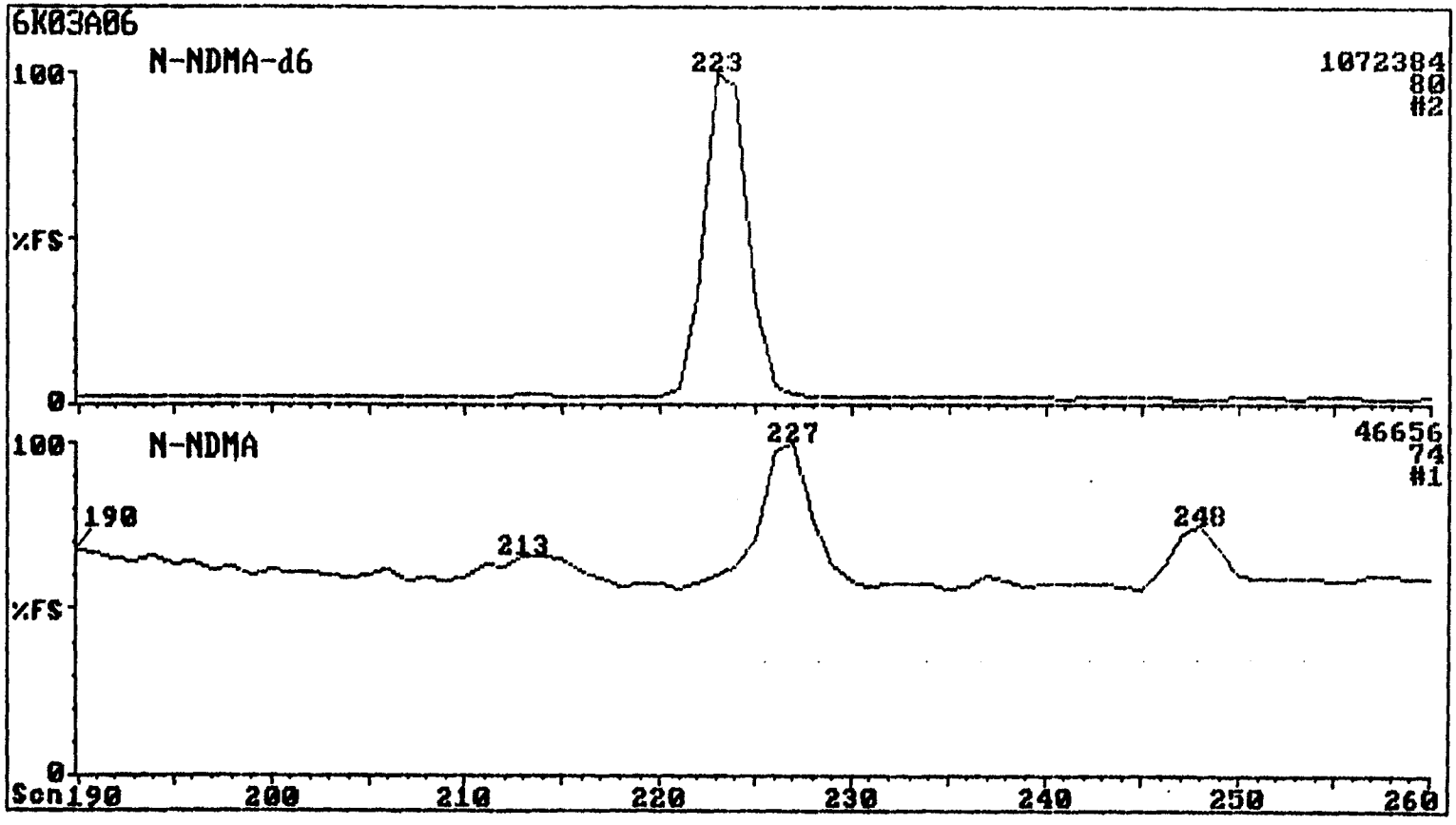
COMPOUND	RR 0.02	RR 0.05	RR 0.10	RR 0.50	RR 1.00	SLOPE	INTCP
3 N-Nitrosodimethylamine	0.019	0.047	0.091	0.476	0.967	1.033	0.003

Internal Standard = 1 ug/mL
Pollutant Compounds = 0.02, 0.05, 0.10, 0.50, 1.00 ug/mL

Sample No.: NNDMA 0.02 Analyzed: 11/03/98 1614
Lab File ID: 6K03A06 Instrument ID: VG06



Sample No.: NNDMA 0.02 Analyzed: 11/03/98 1614
Lab File ID: 6K03A06 Instrument ID: VG06



Sample: NNDMA 0.02 NSTD0.02 Analyzed: 11/03/98 1614
Lab File: 6K03A06 Instrument ID: 06

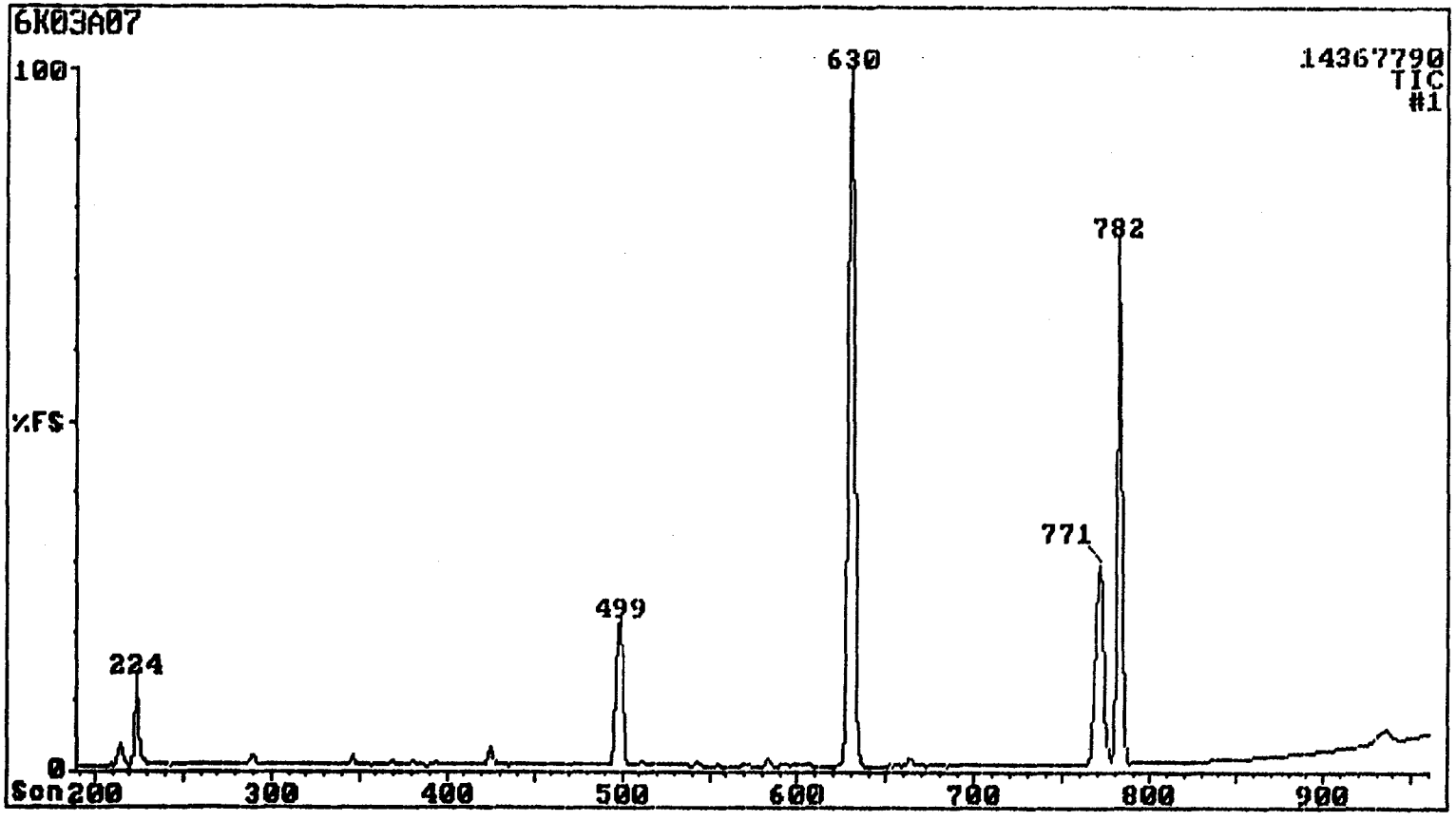
Interim Report LAB-BASE FIND 11/04/98 0821

Raw Datafile : 6K03A06 Quan DB : 6K03A06
Find DB : NNDMA Scan DB : NONE

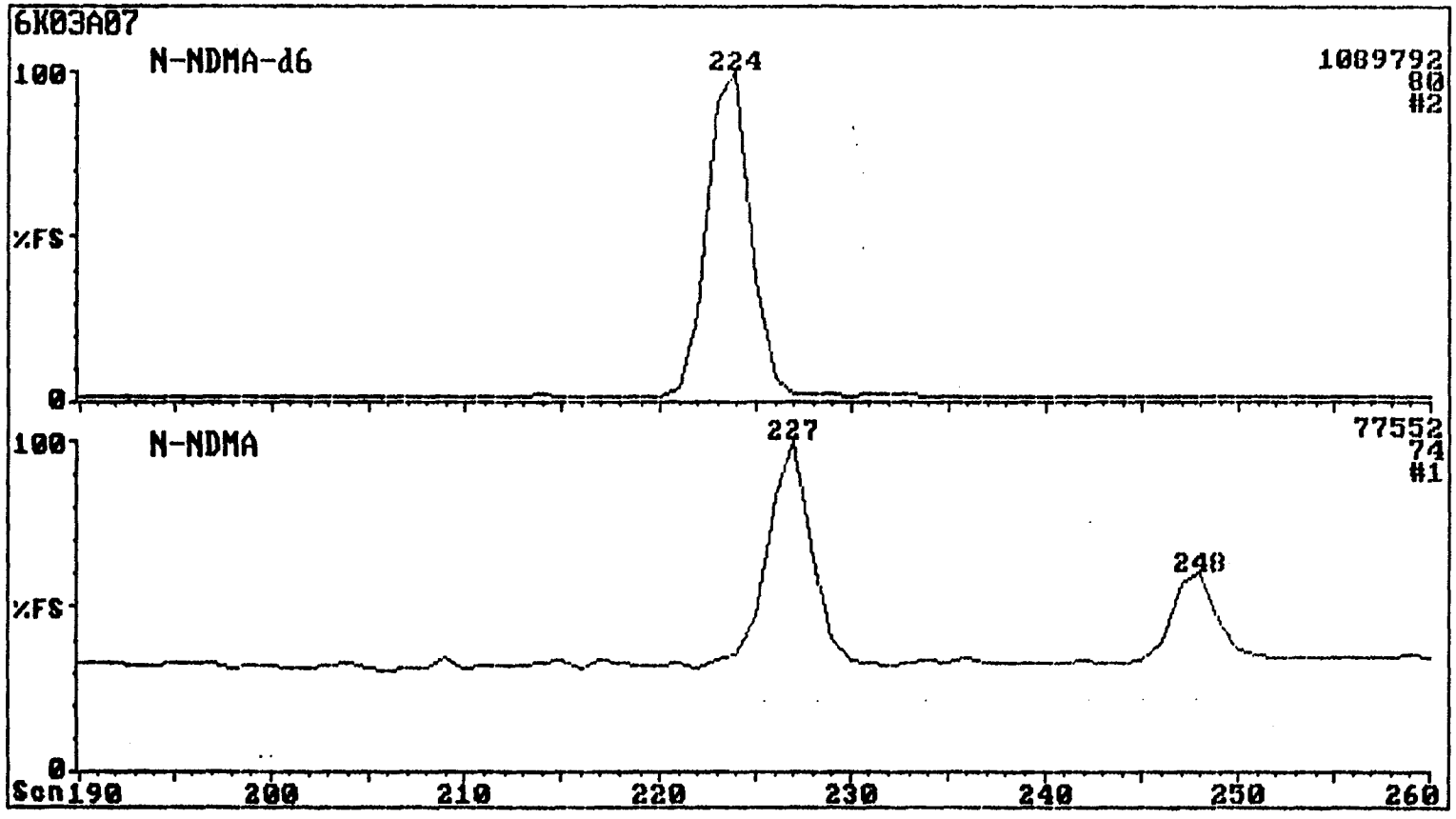
No.	Spectrum MAT	Spectrum FOR	Spectrum REV	Scan Diff	Peak Area	Flgs	Scan Found	Pred	QM	Compound Name
1	100	94	100	0	34720464	bv	782	782	190	2,2'-Difluorobiphenyl
2	100	91	99	0	2758994	b?	223	223	80	N-Nitrosodimethylamine-d6
3	98	68	88	0	53052	!!	227	227	74	N-Nitrosodimethylamine

Sample No.: NNDMA 0.05
Lab File ID: 6K03A07

Analyzed: 11/03/98 1640
Instrument ID: VG06



Sample No.: NNDMA 0.05 Analyzed: 11/03/98 1640
Lab File ID: 6K03A07 Instrument ID: VG06



Sample: NNDMA 0.05 NSTD0.05 Analyzed: 11/03/98 1640
Lab File: 6K03A07 Instrument ID: 06

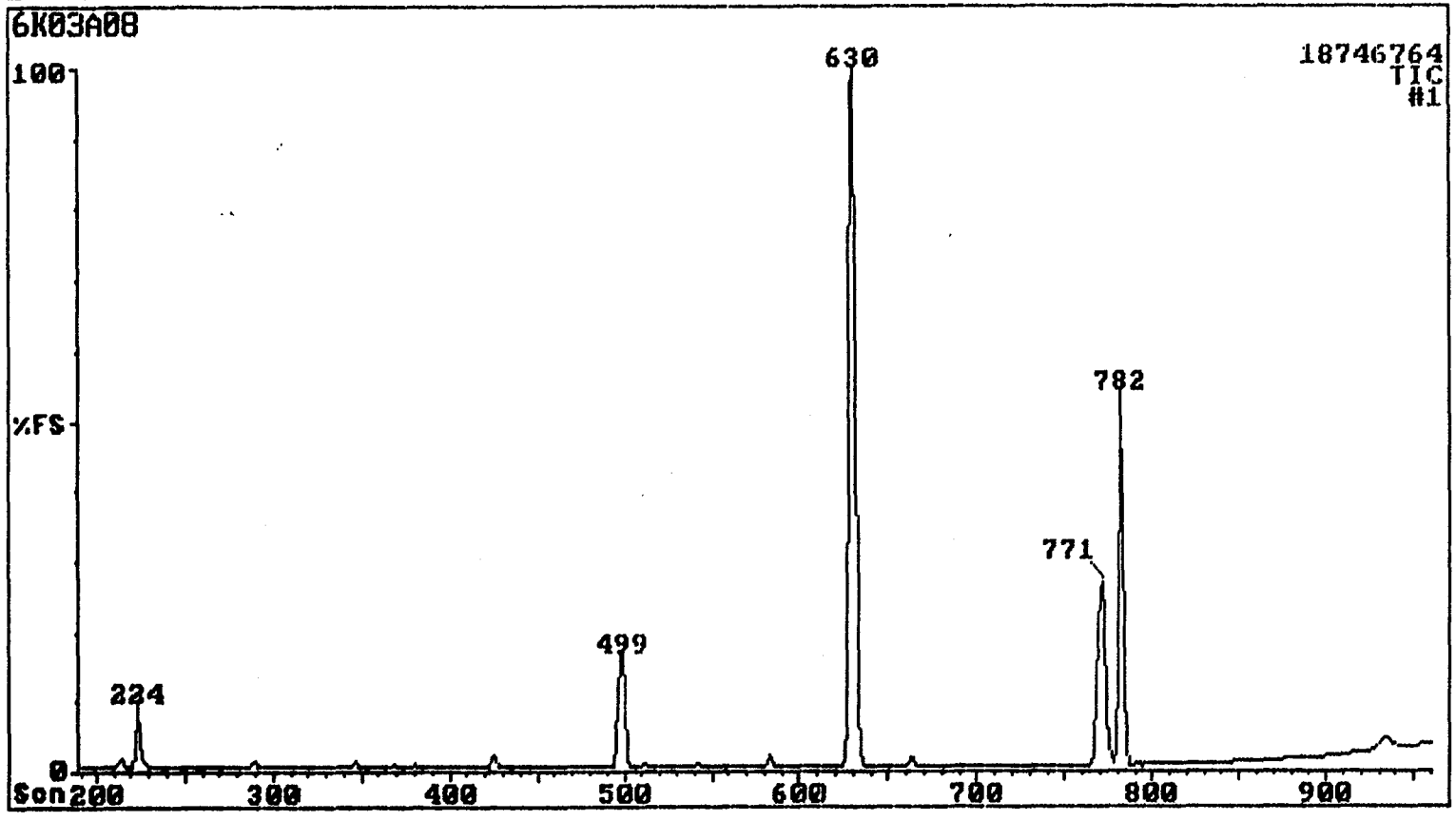
Interim Report LAB-BASE FIND 11/04/98 0822

Raw Datafile : 6K03A07 Quan DB : 6K03A07
Find DB : NNDMA Scan DB : NONE

No.	Spectrum MAT	FOR	REV	Scan Diff	Peak Area	Flgs	Scan Found	Pred	QM	Compound Name
1	100	94	100	0	30412232	bv	782	782	190	2,2'-Difluorobiphenyl
2	100	90	97	1	2775588	v?	224	223	80	N-Nitrosodimethylamine-d6
3	100	76	92	-1	129676	??	227	228	74	N-Nitrosodimethylamine
	72	65	85	6	924	!!	234			

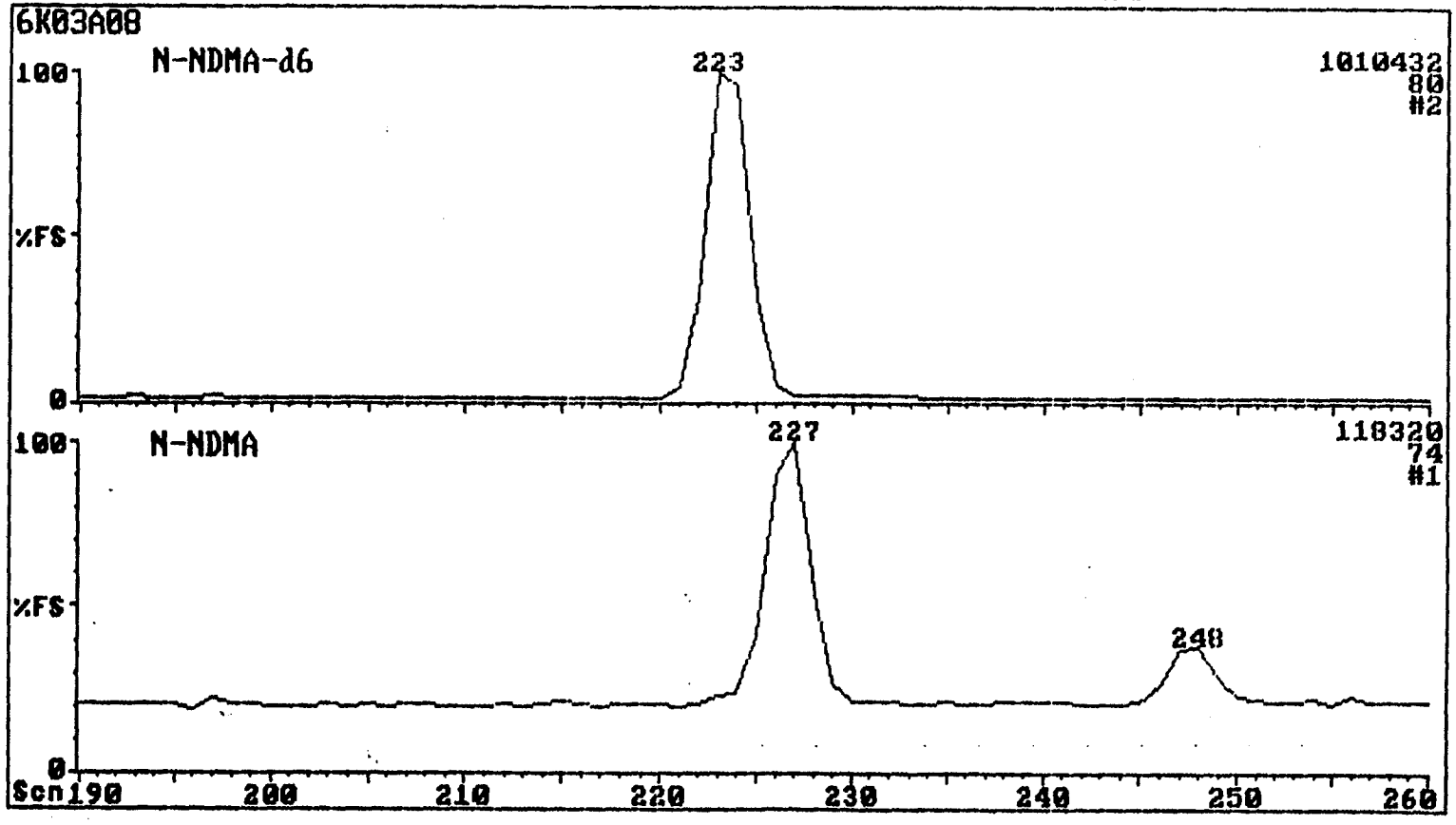
Sample No.: NNDMA 0.10
Lab File ID: 6K03A08

Analyzed: 11/03/98 1707
Instrument ID: VG06



Sample No.: NNDMA 0.10
Lab File ID: 6K03A08

Analyzed: 11/03/98 1707
Instrument ID: VG06



Sample: NNDMA 0.10 NSTD0.10 Analyzed: 11/03/98 1707
Lab File: 6K03A08 Instrument ID: 06

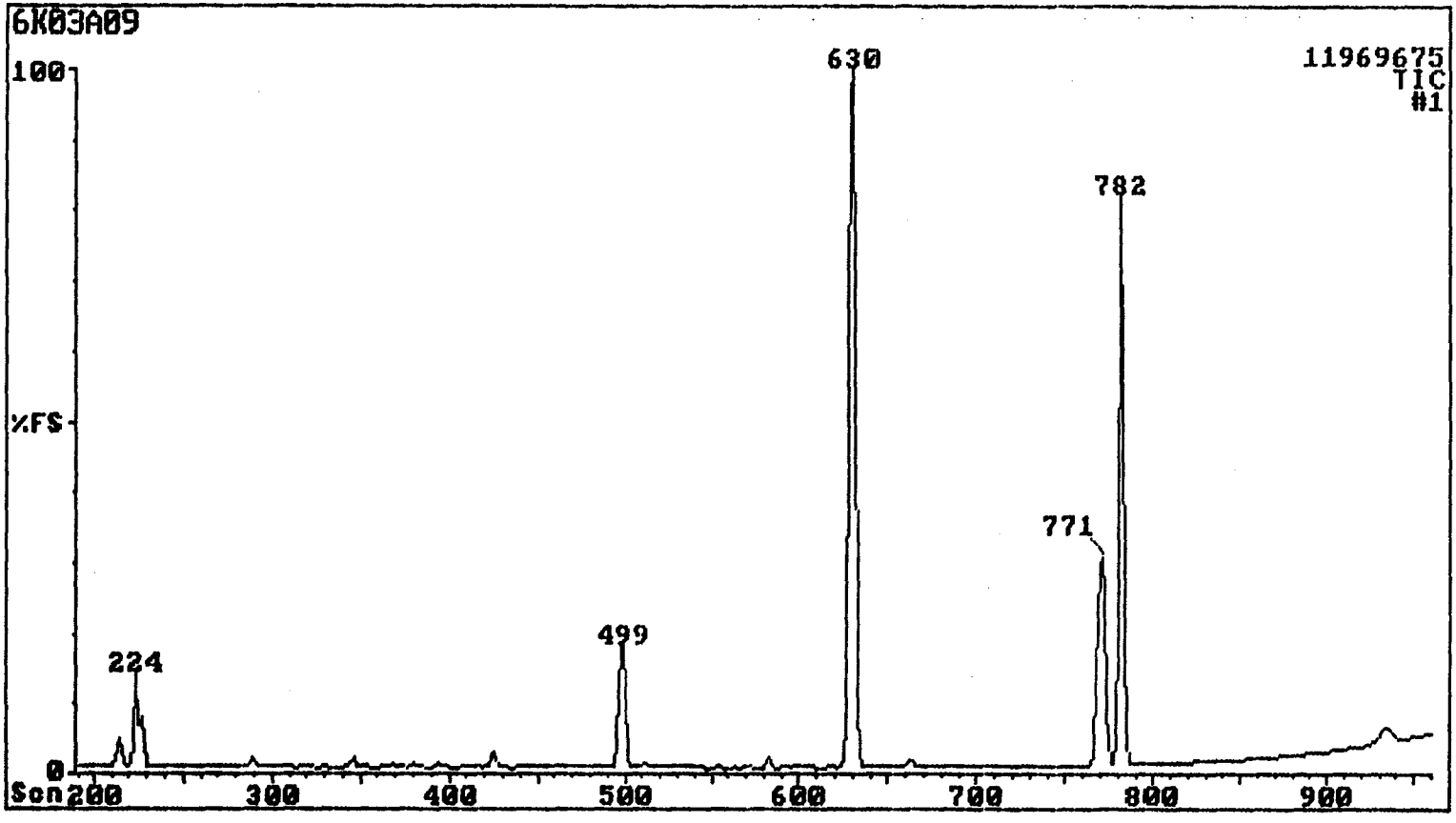
Interim Report LAB-BASE FIND 11/04/98 0823

Raw Datafile : 6K03A08 Quan DB : 6K03A08
Find DB : NNDMA Scan DB : NONE

No.	Spectrum MAT	FOR	REV	Scan Diff	Peak Area	Flgs	Scan Found	Pred	QM	Compound Name
1	100	94	100	0	28195457	bv	782	782	190	2,2'-Difluorobiphenyl
2	100	93	99	0	2608858	b?	223	223	80	N-Nitrosodimethylamine-d6
3	100	83	95	0	238636	??	227	227	74	N-Nitrosodimethylamine
	76	63	88	4	990	!!	231			

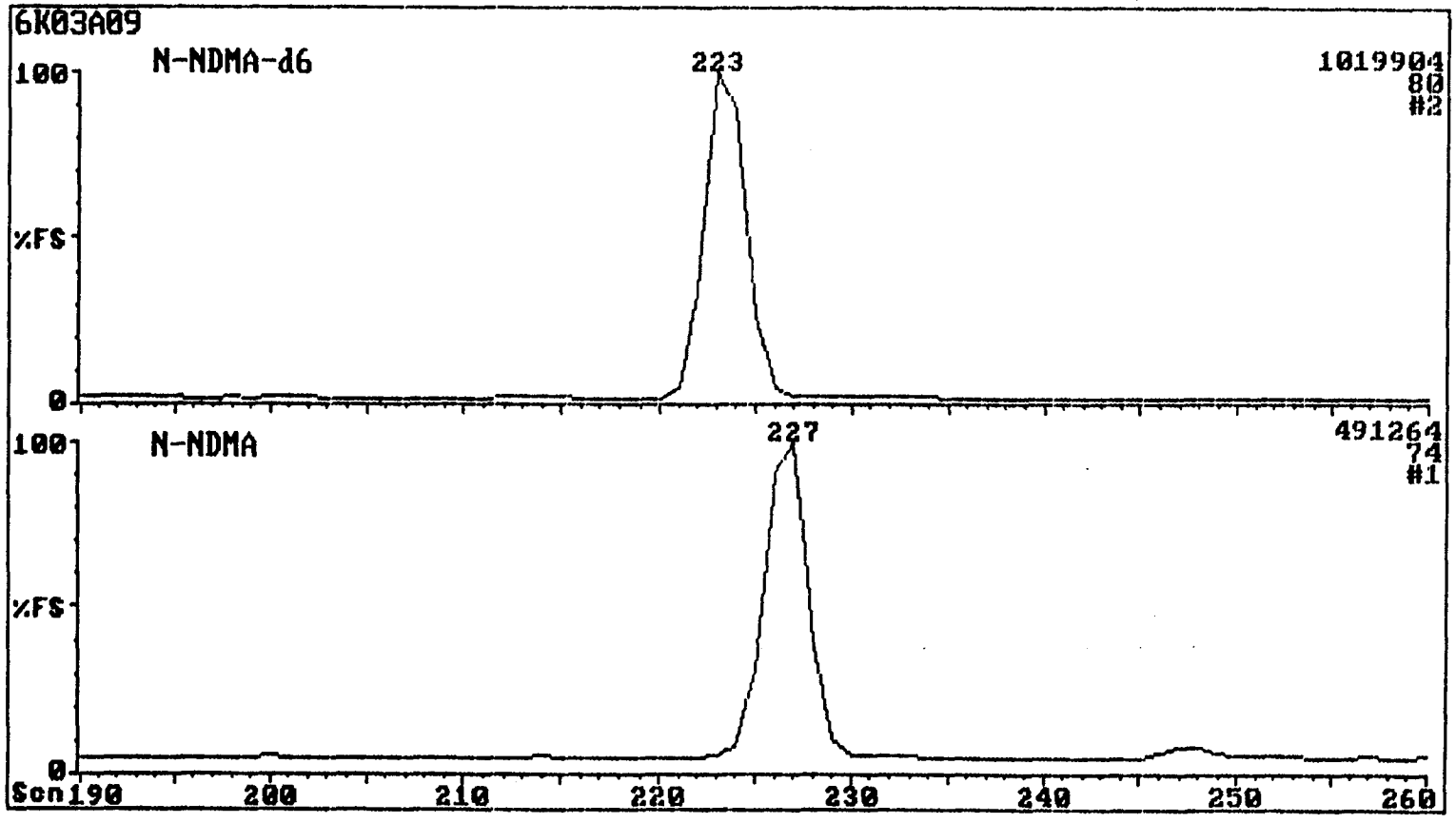
Sample No.: NNDMA 0.50
Lab File ID: 6K03A09

Analyzed: 11/03/98 1734
Instrument ID: VG06



Sample No.: NNDMA 0.50
Lab File ID: 6K03A09

Analyzed: 11/03/98 1734
Instrument ID: VG06



Sample: NNDMA 0.50 NSTD0.50 Analyzed: 11/03/98 1734
Lab File: 6K03A09 Instrument ID: 06

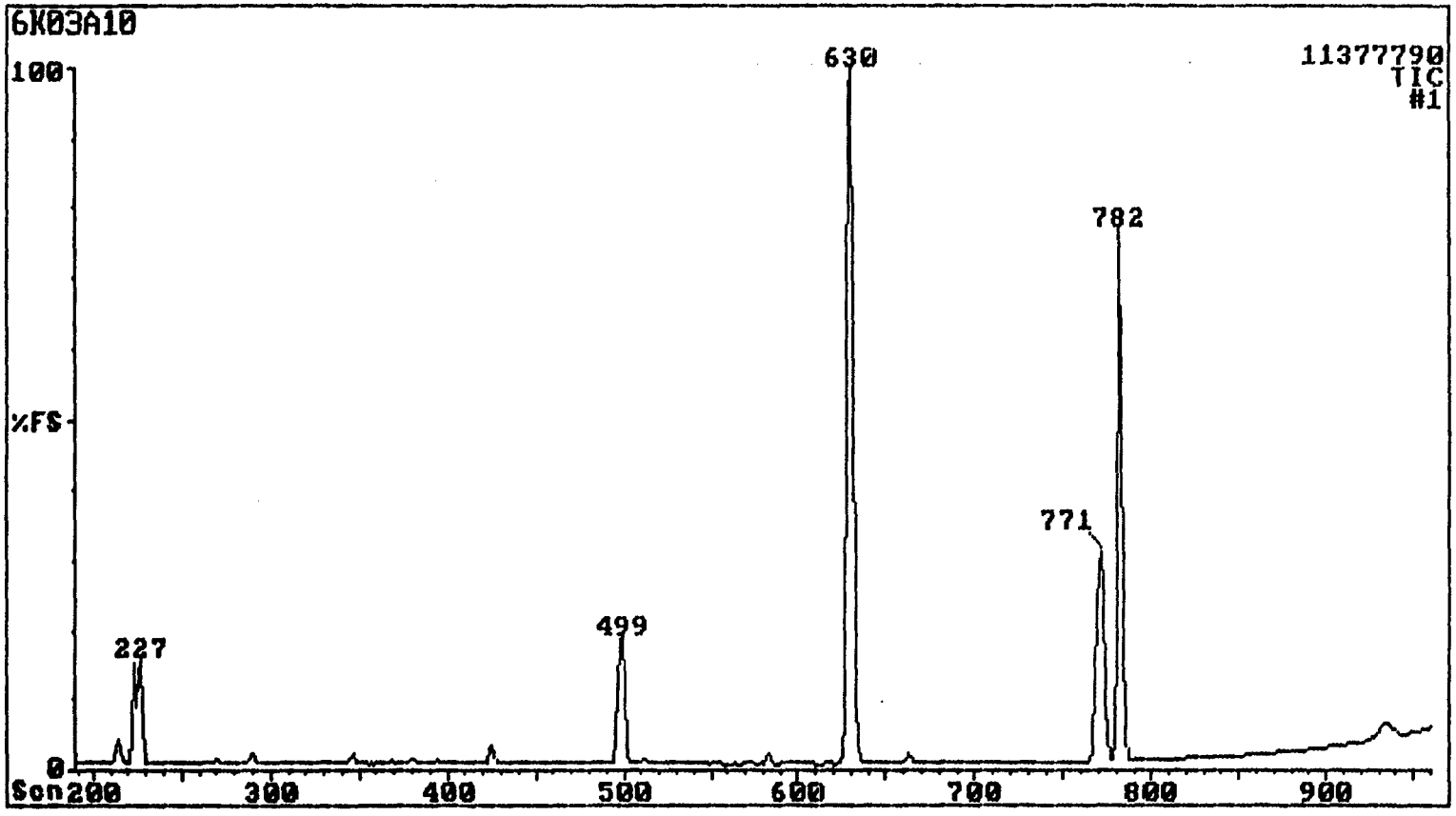
Interim Report LAB-BASE FIND 11/04/98 0824

Raw Datafile : 6K03A09 Quan DB : 6K03A09
Find DB : NNDMA Scan DB : NONE

No.	Spectrum MAT	Spectrum FOR	Spectrum REV	Scan Diff	Peak Area	Flgs	Scan Found	Pred	QM	Compound Name
1	100	94	100	0	27312212	bv	782	782	190	2,2'-Difluorobiphenyl
2	100	93	99	0	2530028	v?	223	223	80	N-Nitrosodimethylamine-d6
3	100	93	97	0	1204208	??	227	227	74	N-Nitrosodimethylamine

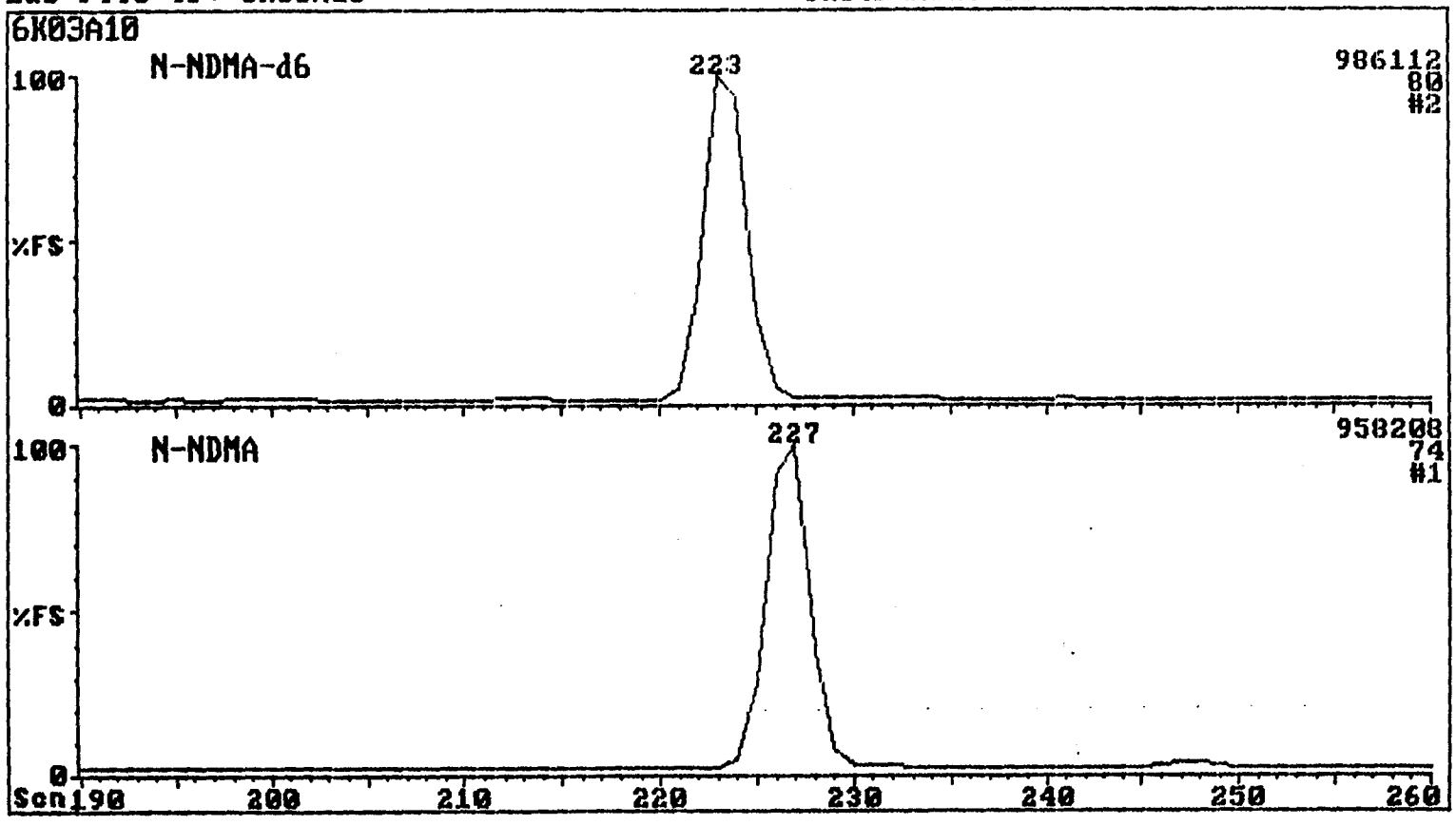
Sample No.: NNDMA 1.00
Lab File ID: 6K03A10

Analyzed: 11/03/98 1800
Instrument ID: VG06



000050

Sample No.: NNDMA 1.00 Analyzed: 11/03/98 1800
Lab File ID: 6K03A10 Instrument ID: VG06



Sample: NNDMA 1.00 NSTD1.00 Analyzed: 11/03/98 1800
Lab File: 6K03A10 Instrument ID: 06

Interim Report LAB-BASE FIND 11/04/98 0824

Raw Datafile : 6K03A10 Quan DB : 6K03A10
Find DB : NNDMA Scan DB : NONE

No.	Spectrum MAT	Spectrum FOR	Spectrum REV	Scan Diff	Peak Area	Flgs	Scan Found	Pred	QM	Compound Name
1	100	94	100	0	24387599	bb	782	782	190	2,2'-Difluorobiphenyl
2	100	93	99	0	2503996	v?	223	223	80	N-Nitrosodimethylamine-d6
3	100	95	97	0	2421116	??	227	227	74	N-Nitrosodimethylamine
	70	66	88	-6	492	!!	221			

ISOTOPE DILUTION
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
FORWARD SEARCH LIST

CLIENT SAMPLE NO.

LAB BLANK

Lab Name: PACIFIC ANALYTICAL, INC.
Matrix: WATER
Sample wt/vol: 1000 ml
Concentrated Extract Volume: 1000 ul
Injection Volume: 1 ul
GPC Cleanup: N/A
Fraction: Base/Neutral

Lab Sample ID: 8861
Lab File ID: 6K03A13
Date Sampled:
Date Extracted: 10/30/98
Date Analyzed: 11/03/98
Time Analyzed: 1920

Compound	Concentration (ug/L)	Flags	Labelled Cpd. Recovery
N-Nitrosodimethylamine	0.03	U	120 %

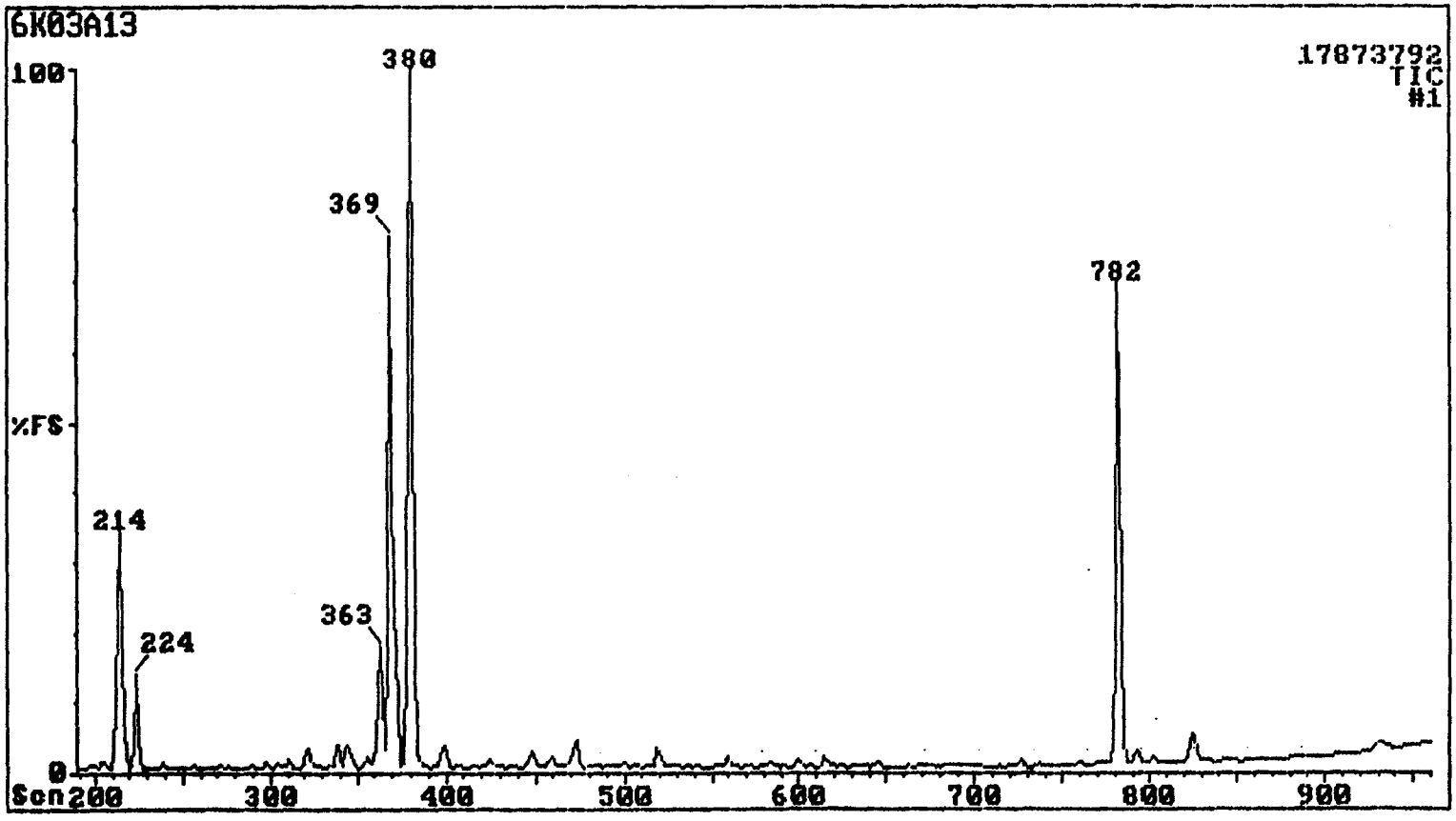
U = Undetected J = Estimated Concentration B = Found in Blank
D = Dilution Results E = Result Exceeds Calibration Curve

MDL = 0.005 ug/L

PQL = 0.03 ug/L

Sample No.: LAB BLANK
Lab File ID: 6K03A13

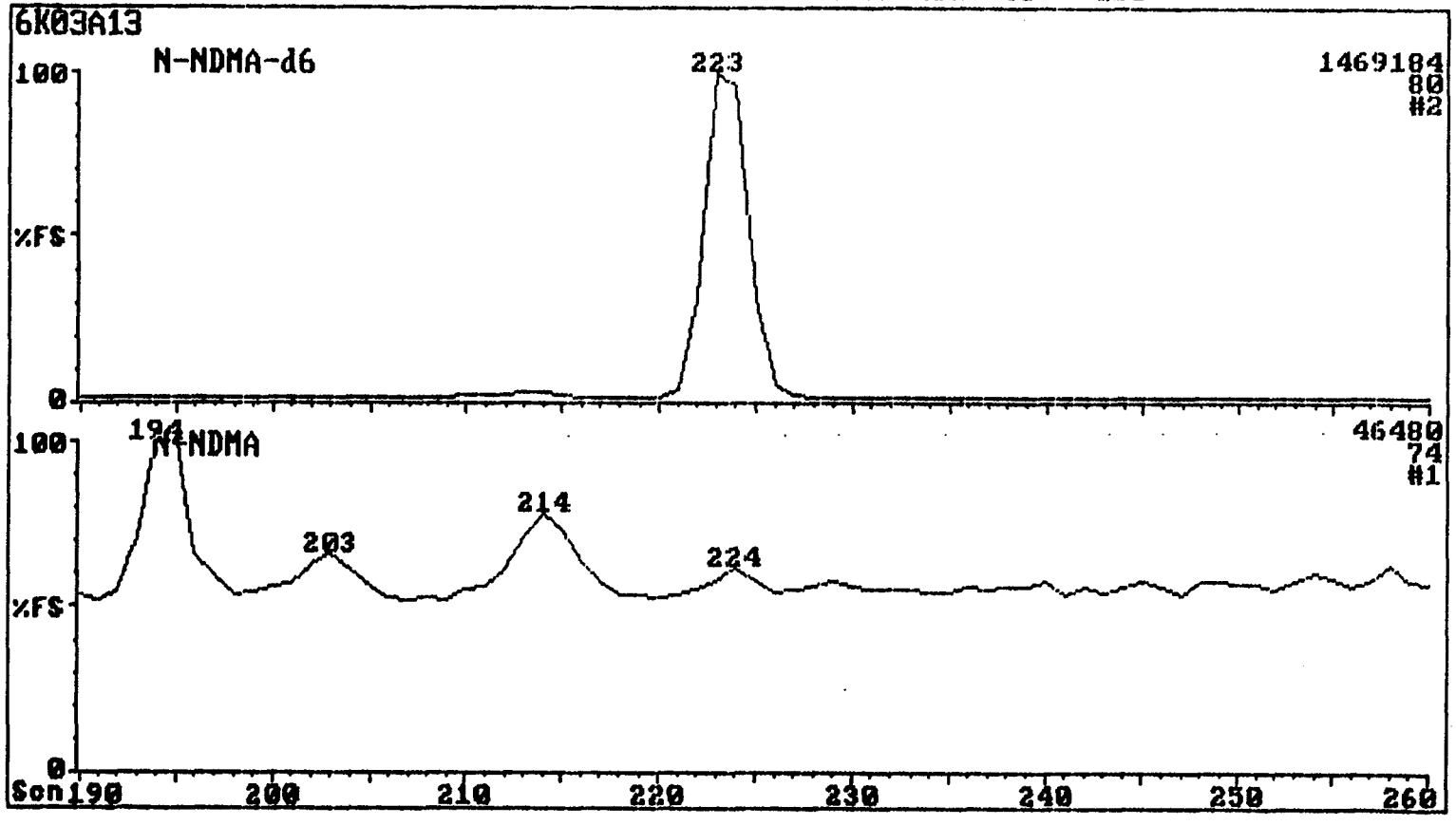
Analyzed: 11/03/98 1920
Instrument ID: VG06



000054

Sample No.: LAB BLANK
Lab File ID: 6K03A13

Analyzed: 11/03/98 1920
Instrument ID: VG06



000055

Sample: LAB BLANK 8861 Analyzed: 11/03/98 1920
Lab File: 6K03A13 Instrument ID: 06

Interim Report LAB-BASE FIND 11/04/98 0830

Raw Datafile : 6K03A13 Quan DB : 6K03A13
Find DB : NNDMA Scan DB : NONE

No.	Spectrum MAT	Spectrum FOR	Spectrum REV	Scan Diff	Peak Area	Flgs	Scan Found	Pred	QM	Compound Name
1	100	93	100	0	34723612	?v	782	782	190	2,2'-Difluorobiphenyl
2	100	94	100	0	3817552	b?	223	223	80	N-Nitrosodimethylamine-d6
3	83	62	82	2	3290	!!	229	227	74	N-Nitrosodimethylamine
	61	64	85	9	426	!!	236			

Quantitation Results

EPA Name: LAB BLANK Lab ID: 8861 Lab File: 6K03A1

Instr: 06 ICAL: 6K03 Acquisition Date: 11/03/98 Acquisition Time: 1920

Compound	Target Conc.	Sample Conc.	Label Rec.	Limits
N-Nitrosodimethylamine	0.00	0.00	119.9	25 - 175

ISOTOPE DILUTION
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
FORWARD SEARCH LIST

CLIENT SAMPLE NO.

00.10

Lab Name: PACIFIC ANALYTICAL, INC.
Matrix: WATER
Sample wt/vol: 1000 ml
Concentrated Extract Volume: 1000 ul
Injection Volume: 1 ul
GPC Cleanup: N/A
Fraction: Base/Neutral

Lab Sample ID: P&R C24
Lab File ID: 6K03A11
Date Sampled:
Date Extracted: 10/30/98
Date Analyzed: 11/03/98
Time Analyzed: 1827

Compound	Concentration (ug/L)	Flags	Labelled Cpd. Recovery
N-Nitrosodimethylamine	0.08		122 %

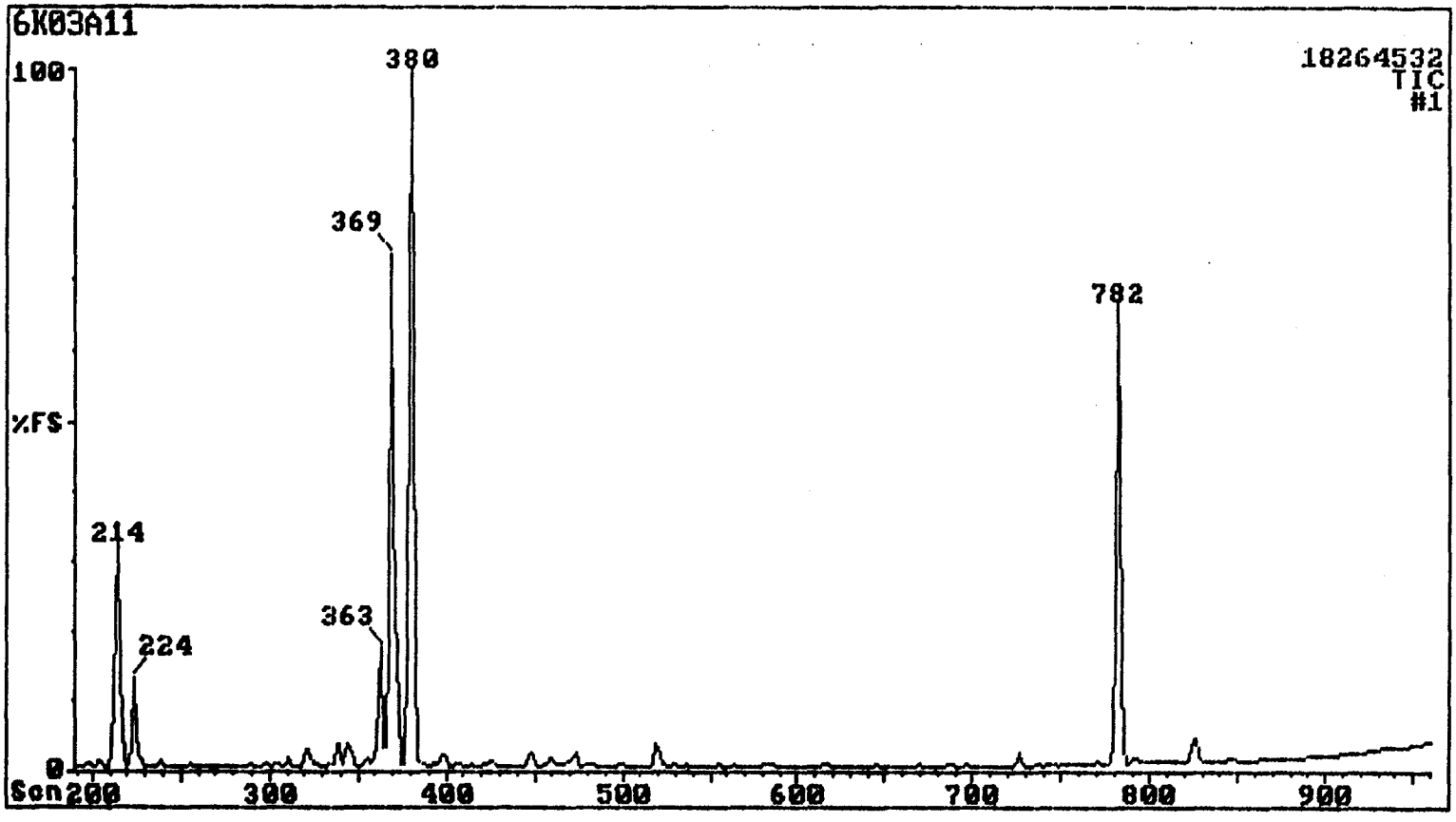
U = Undetected J = Estimated Concentration B = Found in Blank
D = Dilution Results E = Result Exceeds Calibration Curve

MDL = 0.005 ug/L

PQL = 0.03 ug/L

Sample No.: 00.10
Lab File ID: 6K03A11

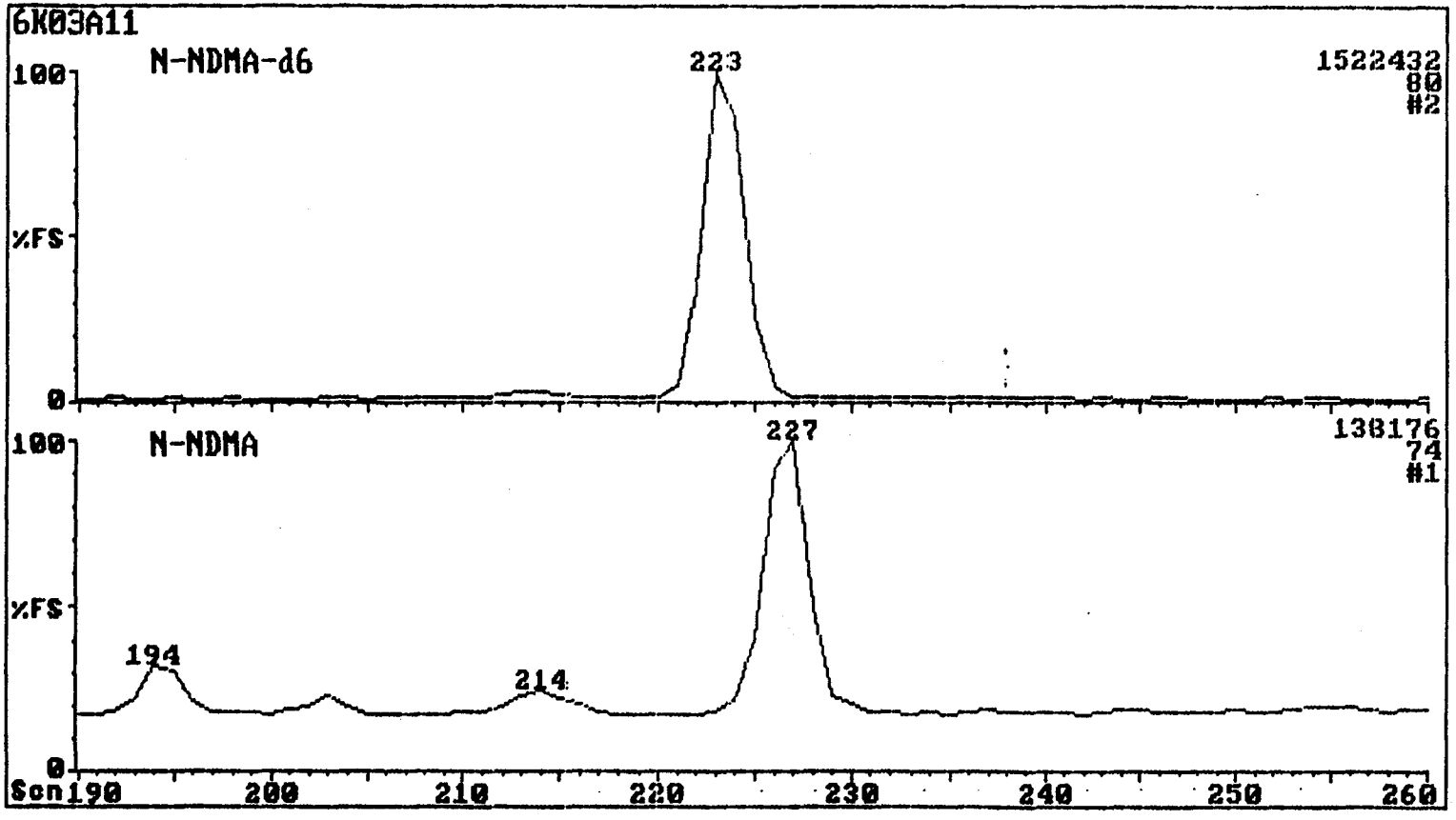
Analyzed: 11/03/98 1827
Instrument ID: VG06



000059

Sample No.: 00.10
Lab File ID: 6K03A11

Analyzed: 11/03/98 1827
Instrument ID: VG06



000060

Sample: 00.10 P&R C24 Analyzed: 11/03/98 1827
Lab File: 6K03A11 Instrument ID: 06

Interim Report LAB-BASE FIND 11/04/98 0829

Raw Datafile : 6K03A11 Quan DB : 6K03A11
Find DB : NNDMA Scan DB : NONE

No.	Spectrum MAT	FOR	REV	Scan Diff	Peak Area	Flgs	Scan Found	Pred	QM	Compound Name
1	100	93	100	0	33828079	?b	782	782	190	2,2'-Difluorobiphenyl
2	100	94	99	0	3780758	b?	223	223	80	N-Nitrosodimethylamine-d6
3	100	84	94	0	291140	??	227	227	74	N-Nitrosodimethylamine
	73	60	84	5	758	!!	232			

On-going Accuracy (P&R) Check

EPA Name: 00.10 Lab ID: P&R C24 Lab File: 6K03A1

Instr: 06 ICAL: 6K03 Acquisition Date: 11/03/98 Acquisition Time: 1827

Compound	Target Conc.	Rec.	Label Rec.	Limits
N-Nitrosodimethylamine	0.08	83.84	121.9	25 - 175

ISOTOPE DILUTION
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
FORWARD SEARCH LIST

CLIENT SAMPLE NO.

00.10

Lab Name: PACIFIC ANALYTICAL, INC.
Matrix: WATER
Sample wt/vol: 1000 ml
Concentrated Extract Volume: 1000 ul
Injection Volume: 1 ul
GPC Cleanup: N/A
Fraction: Base/Neutral

Lab Sample ID: P&R C24 DUP
Lab File ID: 6K03A12
Date Sampled:
Date Extracted: 10/30/98
Date Analyzed: 11/03/98
Time Analyzed: 1853

Compound	Concentration (ug/L)	Flags	Labelled Cpd. Recovery
N-Nitrosodimethylamine	0.09		124 %

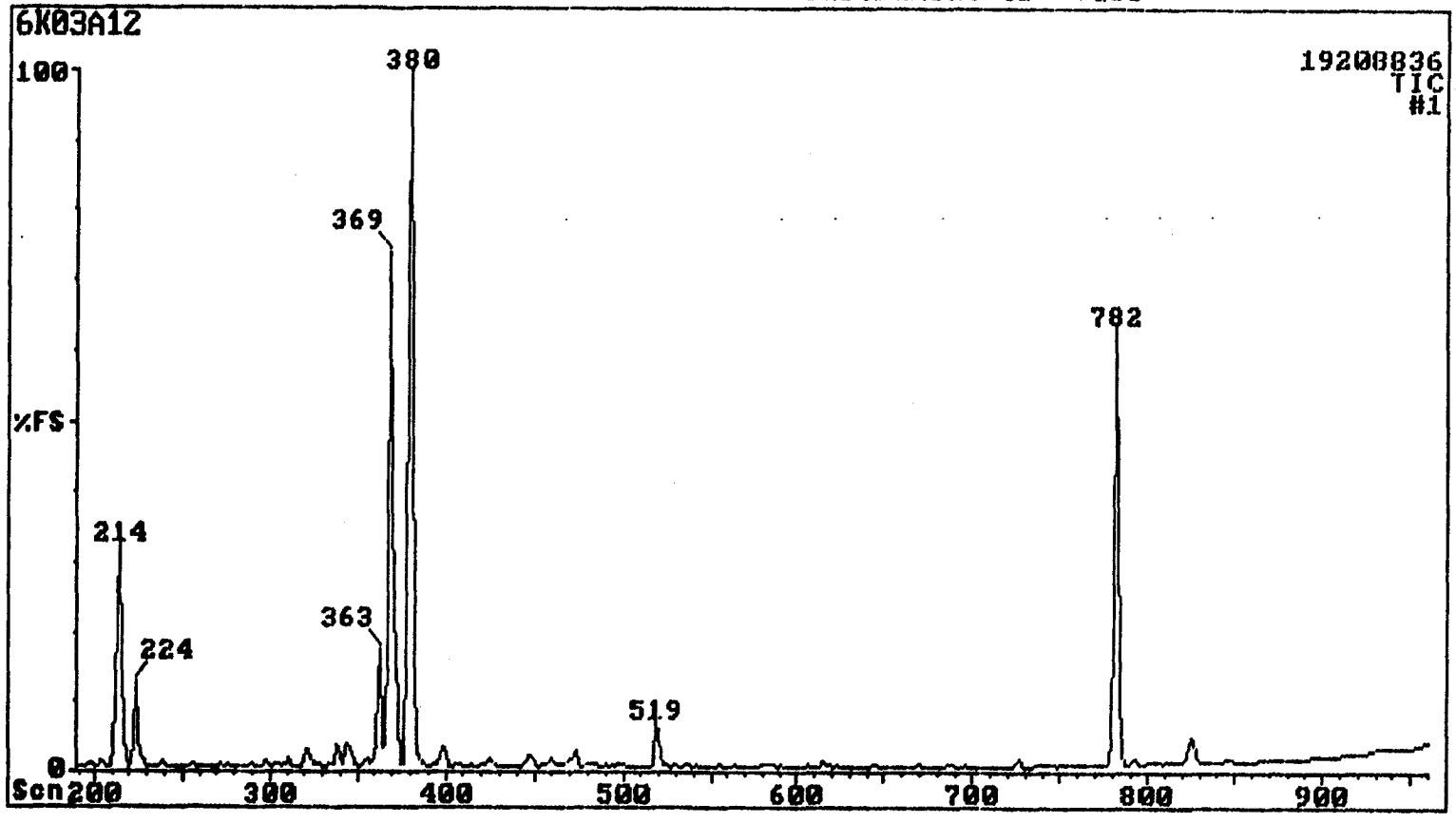
U = Undetected J = Estimated Concentration B = Found in Blank
D = Dilution Results E = Result Exceeds Calibration Curve

MDL = 0.005 ug/L

PQL = 0.03 ug/L

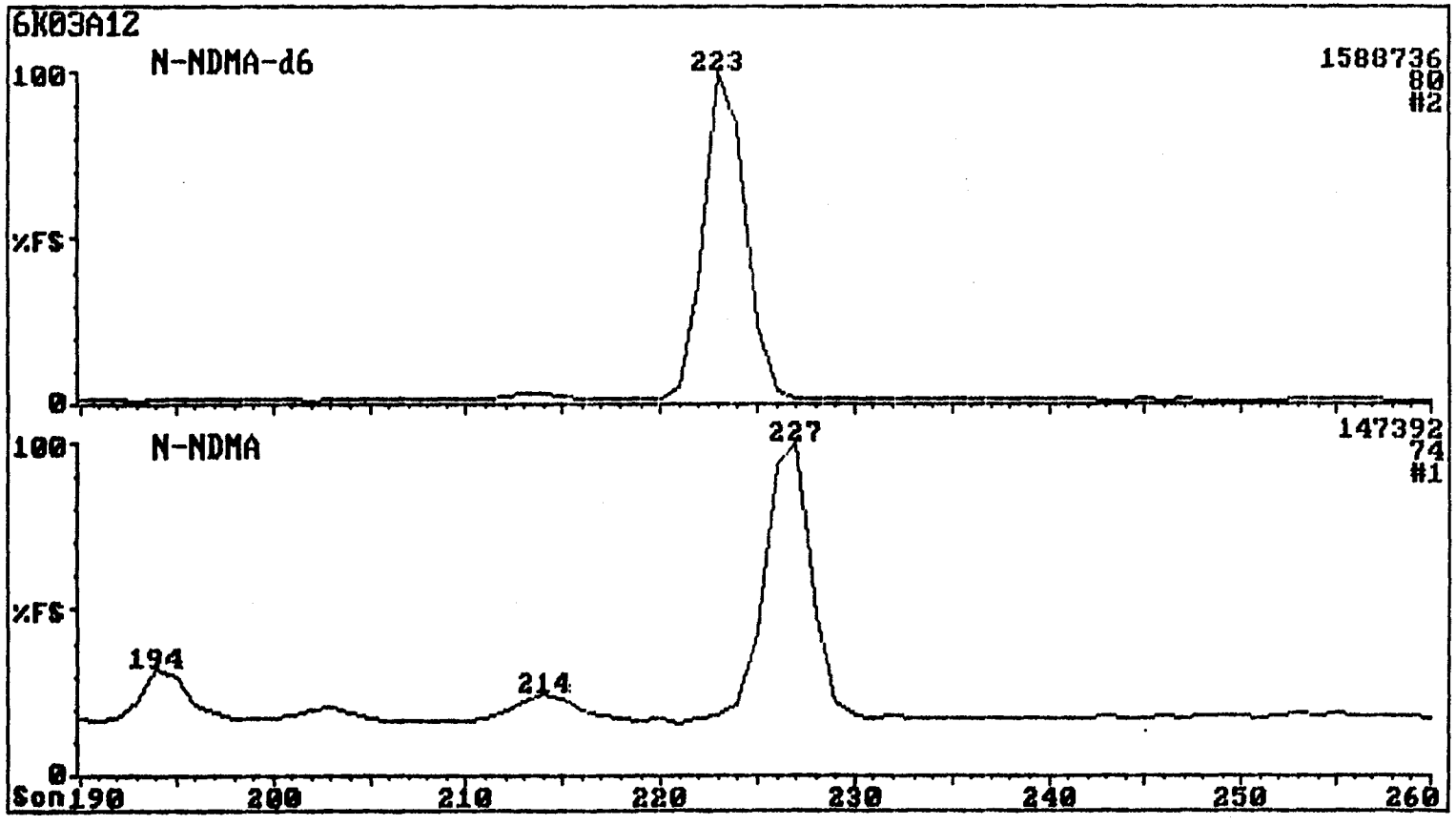
Sample No.: 00.10
Lab File ID: 6K03A12

Analyzed: 11/03/98 1853
Instrument ID: VG06



Sample No.: 00.10
Lab File ID: 6K03A12

Analyzed: 11/03/98 1853
Instrument ID: VG06



000065

Sample: 00.10 P&R C24 DUP Analyzed: 11/03/98 1853
Lab File: 6K03A12 Instrument ID: 06

Interim Report LAB-BASE FIND 11/04/98 0830

Raw Datafile : 6K03A12 Quan DB : 6K03A12
Find DB : NNDMA Scan DB : NONE

No.	Spectrum MAT	Spectrum FOR	Spectrum REV	Scan Diff	Peak Area	Flgs	Scan Found	Pred	QM	Compound Name
1	100	93	100	0	34484759	?v	782	782	190	2,2'-Difluorobiphenyl
2	100	94	99	0	3918476	b?	223	223	80	N-Nitrosodimethylamine-d6
3	100	84	94	0	322704	??	227	227	74	N-Nitrosodimethylamine

On-going Accuracy (P&R) Check

EPA Name: 00.10 Lab ID: P&R C24 DUP Lab File: 6K03A1

Instr: 06 ICAL: 6K03 Acquisition Date: 11/03/98 Acquisition Time: 1853

Compound	Target Conc.	Rec.	Label Rec.	Limits
N-Nitrosodimethylamine	0.09	89.82	123.9	25 - 175

PACIFIC ANALYTICAL, INC.

*** SAMPLE RECEIPT LOG ***

PA JOB NUMBER: N50
(Sample Tracking Information)

JOB ____ TASK ____-____
(Invoice Information Only)

CUSTOMER: MONTGOMERY WATSON

RECEIVED BY: JLT JLT

REVISION DATE: 11/02/96

REVISION TIME: 14:43

CHAIN OF CUSTODY RECEIVED: Y

SHIPPER: FED EX
SHIPPER CODE: 414782631035

LAB SAMPLE NUMBER OF FIRST SAMPLE TO BE LOGGED IN: N5001

LAB SAMPLE NUMBER	CUSTOMER SAMPLE ID	DATE SAMPLED	DATE OF RECEIPT	DESCRIPTION (soil, water, tissue, etc.)	CONDITION
N5001	MW-984075	10/26/98	10/28/98	WATER, 1 x 1 L BOTTLE, 2 WK TAT	OK
N5002	MW-984-006	10/27/98	10/29/98	WATER, 1 x 1 L BOTTLE	OK
N5003	MW-984-042	10/27/98	10/29/98	WATER, 1 x 1 L BOTTLE	OK
N5004	MW-984-015	10/28/98	10/30/98	WATER, 1 x 1 L BOTTLE	OK
N5005	MW-984-031	10/28/98	10/30/98	WATER, 1 x 1 L BOTTLE	OK
N5006	MW-984-039	10/28/98	10/30/98	WATER, 1 x 1 L BOTTLE	OK
		/ /	/ /		
		/ /	/ /		
		/ /	/ /		
		/ /	/ /		
		/ /	/ /		
		/ /	/ /		
		/ /	/ /		
		/ /	/ /		
		/ /	/ /		
		/ /	/ /		
		/ /	/ /		
		/ /	/ /		
		/ /	/ /		
		/ /	/ /		

COMMENTS: 3 MEDIUM COOLERS

SAMPLE LOG-IN SHEET -TEMPORARY

N50

LAB NAME: PACIFIC ANALYTICAL, INC.

Received By (Print Name): José L. Toledo Log-in Date: 10/28/98

Received By (Signature): José L. Toledo

Client Montgomery Watson Labs

# of coolers: 1 medium Cooler

REMARKS:

1. Custody Seal(s) Present/~~Absent~~
   Intact/Broken
2. Custody Seal Nos.:
3. Chain of Custody Records: Present/Absent
4. Traffic Reports or Packing List Present/Absent
5. Airbill Airbill/~~Sticker~~
   Present/Absent
6. Airbill No.: 4147 8263 1035
   4147 8263 1079
7. Sample Tags ~~Present/Absent~~
   Sample Tag Numbers Listed/~~Not Listed~~ on Chain of Custody
8. Sample Condition ~~Intact~~/Broken/Leaking
   Cold
9. Does informatin on Custody Records, Traffic Reports and sample tags agree? Yes/No
10. Date Received at Lab: 10/28/98, 10/28/98
11. Time Received at Lab: 10:30 Am, 1615

LAB ID	SAMPLE NO		REMARKS #CONTAINERS; CONDITION
N5001	MW-984 075	WATER	1x1 L BOTTLE, TAG #: 01490
N502	MW-984 008	WATER	1x1 L BOTTLE, TAG #: 01509
N5003	MW-984 042	↓	↓, TAG #: 01501
N5004	MW-984-015	WATER	1x1 L BOTTLE, TAG #: 01569
N5005	MW-984-031	↓	↓, TAG #: 01540
N5006	MW-984-039	↓	↓, TAG #: 01553

000069

Chemist JLT

SEMI-VOA/BNA

JOB # N50

Extraction Date 10-30-98

1625M-NDMA
(analysis)

Client Montgomery-W

Extraction Method 1625M (N-NDMA) Extraction Solvent MeCl2 Lot #

Matrix Water Fraction(s) Extracted

Extracts concentrated to 10 mL using K-D apparatus. Extracts then transferred to nitrogen evaporator and concentrated to final volumes listed below. If clean-up is required, reference clean-up method for procedure. Base/neutral and acid fractions combined for Blank and P and R samples only.

SURROGATE: N-NDMA CABEZ Date Made 2-2-98 Volume 50 µL Conc. 20 µg/mL Init. JLT

MATRIX SPIKE: N-NDMA WKS Std Date Made 8-13-98 Volume 100 µL Conc. 1.0 µg/mL Init. JLT

INTERNAL STANDARD:

BN NNDMA IS Vol. 10 µL Date Made 10-12-98 Date Spiked 11-3-98 Conc. 100 µg/mL Init. M.G.

ACID Vol. Date Made Date Spiked Conc. Init.

Sample #	Amount Extracted	% Moisture/ Solids	pH at 1st Extraction	Final Vol. 1st Extract	pH at 2nd Extraction	Final Vol. 2nd Extract	Clean-Up	Comments
8861	1000 mL	N/A	>12	1.0 mL	NA	NA	NONE	
8862	↓	↓	↓	↓	↓	↓	↓	
P+RC24	↓	↓	↓	↓	↓	↓	↓	
P+RC24dup	↓	↓	↓	↓	↓	↓	↓	
N5001	↓	↓	↓	↓	↓	↓	↓	
N5002	↓	↓	↓	↓	↓	↓	↓	
N5003	↓	↓	↓	↓	↓	↓	↓	
N5004	↓	↓	↓	↓	↓	↓	↓	
N5005	↓	↓	↓	↓	↓	↓	↓	
N5006	↓	↓	↓	↓	↓	↓	↓	

Pacific Analytical, Inc.

Pacific Analytical
GC/MS SEMI-VOLATILES
RUN LOG

Instrument: VGØ6 Page: 320

Cal File: 6K03 Date: 11/03/98

Notes: JOBS N50, MONTGOMERY WATSON / NNDMA MWL PROJ #'s: 48614, 48665, 48735.
N52, WEST BASIN MWD / NNDMA
TUNE PAR: SIR = 5.0; SEC = 100; SF1 = 14; SF3 = 210; QL = 6.0; QH = 10.9; DM = 750
SEE = 70; SF2 = 21.0; SF4 = 21; QIE = 1.5; QIR = 1.0 STD'S PREP. 5/19/98, M.G.
GC PAR: 40° hold 2.5 min, 15°/min to 280°, hold 0.5 min ; 2 µL INJ ; HP = 10 psi

Taped	Sample ID	File Name	OK	Description	OP
	M_2Cl_2	6K03A01	✓	WARM UP	M.G.
		6K03A02	✓		
		03	✓		
		04	✓		
		05	✓		
	NSTD 0.02	06	✓	NNDMA STD. 0.02 µg/mL	
	NSTD0.05	07	✓	0.05	
	NSTD0.10	08	✓	0.10	
	NSTD0.50	09	✓	0.50	
	NSTD1.00	10	✓	1.00	
	P&R C24	11	✓	00.10	
	P&RC24dup	12	✓	00.10	
	8861	13	✓	LAB BLANK	
	8862	14	✓	LAB BLANK	
	N5001	15	✓	981026103 (MW-984-075)	
	N5002	16	✓	981027217 (MW-984-008)	
	N5003	17	✓	981027216 (MW-984-042)	
	N5004	18	✓	981028245 (MW-984-015)	
	N5005	19	✓	981028243 (MW-984-031)	
	N5006	20	✓	981028244 (MW-984-039)	
	1/10 N5201	21	✓	1/10 PLANT INFLUENT	
	N5201	22	✓	PLANT INFLUENT	

000071

06/21/93 Reviewed by: _____ on: _____

JOB # N50

CLIENT McKinstry - Watsca

SAMPLE TRACKING FORM

LOCATION #7

Pacific Analytical

SAMPLE NUMBER	IN By	IN Date	OUT By	OUT Date	IN By	IN Date	OUT By	OUT Date	IN By	IN Date	OUT By	OUT Date	IN By	IN Date	OUT By	OUT Date	IN By	IN Date
N5001	JT	10/28/88	JT	10/30/88	DMC	10/31/88		/ /		/ /		/ /		/ /		/ /		/ /
N5002	JT	10/29/88		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /
N5003		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /
N5004	JT	10/30/88		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /
N5005		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /
N5006		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /
	JT	/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /
		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /
		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /
		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /
		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /
		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /
		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /
		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /
		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /
		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /
		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /
		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /
		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /
		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /
		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /

LINE OUT REMAINING ENTRIES IF CONTAINER WILL NOT BE RETURNED.

JOB N50 000072

JOB # N50

CLIENT/ Montgomery Watson

SAMPLE TRACKING FORM

EXTRACTS

LOCATION #2

Pacific Analytical

EXTRACTS

SAMPLE NUMBER	IN By	IN Date	OUT By	OUT Date	IN By	IN Date	OUT By	OUT Date	IN By	IN Date	OUT By	OUT Date	IN By	IN Date	OUT By	OUT Date	IN By	IN Date
8861	MA	11/3/98	MA	11/3/98	MA	11/4/98		/ /		/ /		/ /		/ /		/ /		/ /
8862		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /
P&R C24		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /
P&R C24dup		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /
N5001		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /
N5002		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /
N5003		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /
N5004		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /
N5005		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /
N5006		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /
		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /
		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /
		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /
		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /
		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /
		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /
		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /
		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /
		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /
		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /
		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /
		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /

LINE OUT REMAINING ENTRIES IF CONTAINER WILL NOT BE RETURNED.

JOB N50

000073

[redacted]

5.24.94 US — Chlorinated phenol Surrogate 2.25 ppm

(5.24.94) 2 fluorophenol @ 1000 ppm — 225 µl
(5.24.94) 246 tribromophenol @ 1000 ppm — 225 µl
up to 100 mL in Acetone lot 33349

5.24.94 US — Chlorinated phenol Matrix 2.25 ppm

~~2 fluorophenol~~ US 5.24.94
(5.24.94) Pentachlorophenol — 1000 ppm — 225 µl
phenol
246 Trichlorophenol
245 Trichlorophenol
4 chloro 3 methyl phenol
2 chloro phenol
2,4 Dichlorophenol
2,6 Dichlorophenol
Ortho phenyl phenol (2)
up to 100 mL in Acetone lot 3

24 May 94 cs

Trifluralin — Reid de Haen lot # 7230
0.010 g / 10 mL Hexane — 1000 ug/mL — 24 May 94 cs

Prometon — Reid de Haen lot # 7251
0.010 g / 10 mL Hexane — 1000 ug/mL — 24 May 94 cs

Metolachlor — Chem Serv lot # 31-98A
0.010 g / 10 mL Hexane — 1000 ug/mL — 24 May 94 cs

3349

US 5.25.94 — NDMA$_{d_6}$ @ 1000 ppm

MSD Lot 3414P NDMA$_{d_6}$ — 0.1 g from sealed vial rinsed into 100 mL in $MeCl_2$ lot 33316

US 5.25.94 — NDMA$_{d_6}$ @ 1000 ppm

(5.25.94) NDMA$_{d_6}$ @ 1000 ppm — 200 µl
up to 10 mL in $MeCl_2$ lot 33316

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT

0.1 g — MD-2937
MSD
N-NITROSODIMETHYL-d_6-AMINE
(99.8 atom % D)
Lot No. 3414-P
MSD ISOTOPES

WARNING — CAS 62-75-9
HIGHLY TOXIC — LD_{50} = 28 mg/kg
CANCER SUSPECT
COMBUSTIBLE
Reacts with oxidizing/reducing agents
MSD ISOTOPES MSDS No. 9220

000074

5/27/97

Parent	Parent Conc	aliquot	F. vol.	F. Conc
Arochlor	1000 µg/ml	100 µl	10 ml	10 µg/ml

08 Sept 97 PCB Surrogate Spike @ 0.2 ub/ml CSO
2.5 mL 8080 Surr (4/14/97) into 25 mL Acetone

08 Sept 97 Benomyl lot #81E30 CSO
0.010 gram/10 mL Methanol.

(1625 I.S.)

SEPT. 10, 1997 2,2'-Difluorobiphenyl 10,000 ppm

M.G. 0.2501 g 2,2'-Difluorobiphenyl (PFALTZ + BAUER LOT # 042605)
DISOLVED IN BENZENE (E.M.Sc. LOT # 35114)
THEN BROUGHT TO 25.0 mL IN A VOLUMETRIC FLASK WITH 2,2,4-Trimethylpentane (E M Sc LOT 32365) (~50:50)

FINAL VOL = 25.0 ml FINAL CONC = 10000 mg/mL

1/21/98 1625 ICAL STD'S

M.G.

Conc (µg/mL)	(µL) LABEL	(µL) UNLABEL	(µL) I.S.	(µL) DFTPP
200	250	250	5	1
100	250	125	5	1
50	250	62.5	5	1
20	250	25.0	5	1
10	250	12.5	5	1

DILUTED TO A FINAL VOL. OF 0.5 mL WITH $MeCl_2$ (E.M. Sci LOT 37254)

Where:

LABEL = 200 µg/mL SCC LABELS, 1/19/98, M.G.

UNLABEL = 400 µg/mL UNLABELED, 1/20/98, M.G.

I.S. = 10000 µg/mL 1625 I.S., 9/10/97, M.G.

DFTPP = SUPELCO LOT LA18741, 25000 µg/mL

2/2/98 N-Nitrosodimethylamine-d6 20 µg/mL

M.G.

1.000 mL OF 1000 µg/mL N-Nitrosodimethylamine-d6 (G.S. 5/25/94, 1000 µg/mL) DILUTED TO 50.0 mL IN A VOLUMETRIC FLASK w/ ACETONE (EM Sci LOT # 37197)

FINAL CONC = 20 µg/mL F.V. = 50.0 mL

2/2/98 N-Nitrosodimethylamine STOCK 1000 µg/mL

M.G.

0.100 g N-Nitrosodimethylamine (ALDRICH LOT # 06582TT) DILUTED TO 100.0 mL IN A VOLUMETRIC FLASK w/ACETONE (EM Sci LOT 37197)

FINAL CONC = 1000 µg/mL FV = 100.0 mL

05/05/98 1625 ICAL STD's

mg.

CONC (µg/L)	(µL) LABEL	(µL) UNLABEL	(µL) I.S.	(µL) DETPP
200	250	250	5	1
100	250	125	5	1
50	250	62.5	5	1
20	250	25.0	5	1
10	250	12.5	5	1

Where LABEL = 200 µg/mL SCC LABELS, 4/6/98, M.G.
UNLABEL = 400 µg/mL UNLABELED, 4/6/98, M.G.
I.S. = 10000 µg/mL 1625 I.S. 9/10/97, M.G.
DETPP = SUPELCO LOT LA18741, 25000 µg/mL

DILUTED TO A FINAL VOLUME OF 0.5 mL WITH $MeCl_2$ (EM SCI. LOT 38071)

05/12/98 NNDMA STD's goes with set on 2-9-98

mg.

CONC (µg/mL)	(µL) NATIVE	(µL) LABEL	(µL) I.S.
1.00	1	50	10
10.00	5	50	10
0.02	*20	50	10

where NATIVE = NNDMA 1000 µg/mL, 2/2/98, M.G.
* NATIVE = NNDMA WORKING STD 1.0 µg/mL, 2/9/98, M.G.
LABEL = NNDMA-d6 20 µg/mL, 2/2/98, M.G.
I.S. = MILK INT. STD. 100 µg/mL, 1/8/98, M.G.

5/18/98 NNDMA INT. STD. 100 µg/mL

mg.

0.100 mL 1625 I.S. (10000 µg/mL, 9/10/97, M.G)

DILUTED IN A VOLUMETRIC FLASK WITH BENZENE (BAKER LOT C51712) TO 10.0 mL

FV = 10.0 mL FINAL CONC = 100 µg/mL

000077

5/18/98 NNDMA WORKING STD 1.0 µg/mL
M.G. ~~0.100 mL of~~

0.010 mL OF N-Nitrosodimethylamine STOCK
(1000 µg/mL, 2/2/98, M.G.)
DILUTED TO 10.0 mL IN A VOLUMETRIC FLASK
WITH $MeCl_2$ (EM Sci LOT 38090)
FV = 10.0 mL FINAL CONC = 1.0 µg/mL

~~5/18/98~~ NNDMA ICAL STD'S
M.G.

	(µg/mL) CONC	(µL) NATIVE	(µL) LABEL	(µL) I.S.
5/19/98	0.01	10	50	10
	0.02	20	50	10
	0.05	50	50	10
	0.10	100	50	10
	0.50	500	50	10
	1.00	1000	50	10

Where: NATIVE = NNDMA WORKING STD (1.0 µg/mL 5/18/98, M.G.)
LABEL = N-NDMA-d6 (20 µg/mL, 2/2/98, M.G.)
I.S. = NNDMA INT STD (100 µg/mL, 5/18/98, M.G.)
DILUTED (OR BLOWN DOWN) TO 1.0 mL W/ $MeCl_2$
(EM Sci LOT: 38090)

8/6/98 8080 Surrogate (0.2 µg/mL)
5 mL 8080 Surrogate (2 µg/mL, 1/3/97)
in 50 mL of acetone. JLT
Aceton Lot #: 37197

8/13/98
N-NDMA LABEL (20 µg/mL)
1.0 mL N-NDMA LABEL (1000ppm, 5-25-94) in
50 mL of acetone (Lot #: 37197) JLT

8/13/98 N-NDMA Working Std (1.0 µg/mL)
10 µL of N-NDMA UNLABEL (1000 µg/mL, 2-2-98)
in 10 mL of acetone (Lot #: 37197) JLT

8/13/98 1625 I.S. (1000 µg/mL)
1 mL 1625 I.S. (10,000 µg/mL, 9-10-97) in 10 mL
$MeCl_2$ (Lot #: ~~38091~~ 38191) JLT

08 Sept 98 Stearic Acid Mallinckrodt Lot # 2216 KPPC CAP
1000 ug/mL 0.010g /10mL benzene.

1656 indiv stock solutions

~~10/6/98 Acephate (Riedel-de Haën) lot # 8078 95% pure 0.0 in 10 ml benzene (EM lot~~

10/6/98

name	supplier	lot #	purity	weight (g)	Final Vol (ml)	Final Conc (µg/ml)
1) Acephat	Riedel-de-Haën	8078	95%	0.0500	10 **	5000
2) Perthane	Chem Service	23-31C	99.4%	0.0503	10 *	5000
3) 1,2-dibromo-3-chloro propane	Pfaltz & Bauer	DC9210	97%	0.0110	10 *	1000

** brought up to vol in acetone (Omni Solv lot 37197) 2:8 dll 10/7/98

* brought up to vol in benzene (Omni solv lot 35114) dll

10/7/98 1625 INT. STD. 10 000 µg/mL

M.G. 0.2503 g 2,2'-Difluorobiphenyl (PFALTZ & BAUER LOT 042605) DILUTED IN A VOLUMETRIC FLASK W/ BENZENE (EM Sci LOT 35114) UNTIL DISSOLVED PLUS 2,2,4-Trimethylpentane (EM Sci LOT 32365) (~1:1) TO 25.0 mL

~~10/7/98 1656 MS spike (10x mid)~~

~~dll~~ ~~VOID~~

JOB N33 HOLDING TIME STUDY CONT'D

	SOL'N	(mL) USED
10/7/98 M.G.	ULTRA SCIENTIFIC 250 Smith St., North Kingstown, RI 02852 401-294-9400 Phenols Mixture US-107N 1 mL 2000 ug/mL each in Methylene Chloride Lot No. [illegible] Exp. Date [illegible]	0.050
	ULTRA SCIENTIFIC 250 Smith St., North Kingstown, RI 02852 401-294-9400 CUSTOM PESTICIDE STANDARD CUS-2818 1 mL 500 ug/mL in METHYLENE CHLORIDE Lot No. M-1146 Exp. Date 08/1999	0.200
	ULTRA SCIENTIFIC 250 Smith St., North Kingstown, RI 02852 401-294-9400 CUSTOM STANDARD CUS-2816 1 mL 2000 ug/mL in METHYLENE CHLORIDE Lot No. M-1149 Exp. Date 08/1999	0.050
	ULTRA SCIENTIFIC 250 Smith St., North Kingstown, RI 02852 401-294-9400 Base/Neutral Extractables Mixture SVM-101A 1 mL 500 ug/mL each in Methylene Chloride Lot No. M-501A Exp. Date 03/00	0.200

END

10/9/98 dm: 8080 Surr. Std. 0.2 µg/ml
2.5 ml 8080 surrogate (2.0 µg/ml) MG. 1/3/97 dil. to 25 ml in volumetric w/ acetone (Omnisolv 37197)

10/12/98 M.G.: NNDMA INT. STD. @ 100 µg/mL (2,2'-DFB)
0.100 mL OF 1625 INT. STD. (10/7/98, MG, 10000 µg/mL DILUTED IN A VOLUMETRIC FLASK TO 10.0 mL WITH $MeCl_2$ (EM Sci Lot 38217)

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory Report

for

Foster Wheeler Environmental, Inc
611 Anton Boulevard

Suite 800

Costa Mesa , CA 92626

Attention: Mark Cutler
Fax: (714)444-5560

MONTGOMERY WATSON LABS.
SUBMITTED ON
NOV 11 1998

DEB* Debbie Frank

Report#: 48665
JPL

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Report
Comments
#48665

(981027216)
CUSTOMMS
Analytical results for CUSTOMMS NNDMA were submitted by Pacific Analytical, Inc.

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory
Report
#48665

Foster Wheeler Environmental, Inc
Mark Cutler
611 Anton Boulevard
Suite 800
Costa Mesa , CA 92626

Samples Received
27-oct-1998 17:23:56

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-984-042 (981027216) Sampled on 10/27/98								
	11/03/98		( )	Custom GCMS Analysis	see attchd	None	0.0000	1
			1,4-Dioxane					
11/02/98	11/05/98	86944	(ML/SW 8270)	1,4-Dioxane	ND	ug/l	3.0	1
			(Surrogate)	2-Flurobiphenyl	66	% Rec		
			(Surrogate)	Nitrobenzene-d5	63	% Rec		
			(Surrogate)	Terphenyl-d14	50	% Rec		
MW-984-008 (981027217) Sampled on 10/27/98								
	11/03/98		( )	Custom GCMS Analysis	see attchd	None	0.0000	1
			1,4-Dioxane					
11/02/98	11/05/98	86944	(ML/SW 8270)	1,4-Dioxane	ND	ug/l	3.0	1
			(Surrogate)	2-Flurobiphenyl	69	% Rec		
			(Surrogate)	Nitrobenzene-d5	65	% Rec		
			(Surrogate)	Terphenyl-d14	61	% Rec		

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory
QC Report
#48665

Foster Wheeler Environmental, Inc

QC Batch #86944 1,4-Dioxane

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	1,4-Dioxane	10	8.16	81.6	(70.00 - 130.00)	
MBLK	1,4-Dioxane	ND				
MS	1,4-Dioxane	10	8.00	80.0	(70.00 - 130.00)	
MSD	1,4-Dioxane	20	17.4	87.0	(70.00 - 130.00)	
MS	Spiked sample	Lab # 98	1028244		(0.00 - 0.00)	

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES

November 18, 1998

Foster Wheeler Environmental
611 Anton Blvd Suite 800
Costa Mesa, CA.92626

Attention: Mark Cutler

Re: Report # 48734(MW-984-088, -031, -032, -039, -015, -200, -016)

Dear Mark,

Enclosed please find data deliverables for the recent JPL project. A detailed quality control (QC) summary follows:

Non-conformance (LCS, MS/MSD, Surrogates, and Holding Times):
None
Samples requiring dilution (with increased MRL's):
Diluted for anions: MW-984-031
Diluted for Carbon Tetrachloride: MW-984-039, -015
Diluted for Chloroform: MW-984-039
Diluted for Trichloroethylene: MW-984-031, -032, -039
Diluted for Perchlorate: MW-984-039, -015
Method blanks with compounds detected:
None
Other Comments:
1,1,1-Trichloroethane was detected in sample ID: MW-984-039
1,1-Dichloroethylene was detected in sample ID: MW-984-031, -032, -039, -015
1,2-Dichloroethane was detected in sample ID: MW-984-039, -15
Carbon Tetrachloride was detected in sample ID: MW-984-031, -032, -039, -015
Chloroform was detected in sample ID: MW-984-031, -032, -039, -015
Tetrachloroethylene was detected in sample ID: MW-984-039, 015
Trichloroethylene was detected in sample ID: MW-984-031, -032, -039, -015
Trichlorotrifluoroethane was detected in sample ID: MW-984-031, -032, -039, -015
Chromium was detected in sample ID: MW-984-031, -032, -039
Hexavalent Chrome was detected in sample ID: MW-984-031, 032
Perchlorate is reported as ND for sample ID: MW-984-031, -032, -039, -015

a Division of Montgomery Watson Americas, Inc.

555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400
Fax: 626 568 6324

4820 South Mill Avenue
Suite 202
Tempe, Arizona 85282
Tel: 602 755 8201
Fax: 602 755 8203

Quality Environmental Analysis

TICS:

Carbon Disulfide was detected in sample ID: MW-984-039, -015, -200 This compound is a solvent that is used in the laboratory. This compound was used in the laboratory on the day of the original analyses. The method blanks analyzed with the samples did not contain this analyte based on the TIC protocol, and the absence of the minor ion. An MS/MSD vial was submitted and analyzed for MW-984-039 in the same run. MW-984-015 and -200 were re-analyzed on 11/18/98, from previously opened vials (the vials both contained headspace). The spectra were reviewed and the Carbon Disulfide concentrations are not consistent in the samples. It is unclear, from the information that the laboratory has, whether the source is airborne laboratory contamination, field contamination, or present in the sample source.

Method Variance:

None

Sincerely,

Debbie Frank
Project Manager

cc: Judy Novelly (JPL)

Montgomery Watson Laboratories
, Los Angeles, CA 90051-3508
PHONE: 626-568-6400/FAX: 626-568-6324

ACKNOWLEDGMENT OF SAMPLES RECEIVED

Foster Wheeler Environmental, Inc
611 Anton Boulevard
Suite 800
Costa Mesa, CA 92626
Attn: Mark Cutler

Customer Code: ENSERCH
PO#: Sub PO#007618-0004
Group#: 48734
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

The following samples were received from you on 10/28/98. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using Montgomery Watson Laboratories.

Sample#	Sample Id	Tests Scheduled	Matrix	Sample Date
981028236	MW-984-088		Water	10/28/98
		@EBASVOA		
981028237	MW-984-031		Water	10/28/98
		@EBASVOA CR-VI PB-EBAS CR-EBAS AS-EBAS		
		TDS CATION1 ANION1 PH EC HCO3		
		CO3 ALK NO3 SO4 CL FE-MS		
		K NA MG CA CLO4		
981028238	MW-984-032		Water	10/28/98
		@EBASVOA AS-EBAS CR-EBAS PB-EBAS CR-VI		
		CLO4		
981028239	MW-984-039		Water	10/28/98
		@EBASVOA CR-VI PB-EBAS CR-EBAS AS-EBAS		
		TDS CATION1 ANION1 PH EC HCO3		
		CO3 ALK NO3 SO4 CL FE-MS		
		K NA MG CA CLO4		
981028240	MW-984-015		Water	10/28/98
		@EBASVOA CLO4 CA MG NA		
		K FE-MS CL SO4 NO3 ALK		
		CO3 HCO3 EC PH ANION1 CATIO		
		TDS AS-EBAS CR-EBAS PB-EBAS CR-VI		
981028241	MW-984-200		Water	10/28/98
		@EBASVOA AS-EBAS CR-EBAS PB-EBAS CR-VI		
		CLO4		
981028242	MW-984-016		Water	10/28/98
		@EBASVOA CR-VI PB-EBAS CR-EBAS AS-EBAS		
		TDS CATION1 ANION1 PH EC HCO3		
		CO3 ALK NO3 SO4 CL FE-MS		
		K NA MG CA CLO4		

Test Acronym Description

Test Acronym	Description

Foster Wheeler Environmental, Inc
611 Anton Boulevard
Suite 800
Costa Mesa, CA 92626
Attn: Mark Cutler

Customer Code: ENSERCH
PO#: Sub PO#007618-0004
Group#: 48734
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

Test Acronym Description

Test Acronym	Description
@EBASVOA	Regulated VOCs plus Lists 1&3
ALK	Alkalinity
ANION1	Anion Sum
AS-EBAS	Arsenic, Total, GF
CA	Calcium, Total, ICAP
CATION1	Cation Sum
CL	Chloride
CLO4	Perchlorate
CO3	Carbonate as CO3, Calculated
CR-EBAS	Chromium, Total, ICAP/MS
CR-VI	Hexavalent chromium (Cr VI)
EC	Specific Conductance
FE-MS	Iron, Total, ICAP/MS
HCO3	Bicarbonate as HCO3,calculated
K	Potassium, Total, ICAP
MG	Magnesium, Total, ICAP
NA	Sodium, Total, ICAP
NO3	Nitrate-N by IC
PB-EBAS	Lead, Total, ICAP/MS
PH	Lab pH
SO4	Sulfate
TDS	Total Dissolved Solid (TDS)

NUMBER 2102

48734

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

PROJECT: JPL

OFS NO.: 1572.0260

PROJECT ADDRESS: 4800 OAK GROVE DR PASADENA CA

SAMPLER (Name): J. BRENNEY

SAMPLER (Signature): J. B

LABORATORY: MONTGOMERY WATSON LABS

REPORTS TO BE SENT TO: MR. MARK CUTLER

HAZARD IDENTIFICATION: Non Hazard [X] Reactive [ ] Flammable [ ] Toxic [ ] Skin Irritant [ ] Infectious [ ]

TIME REQUIRED: NORMAL [X] ___ DAYS; RUSH [ ] ___ DAYS

ANALYSES REQUIRED

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL: WATER	SOIL	OTHER (Describe)	VOCs (5242)	TOTAL As, Cr, Pb (6010/7000)	MAJOR ANIONS + TDS	Hex Cr	PERCHLORATE	MS FOR VOCs	MSD FOR VOCs	MS/MSD FOR METALS	OC FOR Cr-6+
MW-954-085	0925	10/25/98	2	2x40ml	X			X								
MW-954-031	0935		6	2x40ml 1x250ml 2x125ml 1x500ml	X			X	X	X	X	X				
MW-954-032	0945		5	2x40ml 1x250ml 2x125ml	X			X	X		X	X				
MW-954-039	1130		6	2x40ml 2x125ml 2x500ml	X			X	X	X	X	X			X	
MW-954-039MS	1130		2	2x40ml	X								X			
MW-954-039MS	1130		2	2x40ml	X									X		
MW-954-015	1400		6	2x40ml 1x250ml 2x125ml 1x500ml	X			X	X	X	X	X				
MW-954-200	1345		5	2x40ml 1x250ml 2x125ml	X			X	X		X	X				
MW-954-01	15:35	per field records J. Brenner 10/29/98 DEB 10/29/98	6	2x40ml 1x250ml 2x125ml 1x500ml	X			X	X	X	X	X				X

LABORATORY INSTRUCTIONS/COMMENTS

LEVEL IV QA/QC

RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)	RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)
[signature]	10-28-98	[signature]			
COMPANY	TIME	COMPANY	COMPANY	TIME	COMPANY
[illegible]	10:47	[illegible]			

F-2

SHIPPING COPY

MONTGOMERY LABORATORIES COOLER RECEIPT FORM

PROJECT: ENSERCH Date Received: 10-28-98

Use other side of this form to note further details concerning check-in problems and to describe any action(s) regarding the resolution(s) of problems.

A. PRELIMINARY EXAMINATION: Date cooler opened: 10-28-98
by (print) Mike Chhiang (sign) [signature]

1. Did cooler come with shipping slip (air bill, etc.)? Yes **No**
   If YES, attach & enter carrier and air bill # here: _____

2. Were custody seals on outside of cooler? Yes No
   If YES, how many & where: 2 outside cooler
   If Yes, enter the following: seal date: 10-28-98, seal name: BD

3. Were custody seals unbroken & intact at delivery? **Yes** No

4. Were custody papers sealed in bag & taped to lid? **Yes** No

5. Were custody papers filled out properly (ink, etc.) **Yes** No

6. Did you sign custody papers in appropriate place? **Yes** No

7. Was project identifiable from custody papers? **Yes** No

8. Have designated person(s) initial to acknowledge receipt: _____(date)_____

B. LOG-IN PHASE: Date samples were logged-in: _____ by:
(print)_____(sign)_____

9. Describe packing:

10. If required, was enough ice used? **Yes** No

11. Were all bottles sealed in separate plastic bags? **Yes** No

12. Did all bottles arrive unbroken/in good condition? **Yes** No

13. Were all bottle labels complete (ID,date,sign,pres)? **Yes** No

14. Did all bottle labels agree with custody papers? **Yes** No
    If NO, indicate descrepancies on back.

15. Were correct containers useed for the analytes? **Yes** No

16. Were correct preservatives used when required? **Yes** No

17. Was sufficient amount of sample sent for tests? **Yes** No

18. Bubbles absent in VOA vials? **Yes** No
    If NO, list by sample id on back.

19. Was Client Services informed of problems? Yes **No**

Report Summary of positive results, PR48734

			Result	MDL	UNITS
Analyzed	981028236	MW-984-088			
Analyzed	981028237	MW-984-031			
10/30/98	1,1-Dichloroethylene		1.1	.500	UGL
10/30/98	Carbon Tetrachloride		9.0	.500	UGL
10/30/98	Chloroform (Trichloromethane)		9.3	.500	UGL
11/04/98	Trichloroethylene (TCE)		20	1.000	UGL
10/30/98	Trichlorotrifluoroethane(Freon		0.5	.500	UGL
11/03/98	Alkalinity		170	2.000	MGL
11/10/98	Anion Sum		6.33	.001	MEQL
11/10/98	Bicarbonate as HCO3,calculated		207	.001	MGL
11/02/98	Calcium, Total, ICAP		63.0	1.000	MGL
11/10/98	Carbonate as CO3, Calculated		0.213	.001	MGL
11/09/98	Cation Sum		6.14	.001	MEQL
10/30/98	Chloride		28.1	2.000	MGL
11/02/98	Chromium, Total, ICAP/MS		36	10.000	UGL
10/28/98	Hexavalent chromium (Cr VI)		0.0288	.005	MGL
11/02/98	Lab pH		7.2	.001	UNIT
11/02/98	Magnesium, Total, ICAP		21.1	.100	MGL
10/30/98	Nitrate-N by IC		10.8	.200	MGL
11/10/98	Perchlorate		86	4.000	UGL
11/02/98	Potassium, Total, ICAP		2.63	1.000	MGL
11/02/98	Sodium, Total, ICAP		27.3	1.000	MGL
11/03/98	Specific Conductance		620	4.000	UMHO
10/30/98	Sulfate		65.7	4.000	MGL
11/02/98	Total Dissolved Solid (TDS)		410	10.000	MGL
Analyzed	981028238	MW-984-032			
10/30/98	1,1-Dichloroethylene		0.9	.500	UGL
10/30/98	Carbon Tetrachloride		9.0	.500	UGL
10/30/98	Chloroform (Trichloromethane)		9.1	.500	UGL
11/04/98	Trichloroethylene (TCE)		19	1.000	UGL
10/30/98	Trichlorotrifluoroethane(Freon		0.6	.500	UGL
11/02/98	Chromium, Total, ICAP/MS		37	10.000	UGL
10/28/98	Hexavalent chromium (Cr VI)		0.0294	.005	MGL
11/10/98	Perchlorate		85	4.000	UGL
Analyzed	981028239	MW-984-039			
10/30/98	1,1,1-Trichloroethane		1.1	.500	UGL
10/30/98	1,1-Dichloroethylene		1.6	.500	UGL
10/30/98	1,2-Dichloroethane		1.5	.500	UGL
11/04/98	Carbon Tetrachloride		51	2.500	UGL
11/04/98	Chloroform (Trichloromethane)		29	2.500	UGL
10/30/98	Tetrachloroethylene (PCE)		1.0	.500	UGL
11/04/98	Trichloroethylene (TCE)		18	2.500	UGL
10/30/98	Trichlorotrifluoroethane(Freon		1.4	.500	UGL
11/03/98	Alkalinity		154	2.000	MGL
11/13/98	Anion Sum		5.79	.001	MEQL
11/10/98	Bicarbonate as HCO3,calculated		188	.001	MGL
11/02/98	Calcium, Total, ICAP		55.3	1.000	MGL
11/10/98	Carbonate as CO3, Calculated		0.244	.001	MGL
11/09/98	Cation Sum		5.63	.001	MEQL

10/30/98	Chloride	23.8	1.000	MGL
11/02/98	Chromium, Total, ICAP/MS	13	10.000	UGL
11/02/98	Lab pH	7.3	.001	UNIT
11/02/98	Magnesium, Total, ICAP	21.4	.100	MGL
10/30/98	Nitrate-N by IC	13.3 (E)	.100	MGL
11/11/98	Perchlorate	220	16.000	UGL
11/02/98	Potassium, Total, ICAP	2.30	1.000	MGL
11/02/98	Sodium, Total, ICAP	24.1	1.000	MGL
11/03/98	Specific Conductance	570	4.000	UMHO
10/30/98	Sulfate	52.3	2.000	MGL
11/02/98	Total Dissolved Solid (TDS)	350	10.000	MGL

Analyzed 981028240 MW-984-015

10/30/98	1,1-Dichloroethylene	1.1	.500	UGL
10/30/98	1,2-Dichloroethane	0.7	.500	UGL
11/04/98	Carbon Tetrachloride	51	2.500	UGL
10/30/98	Chloroform (Trichloromethane)	9.8	.500	UGL
10/30/98	Tetrachloroethylene (PCE)	0.9	.500	UGL
10/30/98	Trichloroethylene (TCE)	18	.500	UGL
10/30/98	Trichlorotrifluoroethane(Freon	3.0	.500	UGL
11/03/98	Alkalinity	139	2.000	MGL
11/10/98	Anion Sum	5.09	.001	MEQL
11/10/98	Bicarbonate as HCO3,calculated	169	.001	MGL
11/02/98	Calcium, Total, ICAP	52.2	1.000	MGL
11/10/98	Carbonate as CO3, Calculated	0.276	.001	MGL
11/09/98	Cation Sum	4.92	.001	MEQL
10/30/98	Chloride	25.5	1.000	MGL
11/02/98	Lab pH	7.4	.001	UNIT
11/02/98	Magnesium, Total, ICAP	17.5	.100	MGL
10/30/98	Nitrate-N by IC	6.71	.100	MGL
11/11/98	Perchlorate	210	16.000	UGL
11/02/98	Potassium, Total, ICAP	2.48	1.000	MGL
11/02/98	Sodium, Total, ICAP	18.5	1.000	MGL
11/03/98	Specific Conductance	500	4.000	UMHO
10/30/98	Sulfate	53.3	2.000	MGL
11/02/98	Total Dissolved Solid (TDS)	320	10.000	MGL

Analyzed 981028241 MW-984-200

Analyzed 981028242 MW-984-016

11/03/98	Alkalinity	135	2.000	MGL
11/10/98	Anion Sum	3.43	.001	MEQL
11/10/98	Bicarbonate as HCO3,calculated	165	.001	MGL
11/02/98	Calcium, Total, ICAP	36.2	1.000	MGL
11/10/98	Carbonate as CO3, Calculated	0.214	.001	MGL
11/09/98	Cation Sum	3.46	.001	MEQL
10/30/98	Chloride	5.37	1.000	MGL
11/02/98	Lab pH	7.3	.001	UNIT
11/02/98	Magnesium, Total, ICAP	12.1	.100	MGL
10/30/98	Nitrate-N by IC	0.69	.100	MGL
11/02/98	Potassium, Total, ICAP	2.12	1.000	MGL
11/02/98	Sodium, Total, ICAP	13.8	1.000	MGL
11/03/98	Specific Conductance	340	4.000	UMHO
10/30/98	Sulfate	25.2	2.000	MGL
11/02/98	Total Dissolved Solid (TDS)	220	10.000	MGL

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory Report

for

Foster Wheeler Environmental, Inc
611 Anton Boulevard

Suite 800

Costa Mesa , CA 92626

Attention: Mark Cutler
Fax: (714)444-5560

MONTGOMERY WATSON LABS.
SUBMITTED ON
NOV 16 1998

DEB* Debbie Frank

Report#: 48734
JPL

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Report
Comments
#48734

(981028239)
NO3
Result over calibration range. Confirmed by re-run with dilution on 11/06/98. RPD for two results are <20%.

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory Report #48734

Foster Wheeler Environmental, Inc
Mark Cutler
611 Anton Boulevard
Suite 800
Costa Mesa , CA 92626

Samples Received
28-oct-1998 17:22:42

MW-984-088 (981028236) Sampled on 10/28/98

Regulated VOCs plus Lists 1&3

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	10/30/98	86935	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	10/30/98	86935	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	10/30/98	86935	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	10/30/98	86935	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	103	% Rec		
			(Surrogate)	4-Bromofluorobenzene	103	% Rec		
			(Surrogate)	Toluene-d8	97	% Rec		

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-984-031 (981028237) Sampled on 10/28/98								
	11/03/98	86969	(ML/S2320B)	Alkalinity	170	mg/l	2.0	1
	11/10/98		(ML/SM1040)	Anion Sum	6.33	meq/l	0.0010	1
11/02/98	11/05/98	87003	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
11/02/98	11/02/98	86693	(EPA/ML 200.7)	Calcium, Total, ICAP	63.0	mg/l	1.0	1
	11/09/98		(ML/SM1040)	Cation Sum	6.14	meq/l	0.0010	1
	10/30/98	86670	(ML/EPA 300)	Chloride	28.1	mg/l	2.0	2
	11/10/98	87095	(MOD/EPA 300)	Perchlorate	86	ug/l	4.0	1
	11/10/98		(ML/S2320-B)	Carbonate as CO3, Calculated	0.213	mg/l	0.0010	1
11/02/98	11/02/98	86760	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	36	ug/l	10	1
	10/28/98	86487	(ML/SW 7196)	Hexavalent chromium (Cr VI)	0.0288	mg/l	0.005	1
	11/03/98	86713	(ML/S2510B)	Specific Conductance	620	umho/cm	4.0	1
11/02/98	11/02/98	86762	(EPA/ML 200.8)	Iron, Total, ICAP/MS	ND	ug/l	100	1
	11/10/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	207	mg/l	0.0010	1
11/02/98	11/02/98	86695	(ML/EPA 200.7)	Potassium, Total, ICAP	2.63	mg/l	1.0	1
11/02/98	11/02/98	86697	(ML/EPA 200.7)	Magnesium, Total, ICAP	21.1	mg/l	0.10	1
11/02/98	11/02/98	86700	(ML/EPA 200.7)	Sodium, Total, ICAP	27.3	mg/l	1.0	1
	10/30/98	86672	(ML/EPA 300.0)	Nitrate-N by IC	10.8	mg/l	0.20	2
11/02/98	11/02/98	86761	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	11/02/98	86662	(ML/SM 4500H)	Lab pH	7.2	Units	0.0010	1
	10/30/98	86674	(ML/EPA 300.0)	Sulfate	65.7	mg/l	4.0	2
	11/02/98	86732	(ML/S2540C)	Total Dissolved Solid (TDS)	410	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	10/30/98	86935	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1-Dichloroethylene	1.1	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	10/30/98	86935	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	10/30/98	86935	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	10/30/98	86935	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Carbon Tetrachloride	9.0	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Chloroform (Trichloromethane)	9.3	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	10/30/98	86935	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	11/04/98	86935	(ML/EPA 524.2)	Trichloroethylene (TCE)	20	ug/l	1.0	2
	10/30/98	86935	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	0.5	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	106	% Rec		
			(Surrogate)	4-Bromofluorobenzene	100	% Rec		
			(Surrogate)	Toluene-d8	101	% Rec		

MW-984-032 (981028238) Sampled on 10/28/98

11/02/98	11/05/98	87003	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	11/10/98	87095	(MOD/EPA 300)	Perchlorate	85	ug/l	4.0	1
11/02/98	11/02/98	86760	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	37	ug/l	10	1
	10/28/98	86487	(ML/SW 7196)	Hexavalent chromium (Cr VI)	0.0294	mg/l	0.005	1
11/02/98	11/02/98	86761	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1

Regulated VOCs plus Lists 1&3

	10/30/98	86935	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1-Dichloroethylene	0.9	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	10/30/98	86935	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	10/30/98	86935	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	10/30/98	86935	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Carbon Tetrachloride	9.0	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Chloroform (Trichloromethane)	9.1	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	10/30/98	86935	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	11/04/98	86935	(ML/EPA 524.2)	Trichloroethylene (TCE)	19	ug/l	1.0	2
	10/30/98	86935	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	0.6	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	96	% Rec		
			(Surrogate)	4-Bromofluorobenzene	97	% Rec		
			(Surrogate)	Toluene-d8	99	% Rec		

MW-984-039 (981028239) Sampled on 10/28/98

	11/03/98	86969	(ML/S2320B)	Alkalinity	154	mg/l	2.0	1
	11/13/98		(ML/SM1040)	Anion Sum	5.79	meq/l	0.0010	1
11/02/98	11/05/98	87003	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
11/02/98	11/02/98	86693	(EPA/ML 200.7)	Calcium, Total, ICAP	55.3	mg/l	1.0	1
	11/09/98		(ML/SM1040)	Cation Sum	5.63	meq/l	0.0010	1
	10/30/98	86670	(ML/EPA 300)	Chloride	23.8	mg/l	1.0	1
	11/11/98	87108	(MOD/EPA 300)	Perchlorate	220	ug/l	16	4
	11/10/98		(ML/S2320-B)	Carbonate as CO3, Calculated	0.244	mg/l	0.0010	1
11/02/98	11/02/98	86760	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	13	ug/l	10	1
	10/28/98	86487	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	11/03/98	86713	(ML/S2510B)	Specific Conductance	570	umho/cm	4.0	1
11/02/98	11/02/98	86762	(EPA/ML 200.8)	Iron, Total, ICAP/MS	ND	ug/l	100	1
	11/10/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	188	mg/l	0.0010	1
11/02/98	11/02/98	86695	(ML/EPA 200.7)	Potassium, Total, ICAP	2.30	mg/l	1.0	1
11/02/98	11/02/98	86697	(ML/EPA 200.7)	Magnesium, Total, ICAP	21.4	mg/l	0.10	1
11/02/98	11/02/98	86700	(ML/EPA 200.7)	Sodium, Total, ICAP	24.1	mg/l	1.0	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	10/30/98	87231	(ML/EPA 300.0)	Nitrate-N by IC	13.3 (E)	mg/l	0.10	1
11/02/98	11/02/98	86761	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	11/02/98	86662	(ML/SM 4500H)	Lab pH	7.3	Units	0.0010	1
	10/30/98	86674	(ML/EPA 300.0)	Sulfate	52.3	mg/l	2.0	1
	11/02/98	86732	(ML/S2540C)	Total Dissolved Solid (TDS)	350	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	10/30/98	86935	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1,1-Trichloroethane	1.1	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1-Dichloroethylene	1.6	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2-Dichloroethane	1.5	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	10/30/98	86935	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	10/30/98	86935	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	11/04/98	86935	(ML/EPA 524.2)	Carbon Tetrachloride	51	ug/l	2.5	5
	10/30/98	86935	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	11/04/98	86935	(ML/EPA 524.2)	Chloroform (Trichloromethane)	29	ug/l	2.5	5
	10/30/98	86935	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	1.0	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	11/04/98	86935	(ML/EPA 524.2)	Trichloroethylene (TCE)	18	ug/l	2.5	5
	10/30/98	86935	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	1.4	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	Carbon disulfide	13	ug/L		1
			(Surrogate)	1,2-Dichloroethane-d4	105	% Rec		
			(Surrogate)	4-Bromofluorobenzene	96	% Rec		
			(Surrogate)	Toluene-d8	96	% Rec		

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-984-015 (981028240) Sampled on 10/28/98								
	11/03/98	86969	(ML/S2320B)	Alkalinity	139	mg/l	2.0	1
	11/10/98		(ML/SM1040)	Anion Sum	5.09	meq/l	0.0010	1
11/02/98	11/05/98	87003	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
11/02/98	11/02/98	86693	(EPA/ML 200.7)	Calcium, Total, ICAP	52.2	mg/l	1.0	1
	11/09/98		(ML/SM1040)	Cation Sum	4.92	meq/l	0.0010	1
	10/30/98	86670	(ML/EPA 300)	Chloride	25.5	mg/l	1.0	1
	11/11/98	87108	(MOD/EPA 300)	Perchlorate	210	ug/l	16	4
	11/10/98		(ML/S2320-B)	Carbonate as CO3, Calculated	0.276	mg/l	0.0010	1
11/02/98	11/02/98	86760	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	10/28/98	86487	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	11/03/98	86713	(ML/S2510B)	Specific Conductance	500	umho/cm	4.0	1
11/02/98	11/02/98	86762	(EPA/ML 200.8)	Iron, Total, ICAP/MS	ND	ug/l	100	1
	11/10/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	169	mg/l	0.0010	1
11/02/98	11/02/98	86695	(ML/EPA 200.7)	Potassium, Total, ICAP	2.48	mg/l	1.0	1
11/02/98	11/02/98	86697	(ML/EPA 200.7)	Magnesium, Total, ICAP	17.5	mg/l	0.10	1
11/02/98	11/02/98	86700	(ML/EPA 200.7)	Sodium, Total, ICAP	18.5	mg/l	1.0	1
	10/30/98	86672	(ML/EPA 300.0)	Nitrate-N by IC	6.71	mg/l	0.10	1
11/02/98	11/02/98	86761	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	11/02/98	86662	(ML/SM 4500H)	Lab pH	7.4	Units	0.0010	1
	10/30/98	86674	(ML/EPA 300.0)	Sulfate	53.3	mg/l	2.0	1
	11/02/98	86732	(ML/S2540C)	Total Dissolved Solid (TDS)	320	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	10/30/98	86935	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1-Dichloroethylene	1.1	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	10/30/98	86935	(ML/EPA 524.2)	1,2-Dichloroethane	0.7	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	10/30/98	86935	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	10/30/98	86935	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	11/04/98	86935	(ML/EPA 524.2)	Carbon Tetrachloride	51	ug/l	2.5	5
	10/30/98	86935	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Chloroform (Trichloromethane)	9.8	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	10/30/98	86935	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	0.9	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Trichloroethylene (TCE)	18	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	3.0	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	Carbon disulfide	3.4	ug/L		1
			(Surrogate)	1,2-Dichloroethane-d4	108	% Rec		
			(Surrogate)	4-Bromofluorobenzene	95	% Rec		
			(Surrogate)	Toluene-d8	98	% Rec		

MW-984-200 (981028241) Sampled on 10/28/98

11/02/98	11/05/98	87003	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	11/10/98	87095	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
11/02/98	11/02/98	86760	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	10/28/98	86487	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
11/02/98	11/02/98	86761	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1

Regulated VOCs plus Lists 1&3

	10/30/98	86935	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	10/30/98	86935	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	10/30/98	86935	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	10/30/98	86935	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	10/30/98	86935	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	Carbon disulfide	1.9	ug/L		1
			(Surrogate)	1,2-Dichloroethane-d4	100	% Rec		
			(Surrogate)	4-Bromofluorobenzene	94	% Rec		
			(Surrogate)	Toluene-d8	92	% Rec		

MW-984-016 (981028242) Sampled on 10/28/98

	11/03/98	86969	(ML/S2320B)	Alkalinity	135	mg/l	2.0	1
	11/10/98		(ML/SM1040)	Anion Sum	3.43	meq/l	0.0010	1
11/02/98	11/05/98	87003	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
11/02/98	11/02/98	86693	(EPA/ML 200.7)	Calcium, Total, ICAP	36.2	mg/l	1.0	1
	11/09/98		(ML/SM1040)	Cation Sum	3.46	meq/l	0.0010	1
	10/30/98	86670	(ML/EPA 300)	Chloride	5.37	mg/l	1.0	1
	11/10/98	87095	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	11/10/98		(ML/S2320-B)	Carbonate as CO3, Calculated	0.214	mg/l	0.0010	1
11/02/98	11/02/98	86760	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	10/28/98	86487	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	11/03/98	86713	(ML/S2510B)	Specific Conductance	340	umho/cm	4.0	1
11/02/98	11/02/98	86762	(EPA/ML 200.8)	Iron, Total, ICAP/MS	ND	ug/l	100	1
	11/10/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	165	mg/l	0.0010	1
11/02/98	11/02/98	86695	(ML/EPA 200.7)	Potassium, Total, ICAP	2.12	mg/l	1.0	1
11/02/98	11/02/98	86697	(ML/EPA 200.7)	Magnesium, Total, ICAP	12.1	mg/l	0.10	1
11/02/98	11/02/98	86700	(ML/EPA 200.7)	Sodium, Total, ICAP	13.8	mg/l	1.0	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	10/30/98	86672	(ML/EPA 300.0)	Nitrate-N by IC	0.69	mg/l	0.10	1
11/02/98	11/02/98	86761	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	11/02/98	86662	(ML/SM 4500H)	Lab pH	7.3	Units	0.0010	1
	10/30/98	86674	(ML/EPA 300.0)	Sulfate	25.2	mg/l	2.0	1
	11/02/98	86732	(ML/S2540C)	Total Dissolved Solid (TDS)	220	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	10/30/98	86935	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	10/30/98	86935	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	10/30/98	86935	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	10/30/98	86935	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	109	% Rec		
			(Surrogate)	4-Bromofluorobenzene	97	% Rec		
			(Surrogate)	Toluene-d8	101	% Rec		

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory QC Report #48734

Foster Wheeler Environmental, Inc

QC Batch #86487 Hexavalent chromium (Cr VI)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1028242		(0.00 - 0.00)	
LCS1	Hexavalent chromium (Cr VI)	0.050	0.0500	100.0	(78.00 - 118.00)	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.0506	101.2	(78.00 - 118.00)	1.2
MBLK	Hexavalent chromium (Cr VI)	ND				
MS	Hexavalent chromium (Cr VI)	0.050	0.0500	100.0	(80.00 - 120.00)	
MSD	Hexavalent chromium (Cr VI)	0.050	0.0506	101.2	(80.00 - 120.00)	1.2

QC Batch #86662 Lab pH

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	lab # 98	1030239		(0.00 - 0.00)	

QC Batch #86670 Chloride

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1027211		(0.00 - 0.00)	
LCS1	Chloride	25	26.0	104.0	(90.00 - 110.00)	
LCS2	Chloride	25	25.6	102.4	(90.00 - 110.00)	1.6
MBLK	Chloride	ND				
MS	Chloride	25	27.0	108.0	(80.00 - 120.00)	
MSD	Chloride	25	27.1	108.4	(80.00 - 120.00)	0.37

QC Batch #86672 Nitrate-N by IC

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1027211		(0.00 - 0.00)	
LCS1	Nitrate-N by IC	2.5	2.57	102.8	(90.00 - 110.00)	
LCS2	Nitrate-N by IC	2.5	2.52	100.8	(90.00 - 110.00)	2.0
MBLK	Nitrate-N by IC	ND				
MS	Nitrate-N by IC	2.5	2.66	106.4	(80.00 - 120.00)	
MSD	Nitrate-N by IC	2.5	2.67	106.8	(80.00 - 120.00)	0.38

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory
QC Report
#48734

Foster Wheeler Environmental, Inc
(continued)

QC Batch #86674 Sulfate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1027211		(0.00 - 0.00)	
LCS1	Sulfate	50	51.6	103.2	(90.00 - 110.00)	
LCS2	Sulfate	50	50.6	101.2	(90.00 - 110.00)	2.0
MBLK	Sulfate	ND				
MS	Sulfate	50	54.8	109.6	(80.00 - 120.00)	
MSD	Sulfate	50	55.0	110.0	(80.00 - 120.00)	0.36

QC Batch #86693 Calcium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1028239		(0.00 - 0.00)	
LCS1	Calcium, Total, ICAP	50	56.8	113.6	(85.00 - 115.00)	
LCS2	Calcium, Total, ICAP	50	56.5	113.0	(85.00 - 115.00)	0.53
MBLK	Calcium, Total, ICAP	ND				
MS	Calcium, Total, ICAP	50	47.1	94.2	(70.00 - 130.00)	
MSD	Calcium, Total, ICAP	50	47.2	94.4	(70.00 - 130.00)	0.21

QC Batch #86695 Potassium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1028239		(0.00 - 0.00)	
LCS1	Potassium, Total, ICAP	20	19.6	98.0	(80.00 - 110.00)	
LCS2	Potassium, Total, ICAP	20	19.4	97.0	(80.00 - 110.00)	1.0
MBLK	Potassium, Total, ICAP	ND				
MS	Potassium, Total, ICAP	20	19.0	95.0	(80.00 - 120.00)	
MSD	Potassium, Total, ICAP	20	19.0	95.0	(80.00 - 120.00)	0.00

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory
QC Report
#48734

Foster Wheeler Environmental, Inc
(continued)

QC Batch #86697 Magnesium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1028239		(0.00 - 0.00)	
LCS1	Magnesium, Total, ICAP	20	20.2	101.0	(85.00 - 115.00)	
LCS2	Magnesium, Total, ICAP	20	20.1	100.5	(85.00 - 115.00)	0.50
MBLK	Magnesium, Total, ICAP	ND				
MS	Magnesium, Total, ICAP	20	19.2	96.0	(70.00 - 130.00)	
MSD	Magnesium, Total, ICAP	20	19.2	96.0	(70.00 - 130.00)	0.00

QC Batch #86700 Sodium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1028239		(0.00 - 0.00)	
LCS1	Sodium, Total, ICAP	50	51.5	103.0	(85.00 - 115.00)	
LCS2	Sodium, Total, ICAP	50	51.2	102.4	(85.00 - 115.00)	0.58
MBLK	Sodium, Total, ICAP	ND				
MS	Sodium, Total, ICAP	50	48.2	96.4	(70.00 - 130.00)	
MSD	Sodium, Total, ICAP	50	48.2	96.4	(70.00 - 130.00)	0.00

QC Batch #86713 Specific Conductance

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 98	1030236		(0.00 - 0.00)	

QC Batch #86732 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 98	1026102		(0.00 - 0.00)	
LCS1	Total Dissolved Solid (TDS)	175	176	100.6	(85.00 - 115.00)	
LCS2	Total Dissolved Solid (TDS)	700	672	96.0	(85.00 - 115.00)	
MBLK	Total Dissolved Solid (TDS)	ND				

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory
QC Report
#48734

Foster Wheeler Environmental, Inc
(continued)

QC Batch #86760 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab# 98	1028239		(0.00 - 0.00)	
LCS1	Chromium, Total, ICAP/MS	100	107	107.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	99	99.0	(85.00 - 115.00)	7.8
MBLK	Chromium, Total, ICAP/MS	ND				
MS	Chromium, Total, ICAP/MS	100	107	107.0	(70.00 - 130.00)	
MSD	Chromium, Total, ICAP/MS	100	99	99.0	(70.00 - 130.00)	7.8

QC Batch #86761 Lead, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab #98	1028239		(0.00 - 0.00)	
LCS1	Lead, Total, ICAP/MS	20.0	20.4	102.0	(85.00 - 115.00)	
LCS2	Lead, Total, ICAP/MS	20.0	19.8	99.0	(85.00 - 115.00)	3.0
MBLK	Lead, Total, ICAP/MS	ND				
MS	Lead, Total, ICAP/MS	20.0	21.6	108.0	(70.00 - 130.00)	
MSD	Lead, Total, ICAP/MS	20.0	20.1	100.5	(70.00 - 130.00)	7.2

QC Batch #86762 Iron, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1028239		(0.00 - 0.00)	
LCS1	Iron, Total, ICAP/MS	500	549	109.8	(85.00 - 115.00)	
LCS2	Iron, Total, ICAP/MS	500	484	96.8	(85.00 - 115.00)	13
MBLK	Iron, Total, ICAP/MS	ND				
MS	Iron, Total, ICAP/MS	500	545	109.0	(70.00 - 130.00)	
MSD	Iron, Total, ICAP/MS	500	483	96.6	(70.00 - 130.00)	12

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory
QC Report
#48734

Foster Wheeler Environmental, Inc
(continued)

QC Batch #86935 Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	8	8.30	103.8	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	8	8.20	102.5	(70.00 - 130.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	8	9.03	112.9	(70.00 - 130.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	8	8.16	102.0	(70.00 - 130.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	8	7.39	92.4	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MS	1,1-Dichloroethylene	8	9.17	114.6	(70.00 - 130.00)	
MSD	1,1-Dichloroethylene	8	8.95	111.9	(70.00 - 130.00)	2.4
MBLK	1,1-Dichloropropene	ND				
MBLK	1,2,3-Trichlorobenzene	ND				
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	8	8.30	103.8	(70.00 - 130.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	8	8.06	100.8	(70.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	8	8.56	107.0	(70.00 - 130.00)	
MBLK	1,2-Dichloropropane	ND				
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	8	7.76	97.0	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
LCS1	p-Dichlorobenzene (1,4-DCB)	8	8.63	107.9	(70.00 - 130.00)	
MBLK	p-Dichlorobenzene (1,4-DCB)	ND				
MBLK	2,2-Dichloropropane	ND				
MBLK	2-Butanone (MEK)	ND				
MBLK	2-Chloroethylvinylether	ND				
MBLK	o-Chlorotoluene	ND				

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

MBLK	p-Chlorotoluene	ND				
MBLK	4-Methyl-2-Pentanone (MIBK)	ND				
MS	Spiked sample	Lab # 98	1028239		(0.00 - 0.00)	
LCS1	Benzene	8	8.61	107.6	(70.00 - 130.00)	
MBLK	Benzene	ND				
MS	Benzene	8	9.45	118.1	(70.00 - 130.00)	
MSD	Benzene	8	8.96	112.0	(70.00 - 130.00)	5.3
MBLK	Bromobenzene	ND				
MBLK	Bromomethane (Methyl Bromide)	ND				
LCS1	cis-1,2-Dichloroethylene	8	8.50	106.2	(70.00 - 130.00)	
MBLK	cis-1,2-Dichloroethylene	ND				
LCS1	Chlorobenzene	8	8.52	106.5	(70.00 - 130.00)	
MBLK	Chlorobenzene	ND				
MS	Chlorobenzene	8	9.20	115.0	(70.00 - 130.00)	
MSD	Chlorobenzene	8	9.10	113.8	(70.00 - 130.00)	1.1
LCS1	Carbon Tetrachloride	8	7.63	95.4	(70.00 - 130.00)	
MBLK	Carbon Tetrachloride	ND				
MBLK	cis-1,3-Dichloropropene	ND				
LCS1	Bromoform	8	7.18	89.8	(70.00 - 130.00)	
MBLK	Bromoform	ND				
LCS1	Chloroform (Trichloromethane)	8	8.75	109.4	(70.00 - 130.00)	
MBLK	Chloroform (Trichloromethane)	ND				
MBLK	Bromochloromethane	ND				
MBLK	Chloroethane	ND				
MBLK	Chloromethane(Methyl Chloride)	ND				
LCS1	Chlorodibromomethane	8	7.79	97.4	(70.00 - 130.00)	
MBLK	Chlorodibromomethane	ND				
MBLK	Dibromomethane	ND				
LCS1	Bromodichloromethane	8	8.40	105.0	(70.00 - 130.00)	
MBLK	Bromodichloromethane	ND				
LCS1	Dichloromethane	8	7.74	96.8	(70.00 - 130.00)	
MBLK	Dichloromethane	ND				
LCS1	Ethyl benzene	8	8.86	110.8	(70.00 - 130.00)	
MBLK	Ethyl benzene	ND				
MBLK	Dichlorodifluoromethane	ND				
LCS1	Fluorotrichloromethane-Freon11	4	4.44	111.0	(70.00 - 130.00)	
MBLK	Fluorotrichloromethane-Freon11	ND				

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

MBLK	Hexachlorobutadiene	ND				
MBLK	Isopropylbenzene	ND				
MBLK	m-Dichlorobenzene (1,3-DCB)	ND				
LCS1	m,p-Xylenes	16	17.7	110.6	(70.00 - 130.00)	
MBLK	m,p-Xylenes	ND				
MBLK	Naphthalene	ND				
MBLK	n-Butylbenzene	ND				
MBLK	n-Propylbenzene	ND				
LCS1	o-Xylene	8	8.88	111.0	(70.00 - 130.00)	
MBLK	o-Xylene	ND				
LCS1	o-Dichlorobenzene (1,2-DCB)	8	8.51	106.4	(70.00 - 130.00)	
MBLK	o-Dichlorobenzene (1,2-DCB)	ND				
LCS1	Tetrachloroethylene (PCE)	8	8.47	105.9	(70.00 - 130.00)	
MBLK	Tetrachloroethylene (PCE)	ND				
MBLK	p-Isopropyltoluene	ND				
MBLK	sec-Butylbenzene	ND				
LCS1	Styrene	8	5.89	73.6	(70.00 - 130.00)	
MBLK	Styrene	ND				
LCS1	1,2-dichloroethane-d4	100	101	101.0	(80.00 - 120.00)	
MBLK	1,2-dichloroethane-d4	100	99	99.0		
MS	1,2-dichloroethane-d4	100	94.4	94.4	(80.00 - 120.00)	
MSD	1,2-dichloroethane-d4	100	97.0	97.0	(80.00 - 120.00)	2.7
LCS1	Toluene-d8	100	98.2	98.2	(80.00 - 120.00)	
MBLK	Toluene-d8	100	102	102.0		
MS	Toluene-d8	100	95.6	95.6	(80.00 - 120.00)	
MSD	Toluene-d8	100	98.0	98.0	(80.00 - 120.00)	2.5
LCS1	4-Bromofluorobenzene	100	95.8	95.8	(80.00 - 120.00)	
MBLK	4-Bromofluorobenzene	100	100	100.0		
MS	4-Bromofluorobenzene	100	96.3	96.3	(80.00 - 120.00)	
MSD	4-Bromofluorobenzene	100	103	103.0	(80.00 - 120.00)	6.7
LCS1	trans-1,2-Dichloroethylene	8	7.69	96.1	(70.00 - 130.00)	
MBLK	trans-1,2-Dichloroethylene	ND				
MBLK	tert-Butylbenzene	ND				
LCS1	Trichloroethylene (TCE)	8	8.39	104.9	(70.00 - 130.00)	
MBLK	Trichloroethylene (TCE)	ND				
MS	Trichloroethylene (TCE)	8	9.03	112.9	(70.00 - 130.00)	
MSD	Trichloroethylene (TCE)	8	8.67	108.4	(70.00 - 130.00)	4.1

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

LCS1	Trichlorotrifluoroethane(Freon	4	4.14	103.5	(70.00 - 130.00)	
MBLK	Trichlorotrifluoroethane(Freon	ND				
MBLK	trans-1,3-Dichloropropene	ND				
LCS1	Toluene	8	8.35	104.4	(70.00 - 130.00)	
MBLK	Toluene	ND				
MS	Toluene	8	8.94	111.8	(70.00 - 130.00)	
MSD	Toluene	8	8.89	111.1	(70.00 - 130.00)	0.56
LCS1	Vinyl chloride (VC)	4	4.58	114.5	(70.00 - 130.00)	
MBLK	Vinyl chloride (VC)	ND				

QC Batch #86969 Alkalinity

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1028024		(0.00 - 0.00)	
LCS1	Alkalinity	96.2	97.0	100.8	(90.00 - 110.00)	
LCS2	Alkalinity	96.2	97.8	101.7	(90.00 - 110.00)	0.82
MBLK	Alkalinity	ND				
MS	Alkalinity	96.2	89.0	92.5	(80.00 - 120.00)	
MSD	Alkalinity	96.2	88.0	91.5	(80.00 - 120.00)	1.1

QC Batch #87003 Arsenic, Total, GF

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab #98	1028239		(0.00 - 0.00)	
LCS1	Arsenic, Total, GF	0.020	0.0216	108.0	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.0220	110.0	(85.00 - 115.00)	1.8
MBLK	Arsenic, Total, GF	ND				
MS	Arsenic, Total, GF	0.020	0.0232	116.0	(70.00 - 130.00)	
MSD	Arsenic, Total, GF	0.020	0.0227	113.5	(70.00 - 130.00)	2.2

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

QC Batch #87095 Perchlorate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1028240		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	20.5	102.5	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	21.1	105.5	(90.00 - 110.00)	2.9
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	18.3	91.5	(75.00 - 125.00)	
MSD	Perchlorate	20.0	18.8	94.0	(75.00 - 125.00)	2.7

QC Batch #87108 Perchlorate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1102362		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	21.3	106.5	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	21.0	105.0	(90.00 - 110.00)	1.4
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	21.9	109.5	(75.00 - 125.00)	
MSD	Perchlorate	20.0	24.1	120.5	(75.00 - 125.00)	9.6

QC Batch #87231 Nitrate-N by IC

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1027211		(0.00 - 0.00)	
LCS1	Nitrate-N by IC	2.5	2.57	102.8	(90.00 - 110.00)	
LCS2	Nitrate-N by IC	2.5	2.52	100.8	(90.00 - 110.00)	2.0
MBLK	Nitrate-N by IC	ND				
MS	Nitrate-N by IC	2.5	2.66	106.4	(80.00 - 120.00)	
MSD	Nitrate-N by IC	2.5	2.67	106.8	(80.00 - 120.00)	0.38

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES

November 17, 1998

Foster Wheeler Environmental
611 Anton Blvd Suite 800
Costa Mesa, CA.92626

Attention: Mark Cutler

Re: Report # 48735 (MW-984-031, -039, -015)

Dear Mark,

Enclosed please find data deliverables for the recent JPL project. A detailed quality control (QC) summary follows:

Non-conformance (LCS, MS/MSD, Surrogates, and Holding Times):
None
Samples requiring dilution (with increased MRL's):
None
Method blanks with compounds detected:
None
Other Comments:
Pacific Analytical, Inc, utilizing EPA method 1625C, analyzed n-Nitrosodimethylamine, NDMA. This is a Gas Chromatographic Mass Spectroscopic methodology utilizing Isotope dilution in Specific Ion Mode, GCMS-SIM. The Reporting limit is 0.03 ppb or 30 ppt. Any detects below the MRL, but above the MDL of 0.005 ppb, would show on the Quantitation Results page. Results below 0.030 ppb but above 0.005 are DNQ, Detect Not Quantifiable. 0.020 ug/ml (sample concentration, 0.020 ppb) is the lowest standard analyzed with the calibration. All samples are Non Detect, ND.

MS/MSD is not performed on the NDMA sample. MS/MSD is not required for Isotope dilution methods and is not required by the project QAPP for this analyte.

1,4-Dioxane is analyzed by EPA method 8270 in the standard operating mode. This is a Gas Chromatographic Mass Spectroscopic methodology. The Minimum Reporting Level is 3.0 ppb.

1,4-Dioxane was detected in sample ID: MW-984-039
TICS:
None
Method Variance:
None

Sincerely,

Debbie Frank
Project Manager

cc: Judy Novelly (JPL)

a Division of Montgomery Watson Americas, Inc.

555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400
Fax: 626 568 6324

4820 South Mill Avenue
Suite 202
Tempe, Arizona 85282
Tel: 602 755 8201
Fax: 602 755 8203

Quality Environmental Analysis

Montgomery Watson Laboratories
, Los Angeles, CA 90051-3508
PHONE: 626-568-6400/FAX: 626-568-6324

ACKNOWLEDGMENT OF SAMPLES RECEIVED

Foster Wheeler Environmental, Inc
611 Anton Boulevard
Suite 800
Costa Mesa, CA 92626
Attn: Mark Cutler

Customer Code: ENSERCH
PO#: Sub PO#007618-0004
Group#: 48735
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

The following samples were received from you on 10/28/98. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using Montgomery Watson Laboratories.

Sample#	Sample Id	Matrix	Sample Date
		Tests Scheduled	
981028243	MW-984-031	Water	10/28/98
		@DIOXANE CUSTOMMS	
981028244	MW-984-039	Water	10/28/98
		@DIOXANE CUSTOMMS	
981028245	MW-984-015	Water	10/28/98
		@DIOXANE CUSTOMMS	

Test Acronym Description

Test Acronym	Description
@DIOXANE	1,4-Dioxane
CUSTOMMS	Custom GCMS Analysis

48735

NUMBER 2703

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PROJECT: JPL

OFS NO.: 1572 0260

PROJECT ADDRESS: 4800 OAK GROVE DR. PASADENA, CA

SAMPLER (Name): J. BIZENNEK

SAMPLER (Signature): B

LABORATORY: MONTGOMERY WATSON LABS

REPORTS TO BE SENT TO: MR. MARK CUTLER

HAZARD IDENTIFICATION: Non Hazard [X] Reactive [ ] Flammable [ ] Toxic [ ] Skin Irritant [ ] Infectious [ ]

TIME REQUIRED: NORMAL [X] ___ DAYS; RUSH [ ] ___ DAYS

ANALYSES REQUIRED

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL: WATER	SOIL	OTHER (Describe)	1,4-DIOXANE	NDMA								
MW-954-031	0935	10/28/98	2	2 x 1 L	X			X	X								
MW-954-039	1130	↓	2	↓	X			X	X								
MW-954-039MS	1130		2		X			X	X								
MW-954-039MSD	1130		2		X			X	X								
MW-954-015	1400		2		X			* X	X								
~~MW-954-06~~		↓	2	↓	X			* X	X								

no ms/msd required not submitted to Pacific Analytical

* DID NOT REC SAMPLES

** DID NOT HAVE TAC NUMBER

no sample intended for this site you J. Brenner 10/28/98

DEB 10/28/98

LABORATORY INSTRUCTIONS/COMMENTS

LEVEL IV QA/QC

RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)	RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)
B	10-28-98	[signature]			
COMPANY: FWENC	TIME: 16:47	COMPANY: MWL	COMPANY	TIME	COMPANY

MONTGOMERY LABORATORIES COOLER RECEIPT FORM

PROJECT: ENSERCH Date Received: 10-28-98

Use other side of this form to note further details concerning check-in problems and to describe any action(s) regarding the resolution(s) of problems.

A. PRELIMINARY EXAMINATION: Date cooler opened: 10-28-98

by (print) Mike Chiang (sign) [signature]

1. Did cooler come with shipping slip (air bill, etc.)? Yes **No**
   If YES, attach & enter carrier and air bill # here: _____

2. Were custody seals on outside of cooler? **Yes** No
   If YES, how many & where: 2 outside of cooler
   If Yes, enter the following: seal date: 10-28-98 seal name: BD

3. Were custody seals unbroken & intact at delivery? **Yes** No

4. Were custody papers sealed in bag & taped to lid? Yes **No**

5. Were custody papers filled out properly (ink, etc.) **Yes** No

6. Did you sign custody papers in appropriate place? **Yes** No

7. Was project identifiable from custody papers? **Yes** ~~No~~ * SEE BACK PAGE

8. Have designated person(s) initial to acknowledge receipt: _____(date)_____

B. LOG-IN PHASE: Date samples were logged-in: _____ by:
   (print)_____(sign)_____

9. Describe packing:

10. If required, was enough ice used? **Yes** No

11. Were all bottles sealed in separate plastic bags? **Yes** No

12. Did all bottles arrive unbroken/in good condition? **Yes** No

13. Were all bottle labels complete (ID,date,sign,pres)? **Yes** No

14. Did all bottle labels agree with custody papers? - 015 missing tag # notified J. Brenner Yes **No** * see back page
    If NO, indicate descrepancies on back.
    MW-984-016 was not used for NDMA Diagram. per Jeff Brenner not intended for further deal 10/28

15. Were correct containers useed for the analytes? **Yes** No

16. Were correct preservatives used when required? **Yes** No DEB 10/2

17. Was sufficient amount of sample sent for tests? **Yes** No

18. Bubbles absent in VOA vials? **Yes** No
    If NO, list by sample id on back.

19. Was Client Services informed of problems? **Yes** No

* MS/MSD not required / not submitted to Pacific analytical DEB 10/28/98

Montgomery Watson Laboratories
555 East Walnut Street
Pasadena, CA 91101
Ph (626) 568-6400 Fax (626) 568-6324

Submittal Form

Date 10/29/98

48735
98-2573

Sub Lab Reference#

MWL Project # 48735 SubPO# 98-2573

Please refer to the MWL Project Number on all reports and invoices

For prompt payment, send report & invoice to attention of: **Martha Frost,** Sub-Contract Administrator, ext 6437

Ship To **Steve Parsons**
Pacific Analytical, Inc
6349 Paseo del Lago
Carlsbad, CA 92009

(760) 438-3100

Report Due **11/13/98**

Format required: **VERBAL+FAX with QC+HARDCOPY**

(California State requires Hard Copy report for California Clients)

1. BATCH QC DATA: Duplicate expected values & recoveries; Lab Control Samples) expected values & recoveries; method blank recoveries; Matrix Spike expected values & recoveries.
2. Sample extraction Date and Sample analysis Date.
4. Sample dilution factor.
5. Sample surrogate recovery & Sample Internal Standard recovery or IS area count in cover letter.
6. A cover letter explaining any missed criteria or discrepancies.

If you have any questions about the samples, please call MWL proj mgr Hillary Strayer 626-568-6412

Please notify us if the report due date will not be met so we may inform our client.

Special Requirements

DEB

Qty	Test Code	Use MWL Lab # for ID	Client Sample ID for reference only	Analysis Requested	Sample Date	Matrix	Container
1	CUSTOMMS	**981028243**	MW-984-031	NDMA	10/28/98	dw	1 1L AM GLASS
1	CUSTOMMS	**981028244**	MW-984-039	NDMA	10/28/98	dw	1 1L AM GLASS
1	CUSTOMMS	**981028245**	MW-984-015	NDMA	10/28/98	dw	1 1L AM GLASS

Relinquished by: Martin DeMesa Sample Control 10/29/98

Received by:

An Acknowledgement of Receipt is requested.

Report Summary of positive results, PR48735

			Result	MDL	UNITS
Analyzed	981028243	MW-984-031			
11/03/98	Custom GCMS Analysis		see attchd		NONE
Analyzed	981028244	MW-984-039			
11/05/98	1,4-Dioxane		3.7	3.000	UGL
11/03/98	Custom GCMS Analysis		see attchd		NONE
Analyzed	981028245	MW-984-015			
11/03/98	Custom GCMS Analysis		see attchd		NONE

NOV 0 - RECD

ENSERCH
48614
48665
48735

PACIFIC
ANALYTICAL, INC.

6349 Paseo Del Lago • Carlsbad, CA 92009
(760) 438-3100 • FAX (760) 931-9479

NARRATIVE REPORT
Method 1625C Semivolatiles

PA Reference: N50. 11/05/98

Samples: 981026103, 981027216, 981027217, 981028243, 981028244, 981028245.

Semivolatiles analysis:

The samples were extracted and analyzed by Method 1625C, modified for the lowest possible detection limits. A 1000 mL aliquot was spiked with 1.0 ug of deuterated N-Nitrosodimethylamine-d6 and extracted with liquid-liquid extractors for 24 hours. The sample extract was concentrated to a final volume of 1.0 mL and then spiked with 1.0 ug of 2,2'-Difluorobiphenyl as an internal recovery standard. The extract was analyzed by GC/MS with the mass spectrometer operating in the "Specific Ion Mode" for greater sensitivity and lower detection limits. The instrument was calibrated with five initial calibration standards ranging from 0.02 ug/mL to 1.00 ug/mL. A recent minimum detection limit study suggests that the instrument is capable of detecting N-Nitrosodimethylamine (NNDMA) at 0.005 ug/mL. However for reporting purposes, our detection limit is 0.03 ug/mL which translates to a sample concentration of 0.03 ug/L.

On-Going Precision and Recovery

A laboratory blank (P&R) was spiked with 0.10 ug of NNDMA and its labeled analog, and extracted and analyzed like a sample for each analytical batch. Recoveries for NNDMA and its label were within method specified recovery limits.

Blanks

A laboratory blank was extracted and analyzed like the sample with each extraction batch. NNDMA was not detected at or above our report limit of 0.03 ug/L.

Sample

The samples 981026103, 981027216, 981027217, 981028243, 981028244, and 981028245 are clean with no NNDMA detected at a concentration greater than or equal to our MDL of 0.005 ug/L.

The data package consists of a summary page followed by a chromatogram and a close up of the extracted ion current profile of NNDMA and its label. This is followed by the raw data printout with areas and scan numbers, and finally a "Quantitation Results" page which lists extract concentrations in ug/mL.

Please contact Mark Gregg or Steve Parsons at (706) 438-3100 if there are any questions concerning this data package.

Mark Gregg
GC/MS Chemist

SAMPLE IDENTIFICATION CROSS REFERENCE TABLE
MONTGOMERY WATSON LAB

JOB N50

MWL Lab #	TAG #	MWL Project #	Client Sample ID	PA's Lab ID	Raw Data File Name
981026103	01490	48614	MW-984-075	N5001	6K03A15
981027216	01501	48665	MW-984-042	N5003	6K03A17
981027217	01509	48665	MW-984-008	N5002	6K03A16
981028243	01540	48735	MW-984-031	N5005	6K03A19
981028244	01553	48735	MW-984-039	N5006	6K03A20
981028245	01569	48735	MW-984-015	N5004	6K03A18

Montgomery Watson Laboratories
555 East Walnut Street
Pasadena, CA 91101
Ph (626) 568-6400 Fax (626) 568-6324

Submittal Form

Date 10/27/98

48614

98-2561

Sub Lab Reference#

MWL Project # 48614 SubPO# 98-2561

Please refer to the MWL Project Number on all reports and invoices

For prompt payment, send report & invoice to attention of: **Martha Frost,** Sub-Contract Administrator, ext 6437

Ship To **Steve Parsons**
Pacific Analytical, Inc
6349 Paseo del Lago
Carlsbad, CA 92009

(760) 438-3100

Report Due 11/11/98

Format required: **FAX with QC+HARDCOPY**

(California State requires Hard Copy report for California Clients)

See attached for ALL QC INFORMATION THAT IS REQUESTED
1. BATCH QC DATA: Duplicate expected values & recoveries; Lab Control Samples) expected values & recoveries; method blank recoveries; Matrix Spike expected values & recoveries.
2. Sample extraction Date and Sample analysis Date.
4. Sample dilution factor.
5. Sample surrogate recovery & Sample Internal Standard recovery or IS area count in cover letter.
6. A cover letter explaining any missed criteria or discrepancies.

If you have any questions about the samples, please call MWL proj mgr Hillary Strayer 626-568-6412

Please notify us if the report due date will not be met so we may inform our client.

Special Requirements

DEB

Qty	Test Code	Use MWL Lab # for ID	Client Sample ID for reference only	Analysis Requested	Sample Date	Matrix	Container
1	CUSTOMMS NDMA	981026103	MW-984-075	N-Nitrosodimethylamine	10/26/98	ww	2 1L amber glass / no preservative

00000

Relinquished by: Martin DeMesa Sample Control 10/27/98

An Acknowledgement of Receipt is requested

Montgomery Watson Laboratories
555 East Walnut Street
Pasadena, CA 91101
Ph (626) 568-6400 Fax (626) 568-6324

Ship To **Steve Parsons**
Pacific Analytical, Inc
6349 Paseo del Lago
Carlsbad, CA 92009

(760) 438-3100

Submittal Form

Date 10/28/98

48665
98-2566

MWL Project # 48665 SubPO# 98-2566

Please refer to the MWL Project Number on all reports and invoices

Sub Lab Reference#

For prompt payment, send report & invoice to attention of: **Martha Frost**, Sub-Contract Administrator, ext 6437

Report Due 11/12/98

Format required: **VERBAL+FAX with QC+HARDCOPY**
(California State requires Hard Copy report for California Clients)

REPORT DUE XX

1. BATCH QC DATA: Duplicate expected values & recoveries; Lab Control Samples) expected values & recoveries; method blank recoveries; Matrix Spike expected values & recoveries.
2. Sample extraction Date and Sample analysis Date.
4. Sample dilution factor.
5. Sample surrogate recovery & Sample Internal Standard recovery or IS area count in cover letter.
6. A cover letter explaining any missed criteria or discrepancies.

If you have any questions about the samples, please call MWL proj mgr Hillary Strayer 626-568-6412
Please notify us if the report due date will not be met so we may inform our client.

Special Requirements

DEB

Qty	Test Code	Use MWL Lab # for ID	Client Sample ID for reference only	Analysis Requested	Sample Date	Matrix	Container
1	CUSTOMMS	981027216	MW-984-042	NDMA	10/27/98	dw	1 1L AMB GLASS
1	CUSTOMMS	981027217	MW-984-008	NDMA	10/27/98	dw	1 1L AMB GLASS

000004

Relinquished by: Martin DeMesa Sample Control 10/28/98

Received by: [illegible]

An Acknowledgement of Receipt is requested

Montgomery Watson Laboratories
555 East Walnut Street
Pasadena, CA 91101
Ph (626) 568-6400 Fax (626) 568-6324

Submittal Form

Date 10/29/98

48735
98-2573

Sub Lab Reference#

MWL Project # 48735 SubPO# 98-2573

Please refer to the MWL Project Number on all reports and invoices

For prompt payment, send report & invoice to attention of: **Martha Frost,** Sub-Contract Administrator, ext 6437

Ship To **Steve Parsons**
Pacific Analytical, Inc
6349 Paseo del Lago
Carlsbad, CA 92009

(760) 438-3100

Report Due 11/13/98

Format required: **VERBAL+FAX with QC+HARDCOPY**

(California State requires Hard Copy report for California Clients)

1. BATCH QC DATA: Duplicate expected values & recoveries; Lab Control Samples) expected values & recoveries; method blank recoveries; Matrix Spike expected values & recoveries.
2. Sample extraction Date and Sample analysis Date.
4. Sample dilution factor.
5. Sample surrogate recovery & Sample Internal Standard recovery or IS area count in cover letter.
6. A cover letter explaining any missed criteria or discrepancies.

If you have any questions about the samples, please call MWL proj mgr Hillary Strayer 626-568-6412

Please notify us if the report due date will not be met so we may inform our client.

Special Requirements

DEB

Qty	Test Code	Use MWL Lab # for ID	Client Sample ID for reference only	Analysis Requested	Sample Date	Matrix	Container
1	CUSTOMMS	981028243	MW-984-031	NDMA	10/28/98	dw	1 1L AM GLASS
1	CUSTOMMS	981028244	MW-984-039	NDMA	10/28/98	dw	1 1L AM GLASS
1	CUSTOMMS	981028245	MW-984-015	NDMA	10/28/98	dw	1 1L AM GLASS

00000

Relinquished by: Martin DeMesa Sample Control 10/29/98

Received by: [illegible] [illegible] [illegible]

An Acknowledgement of Receipt is requested

ISOTOPE DILUTION
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
FORWARD SEARCH LIST

CLIENT SAMPLE NO.

981026103

Lab Name: PACIFIC ANALYTICAL, INC.
Matrix: WATER
Sample wt/vol: 1000 ml
Concentrated Extract Volume: 1000 ul
Injection Volume: 1 ul
GPC Cleanup: N/A
Fraction: Base/Neutral

Lab Sample ID: N5001
Lab File ID: 6K03A15
Date Sampled: 10/26/98
Date Extracted: 10/30/98
Date Analyzed: 11/03/98
Time Analyzed: 2012

Compound	Concentration (ug/L)	Flags	Labelled Cpd. Recovery
N-Nitrosodimethylamine	0.03	U	120 %

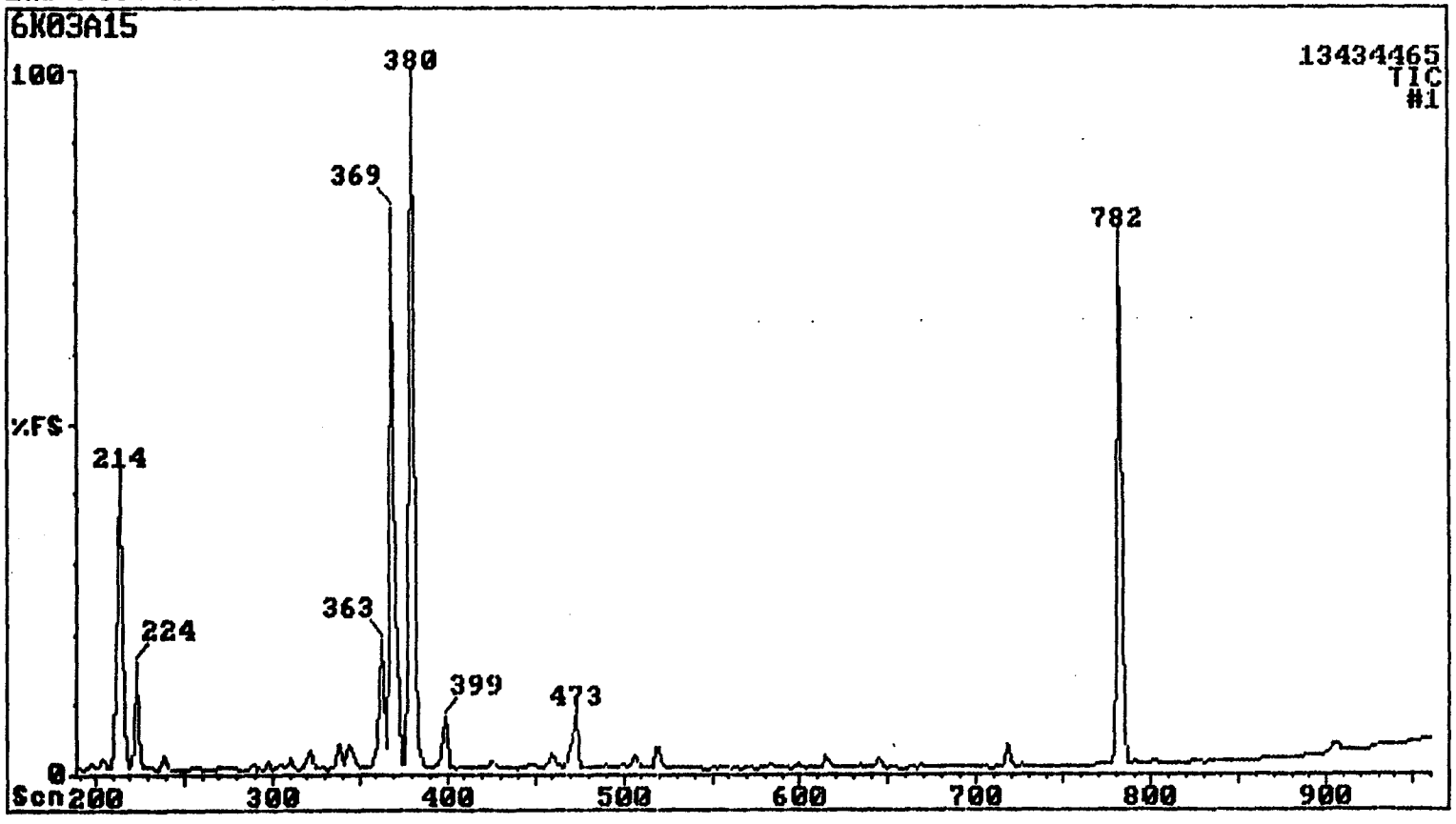
U = Undetected J = Estimated Concentration B = Found in Blank
D = Dilution Results E = Result Exceeds Calibration Curve

MDL = 0.005 ug/L

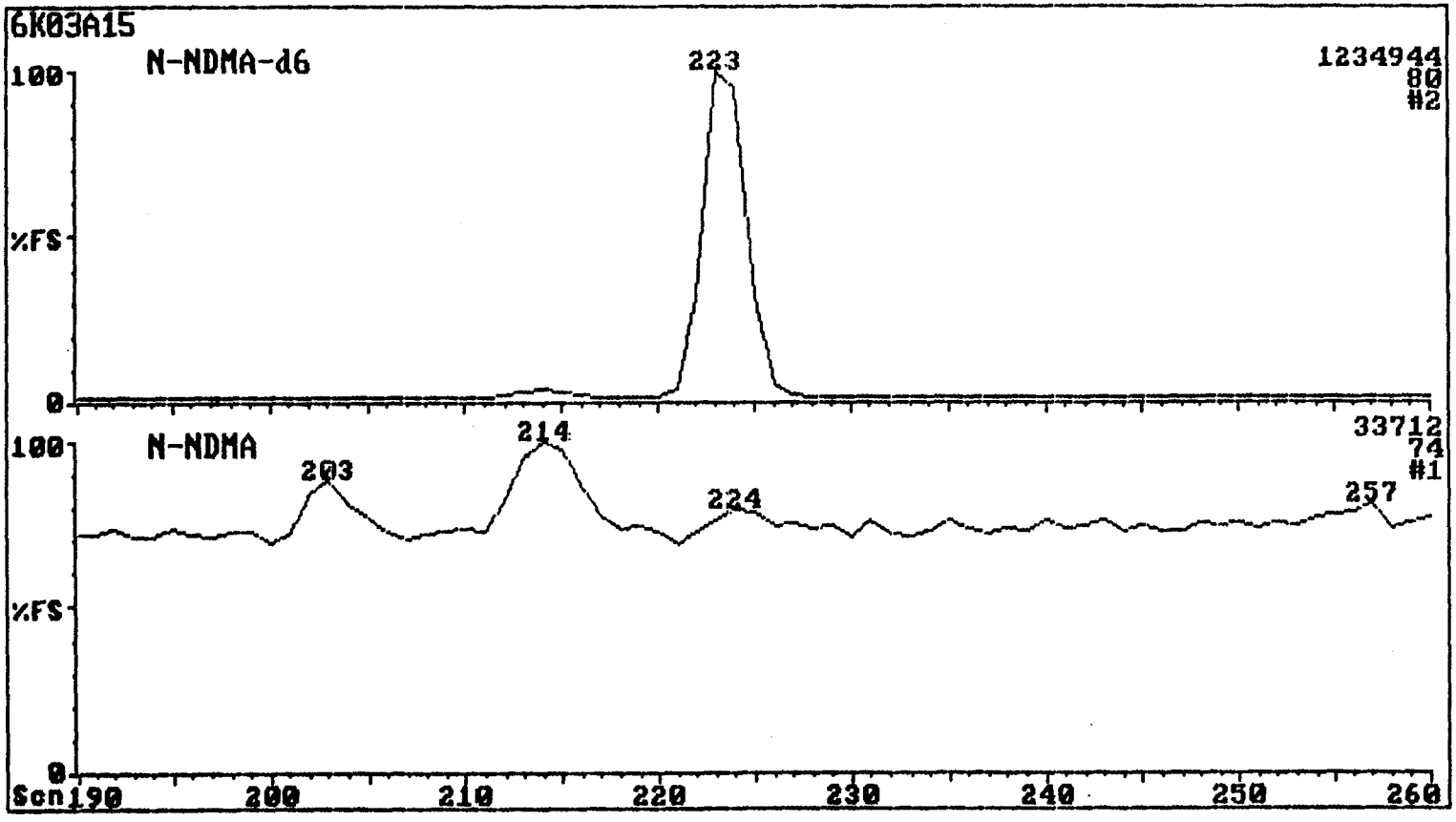
PQL = 0.03 ug/L

Sample No.: 981026103
Lab File ID: 6K03A15

Analyzed: 11/03/98 2012
Instrument ID: VG06



Sample No.: 981026103 Analyzed: 11/03/98 2012
Lab File ID: 6K03A15 Instrument ID: VG06



000008

Sample: 981026103 N5001 Analyzed: 11/03/98 2012
Lab File: 6K03A15 Instrument ID: 06

Interim Report LAB-BASE FIND 11/04/98 0832

Raw Datafile : 6K03A15 Quan DB : 6K03A15
Find DB : NNDMA Scan DB : NONE

No.	Spectrum MAT	Spectrum FOR	Spectrum REV	Scan Diff	Peak Area	Flgs	Scan Found	Pred	QM	Compound Name
1	100	94	100	0	29297143	?v	782	782	190	2,2'-Difluorobiphenyl
2	100	94	100	0	3214186	b?	223	223	80	N-Nitrosodimethylamine-d6
3	85	63	84	1	634	!!	228	227	74	N-Nitrosodimethylamine
	66	65	89	8	2638	!!	235			

Quantitation Results

EPA Name: 981026103 Lab ID: N5001 Lab File: 6K03A1

Instr: 06 ICAL: 6K03 Acquisition Date: 11/03/98 Acquisition Time: 2012

Compound	Target Conc.	Sample Conc.	Label Rec.	Limits
N-Nitrosodimethylamine	0.00	0.00	119.6	25 - 175

ISOTOPE DILUTION
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
FORWARD SEARCH LIST

CLIENT SAMPLE NO.

981027217

Lab Name: PACIFIC ANALYTICAL, INC.
Matrix: WATER
Sample wt/vol: 1000 ml
Concentrated Extract Volume: 1000 ul
Injection Volume: 1 ul
GPC Cleanup: N/A
Fraction: Base/Neutral

Lab Sample ID: N5002
Lab File ID: 6K03A16
Date Sampled: 10/27/98
Date Extracted: 10/30/98
Date Analyzed: 11/03/98
Time Analyzed: 2039

Compound	Concentration (ug/L)	Flags	Labelled Cpd. Recovery
N-Nitrosodimethylamine	0.03	U	112 %

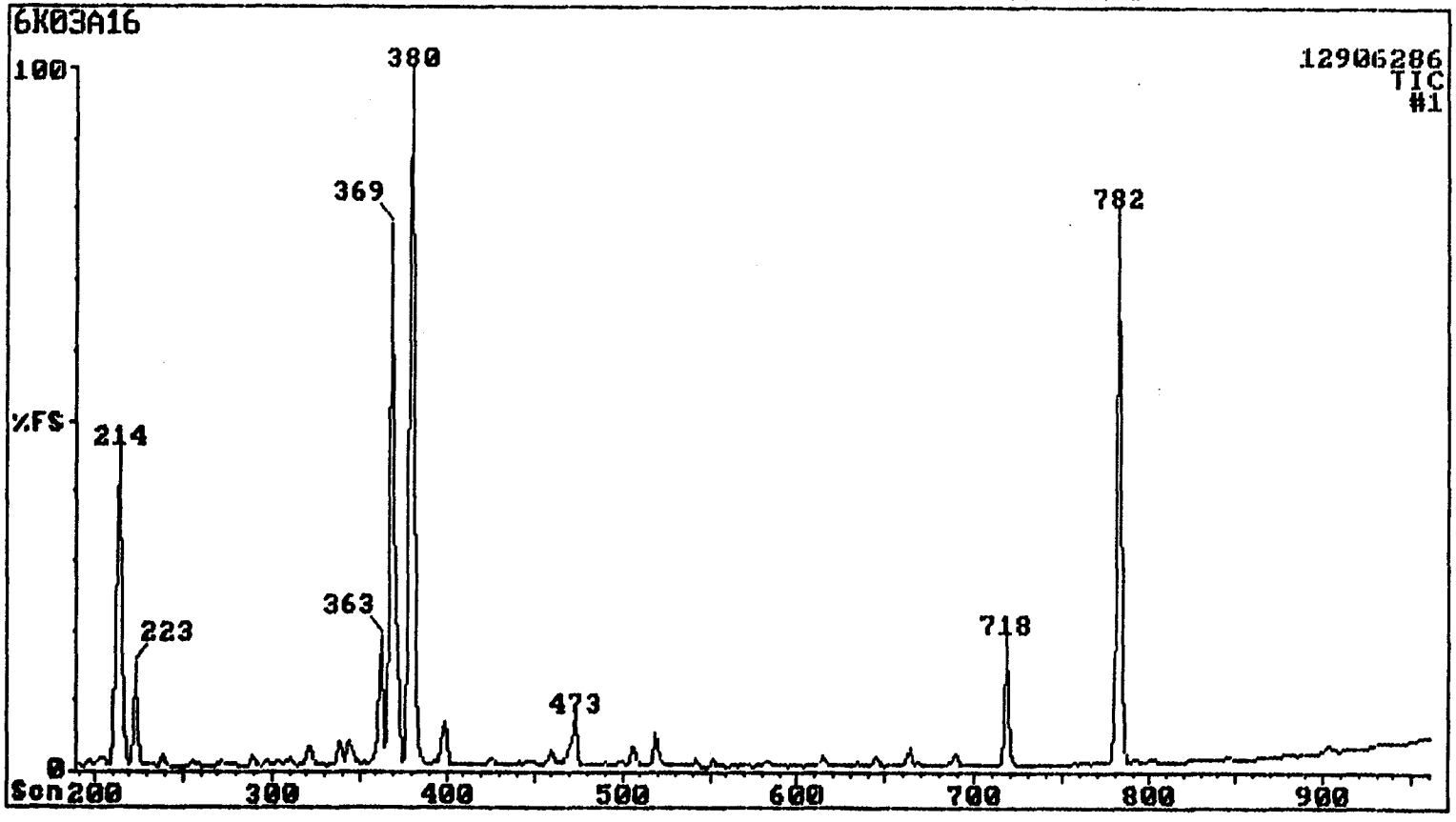
U = Undetected J = Estimated Concentration B = Found in Blank
D = Dilution Results E = Result Exceeds Calibration Curve

MDL = 0.005 ug/L

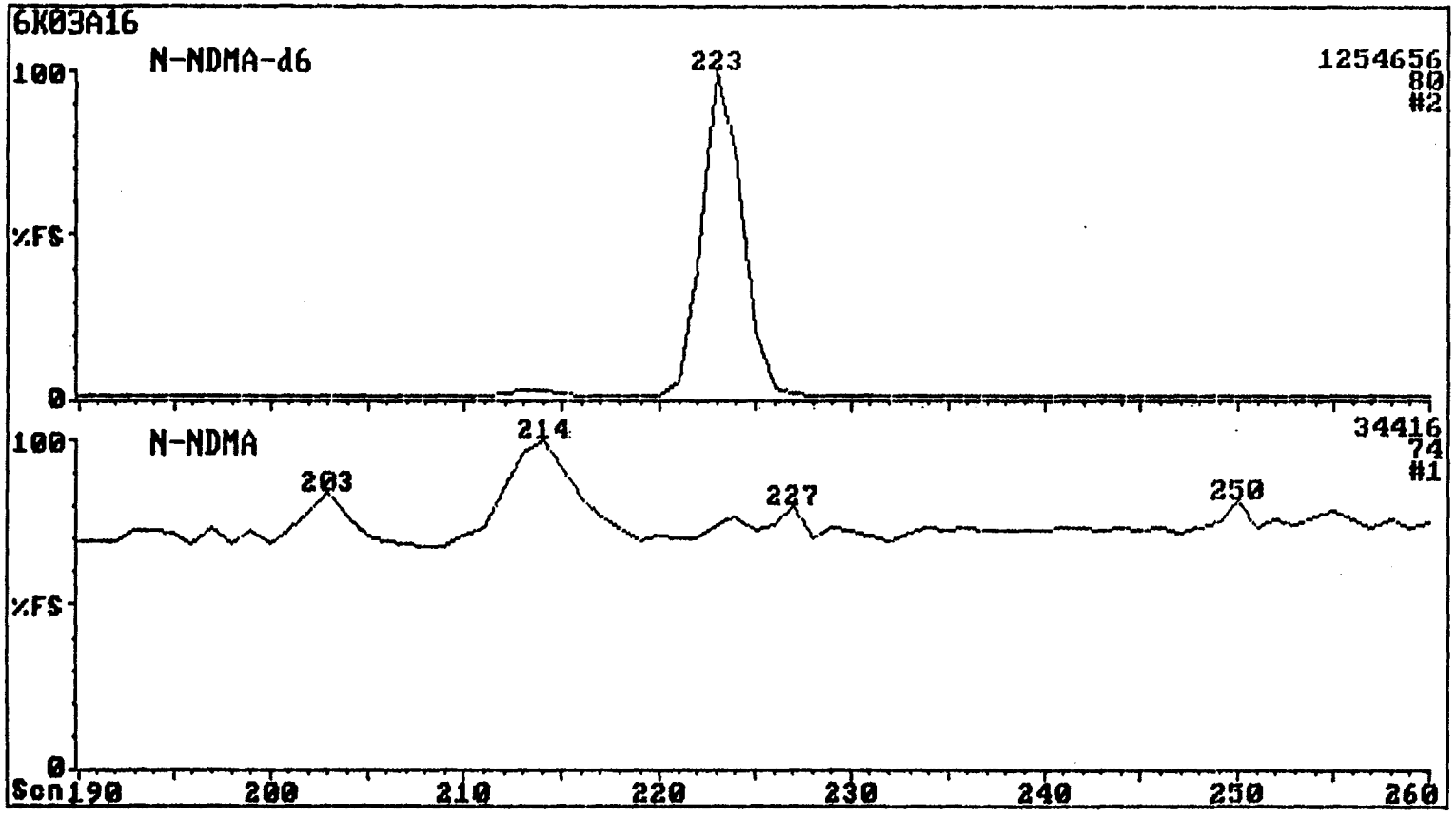
PQL = 0.03 ug/L

Sample No.: 981027217
Lab File ID: 6K03A16

Analyzed: 11/03/98 2039
Instrument ID: VG06



Sample No.: 981027217 Analyzed: 11/03/98 2039
Lab File ID: 6K03A16 Instrument ID: VG06



0000013

Sample: 981027217 N5002 Analyzed: 11/03/98 2039
Lab File: 6K03A16 Instrument ID: 06

Interim Report LAB-BASE FIND 11/04/98 0833

Raw Datafile : 6K03A16 Quan DB : 6K03A16
Find DB : NNDMA Scan DB : NONE

No.	Spectrum MAT	Spectrum FOR	Spectrum REV	Scan Diff	Peak Area	Flgs	Scan Found	Pred	QM	Compound Name
1	100	93	100	0	29180250	?v	782	782	190	2,2'-Difluorobiphenyl
2	100	94	99	0	2992472	b?	223	223	80	N-Nitrosodimethylamine-d6
3	93	60	88	0	3720	!!	227	227	74	N-Nitrosodimethylamine
	66	65	89	7	2111	!!	234			

Quantitation Results

EPA Name: 981027217 Lab ID: N5002 Lab File: 6K03A16

Instr: 06 ICAL: 6K03 Acquisition Date: 11/03/98 Acquisition Time: 2039

Compound	Target Conc.	Sample Conc.	Label Rec.	Limits
N-Nitrosodimethylamine	0.00	0.00	111.8	25 - 175

ISOTOPE DILUTION
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
FORWARD SEARCH LIST

CLIENT SAMPLE NO.

981027216

Lab Name: PACIFIC ANALYTICAL, INC.
Matrix: WATER
Sample wt/vol: 1000 ml
Concentrated Extract Volume: 1000 ul
Injection Volume: 1 ul
GPC Cleanup: N/A
Fraction: Base/Neutral

Lab Sample ID: N5003
Lab File ID: 6K03A17
Date Sampled: 10/27/98
Date Extracted: 10/30/98
Date Analyzed: 11/03/98
Time Analyzed: 2105

Compound	Concentration (ug/L)	Flags	Labelled Cpd. Recovery
N-Nitrosodimethylamine	0.03	U	121 %

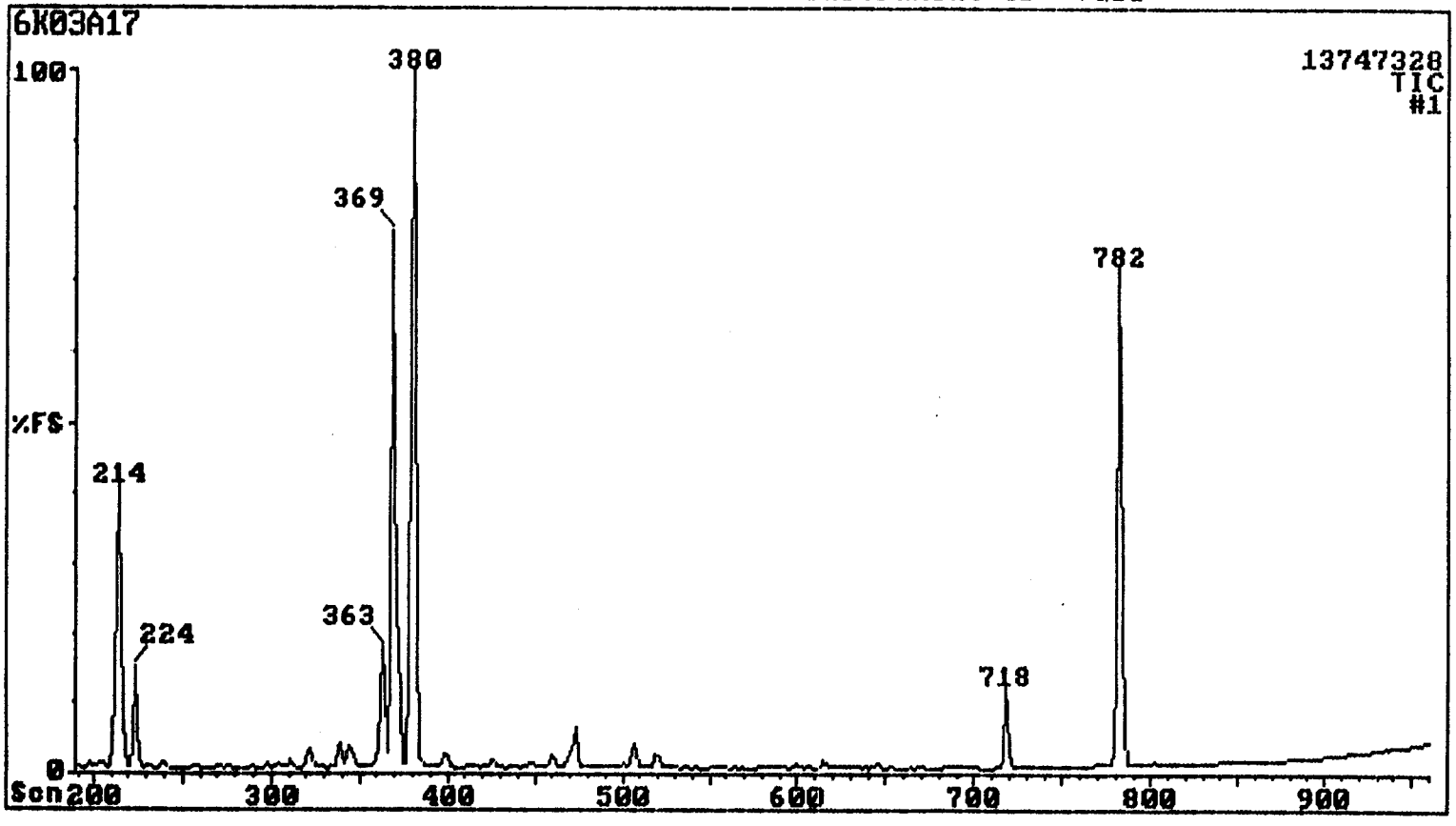
U = Undetected J = Estimated Concentration B = Found in Blank
D = Dilution Results E = Result Exceeds Calibration Curve

MDL = 0.005 ug/L

PQL = 0.03 ug/L

Sample No.: 981027216
Lab File ID: 6K03A17

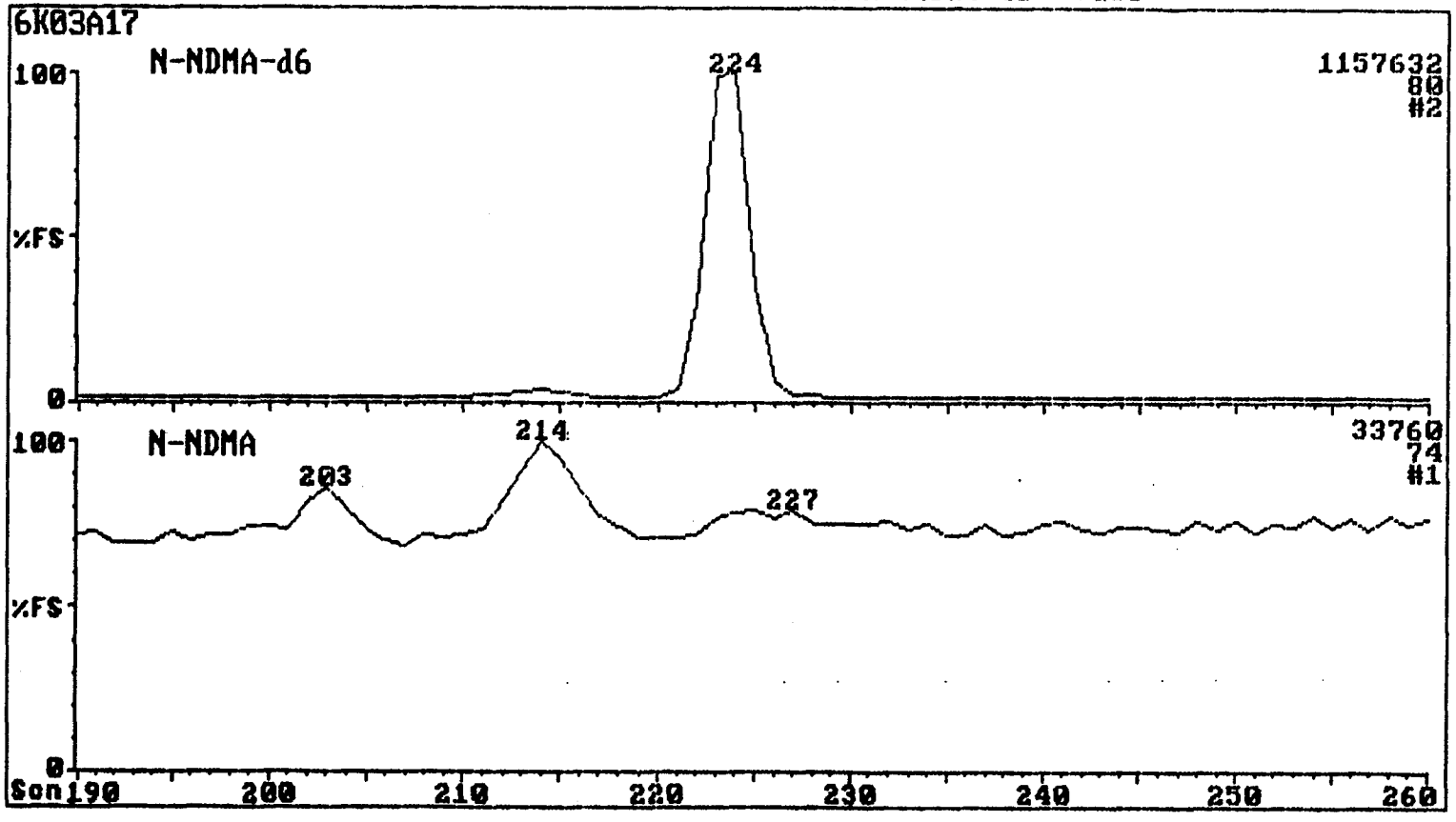
Analyzed: 11/03/98 2105
Instrument ID: VG06



J00017

Sample No.: 981027216
Lab File ID: 6K03A17

Analyzed: 11/03/98 2105
Instrument ID: VG06



Sample: 981027216 N5003 Analyzed: 11/03/98 2105
Lab File: 6K03A17 Instrument ID: 06

Interim Report LAB-BASE FIND 11/04/98 0834

Raw Datafile : 6K03A17 Quan DB : 6K03A17
Find DB : NNDMA Scan DB : NONE

No.	Spectrum MAT	FOR	REV	Scan Diff	Peak Area	Flgs	Scan Found	Pred	QM	Compound Name
1	100	93	100	0	27455593	?v	782	782	190	2,2'-Difluorobiphenyl
2	100	94	100	1	3058944	bb	224	223	80	N-Nitrosodimethylamine-d6
3	73	65	88	5	1029	!!	233	228	74	N-Nitrosodimethylamine
	62	65	87	9	1124	!!	237			
	44	65	90	13	2600	!!	241			

Quantitation Results

EPA Name: 981027216 Lab ID: N5003 Lab File: 6K03A1

Instr: 06 ICAL: 6K03 Acquisition Date: 11/03/98 Acquisition Time: 2105

Compound	Target Conc.	Sample Conc.	Label Rec.	Limits
N-Nitrosodimethylamine	0.00	0.00	121.5	25 - 175

ISOTOPE DILUTION
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
FORWARD SEARCH LIST

CLIENT SAMPLE NO.

981028245

Lab Name: PACIFIC ANALYTICAL, INC.
Matrix: WATER
Sample wt/vol: 1000 ml
Concentrated Extract Volume: 1000 ul
Injection Volume: 1 ul
GPC Cleanup: N/A
Fraction: Base/Neutral

Lab Sample ID: N5004
Lab File ID: 6K03A18
Date Sampled: 10/28/98
Date Extracted: 10/30/98
Date Analyzed: 11/03/98
Time Analyzed: 2132

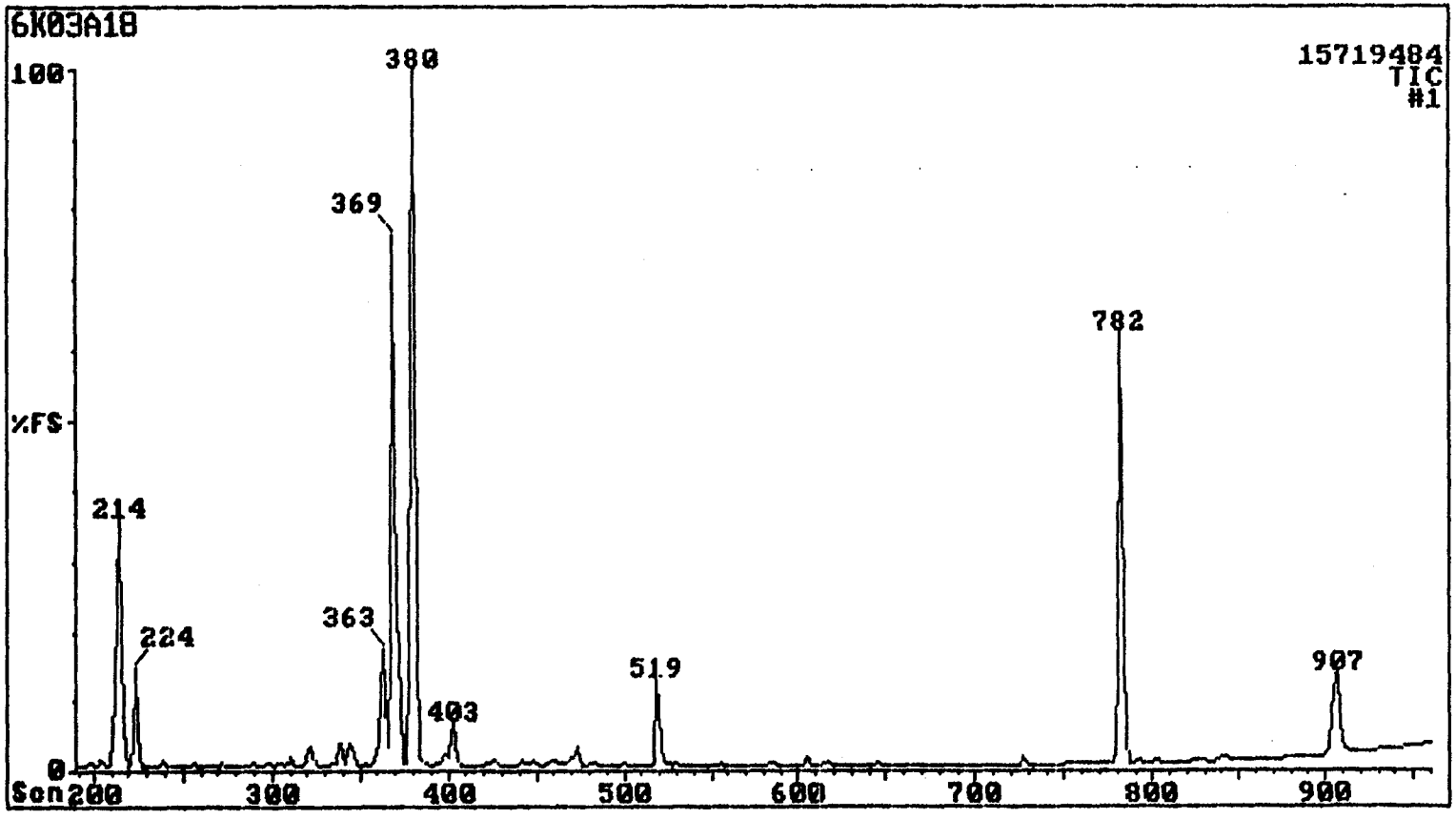
Compound	Concentration (ug/L)	Flags	Labelled Cpd. Recovery
N-Nitrosodimethylamine	0.03	U	142 %

U = Undetected J = Estimated Concentration B = Found in Blank
D = Dilution Results E = Result Exceeds Calibration Curve

MDL = 0.005 ug/L

PQL = 0.03 ug/L

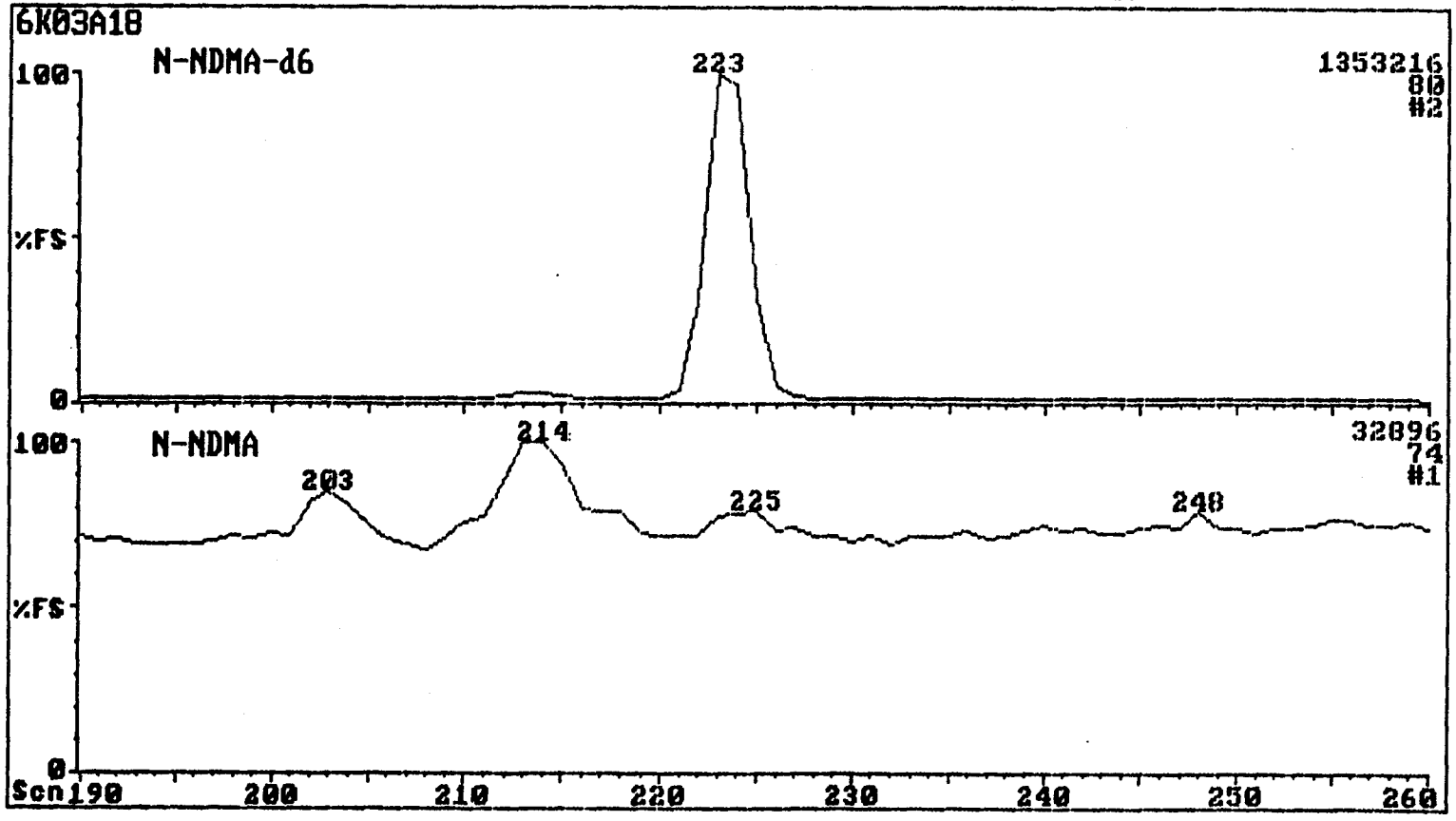
Sample No.: 981028245 Analyzed: 11/03/98 2132
Lab File ID: 6K03A18 Instrument ID: VG06



000022

Sample No.: 981028245
Lab File ID: 6K03A18

Analyzed: 11/03/98 2132
Instrument ID: VG06



000023

Sample: 981028245 N5004 Analyzed: 11/03/98 2132
Lab File: 6K03A18 Instrument ID: 06

Interim Report LAB-BASE FIND 11/04/98 0835

Raw Datafile : 6K03A18 Quan DB : 6K03A18
Find DB : NNDMA Scan DB : NONE

No.	Spectrum MAT	Spectrum FOR	Spectrum REV	Scan Diff	Peak Area	Flgs	Scan Found	Pred	QM	Compound Name
1	100	93	100	0	27152167	?v	782	782	190	2,2'-Difluorobiphenyl
2	100	95	100	0	3530314	b?	223	223	80	N-Nitrosodimethylamine-d6
3	90	61	89	0	768	!!	227	227	74	N-Nitrosodimethylamine
	63	64	90	9	1641	!!	236			

Quantitation Results

EPA Name: 981028245 Lab ID: N5004 Lab File: 6K03A18

Instr: 06 ICAL: 6K03 Acquisition Date: 11/03/98 Acquisition Time: 2132

Compound	Target Conc.	Sample Conc.	Label Rec.	Limits
N-Nitrosodimethylamine	0.00	0.00	141.8	25 - 175

ISOTOPE DILUTION
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
FORWARD SEARCH LIST

CLIENT SAMPLE NO.

981028243

Lab Name: PACIFIC ANALYTICAL, INC.
Matrix: WATER
Sample wt/vol: 1000 ml
Concentrated Extract Volume: 1000 ul
Injection Volume: 1 ul
GPC Cleanup: N/A
Fraction: Base/Neutral

Lab Sample ID: N5005
Lab File ID: 6K03A19
Date Sampled: 10/28/98
Date Extracted: 10/30/98
Date Analyzed: 11/03/98
Time Analyzed: 2158

Compound	Concentration (ug/L)	Flags	Labelled Cpd. Recovery
N-Nitrosodimethylamine	0.03	U	130 %

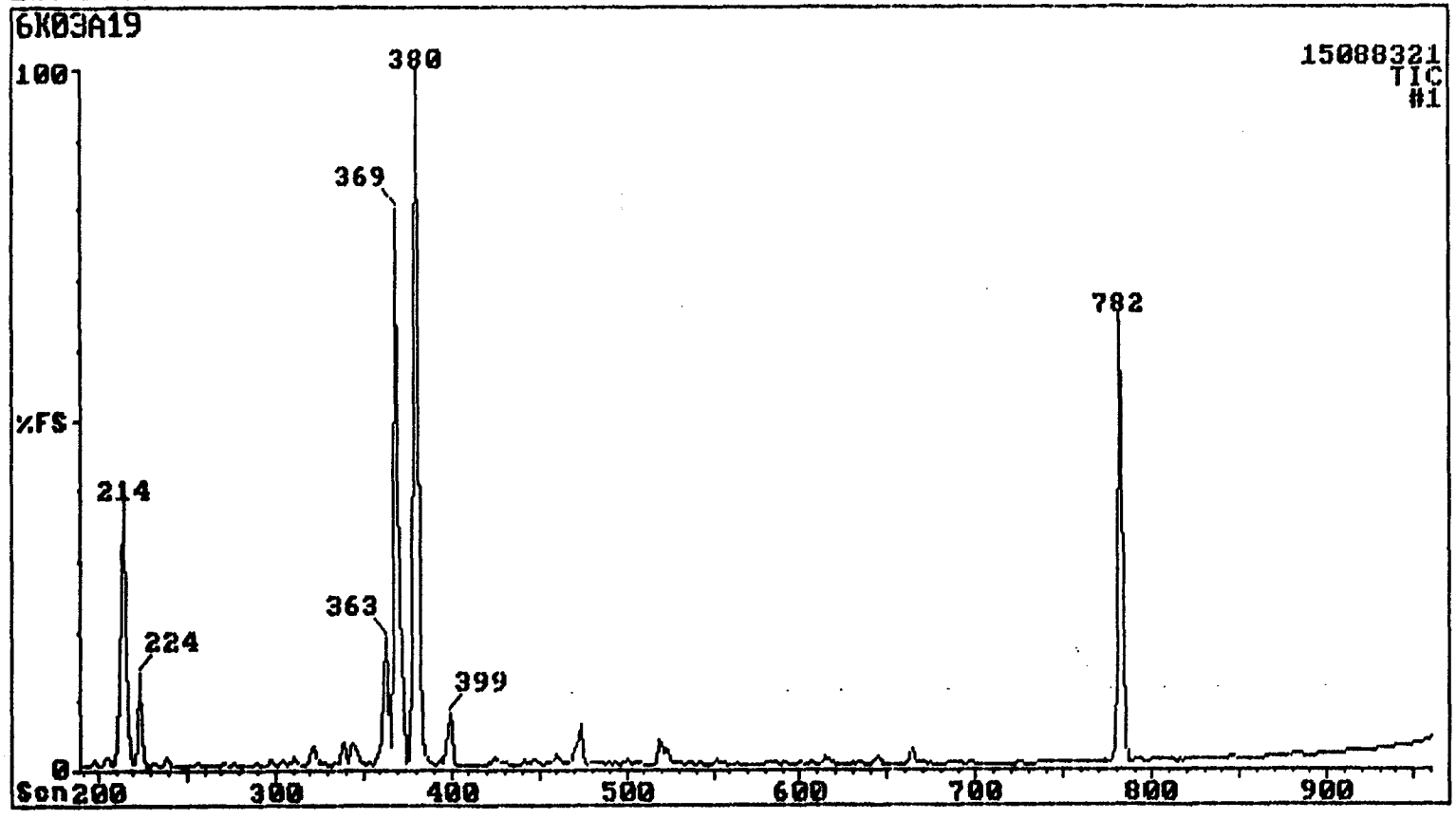
U = Undetected J = Estimated Concentration B = Found in Blank
D = Dilution Results E = Result Exceeds Calibration Curve

MDL = 0.005 ug/L

PQL = 0.03 ug/L

Sample No.: 981028243
Lab File ID: 6K03A19

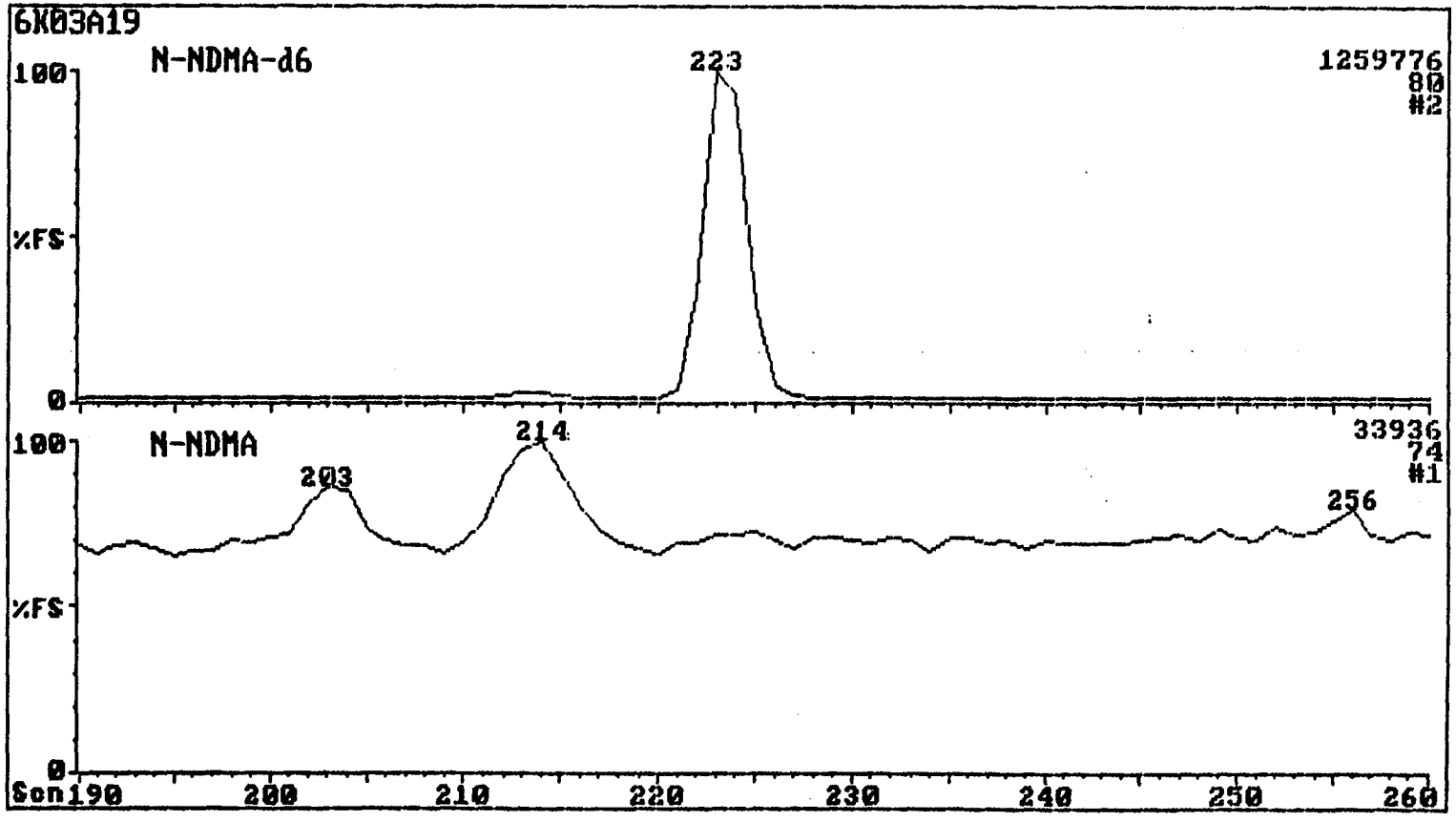
Analyzed: 11/03/98 2158
Instrument ID: VG06



0000027

Sample No.: 981028243
Lab File ID: 6K03A19

Analyzed: 11/03/98 2158
Instrument ID: VG06



000028

Sample: 981028243 N5005 Analyzed: 11/03/98 2158
Lab File: 6K03A19 Instrument ID: 06

Interim Report LAB-BASE FIND 11/04/98 0836

Raw Datafile : 6K03A19 Quan DB : 6K03A19
Find DB : NNDMA Scan DB : NONE

No.	Spectrum MAT	Spectrum FOR	Spectrum REV	Scan Diff	Peak Area	Flgs	Scan Found	Pred	QM	Compound Name
1	100	93	100	0	27178133	?v	782	782	190	2,2'-Difluorobiphenyl
2	100	94	100	0	3244074	b?	223	223	80	N-Nitrosodimethylamine-d6
3	72	64	86	5	1476	!!	232	227	74	N-Nitrosodimethylamine
	63	65	89	8	3204	!!	235			

Quantitation Results

EPA Name: 981028243 Lab ID: N5005 Lab File: 6K03A19

Instr: 06 ICAL: 6K03 Acquisition Date: 11/03/98 Acquisition Time: 2158

Compound	Target Conc.	Sample Conc.	Label Rec.	Limits
N-Nitrosodimethylamine	0.00	0.00	130.1	25 - 175

ISOTOPE DILUTION
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
FORWARD SEARCH LIST

CLIENT SAMPLE NO.

981028244

Lab Name: PACIFIC ANALYTICAL, INC.
Matrix: WATER
Sample wt/vol: 1000 ml
Concentrated Extract Volume: 1000 ul
Injection Volume: 1 ul
GPC Cleanup: N/A
Fraction: Base/Neutral

Lab Sample ID: N5006
Lab File ID: 6K03A20
Date Sampled: 10/28/98
Date Extracted: 10/30/98
Date Analyzed: 11/03/98
Time Analyzed: 2224

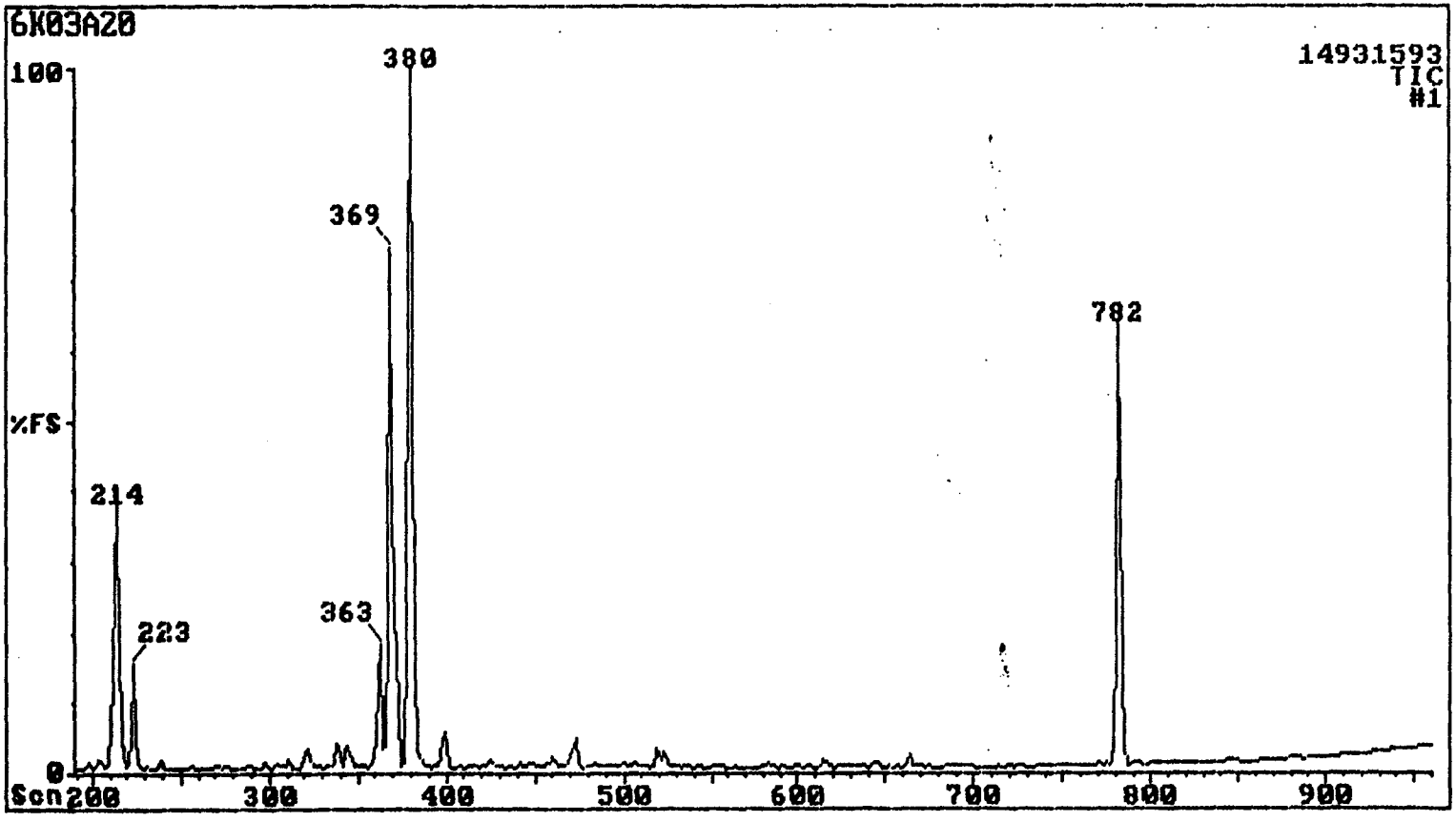
Compound	Concentration (ug/L)	Flags	Labelled Cpd. Recovery
N-Nitrosodimethylamine	0.03	U	152 %

U = Undetected J = Estimated Concentration B = Found in Blank
D = Dilution Results E = Result Exceeds Calibration Curve

MDL = 0.005 ug/L

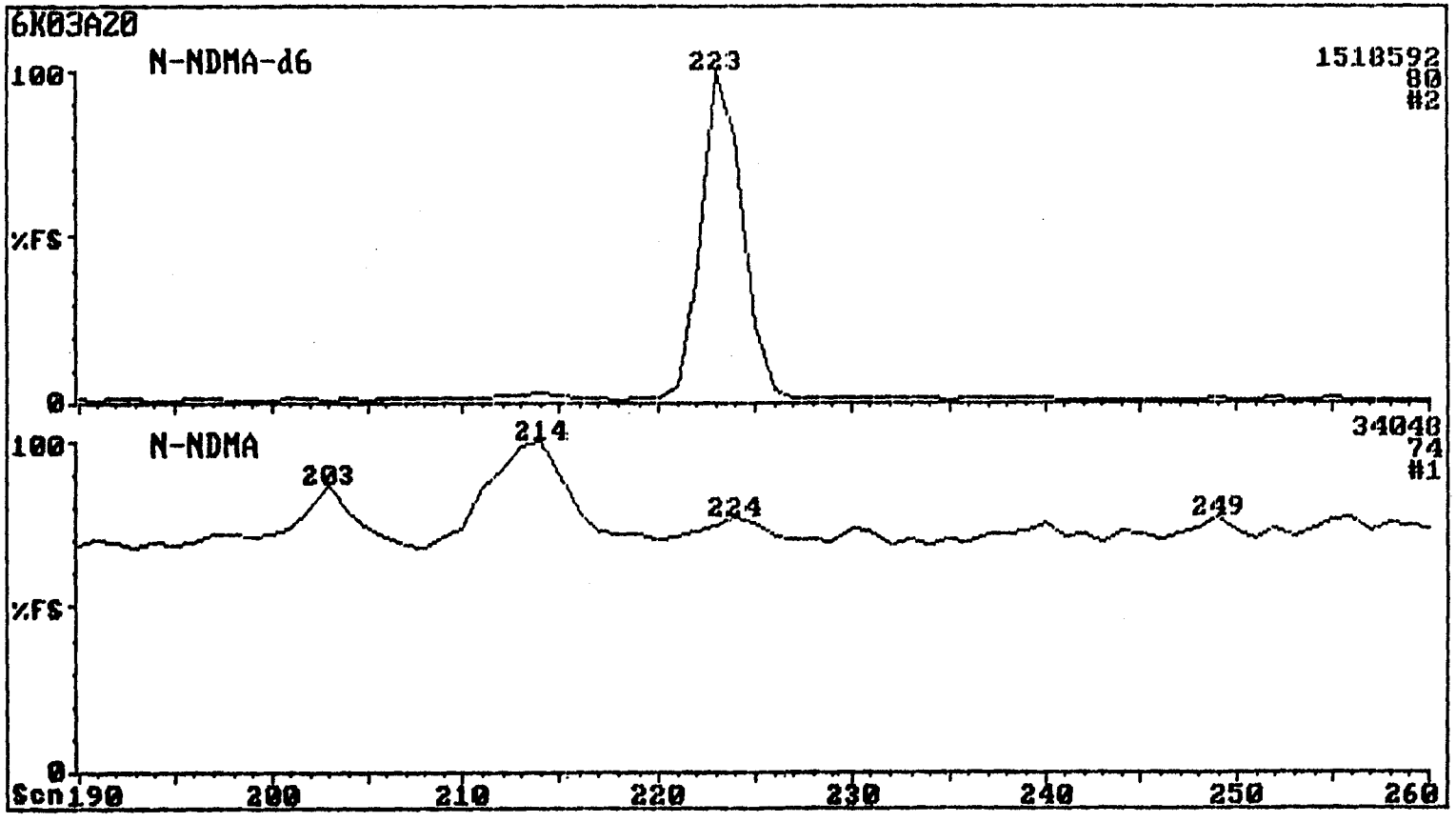
PQL = 0.03 ug/L

Sample No.: 981028244 Analyzed: 11/03/98 2224
Lab File ID: 6K03A20 Instrument ID: VG06



000032

Sample No.: 981028244 Analyzed: 11/03/98 2224
Lab File ID: 6K03A20 Instrument ID: VG06



000033

Sample: 981028244 N5006 Analyzed: 11/03/98 2224
Lab File: 6K03A20 Instrument ID: 06

Interim Report LAB-BASE FIND 11/04/98 0837

Raw Datafile : 6K03A20 Quan DB : 6K03A20
Find DB : NNDMA Scan DB : NONE

No.	Spectrum MAT	Spectrum FOR	Spectrum REV	Scan Diff	Peak Area	Flgs	Scan Found	Pred	QM	Compound Name
1	100	93	100	0	26480698	?v	782	782	190	2,2'-Difluorobiphenyl
2	100	95	99	0	3680316	b?	223	223	80	N-Nitrosodimethylamine-d6
3	71	63	86	6	488	!!	233	227	74	N-Nitrosodimethylamine
	65	64	87	8	442	!!	235			

Quantitation Results

EPA Name: 981028244 Lab ID: N5006 Lab File: 6K03A2(

Instr: 06 ICAL: 6K03 Acquisition Date: 11/03/98 Acquisition Time: 2224

Compound	Target Conc.	Sample Conc.	Label Rec.	Limits
N-Nitrosodimethylamine	0.00	0.00	151.5	25 - 175

ISOTOPE DILUTION
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA
LABELED COMPOUNDS

Lab Name: PACIFIC ANALYTICAL Instr. ID: VG06

Calibration Date: 11/03/98

LAB FILE IDs:

RF 0.02 = 6K03A06
RF 0.05 = 6K03A07
RF 0.10 = 6K03A08
RF 0.50 = 6K03A09
RF 1.00 = 6K03A10

COMPOUND	RF 0.02	RF 0.05	RF 0.10	RF 0.50	RF 1.00	RF MEAN	% RSD
2 N-Nitrosodimethylamine-	0.079	0.091	0.093	0.093	0.103	0.092	9.0

Internal Standard = 1 ug/mL
Pollutant Compounds = 0.02, 0.05, 0.10, 0.50, 1.00 ug/mL

ISOTOPE DILUTION
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA
COMPOUNDS HAVING A LABELED REFERENCE

Lab Name: PACIFIC ANALYTICAL Instr. ID: VG06

Calibration Date: 11/03/98

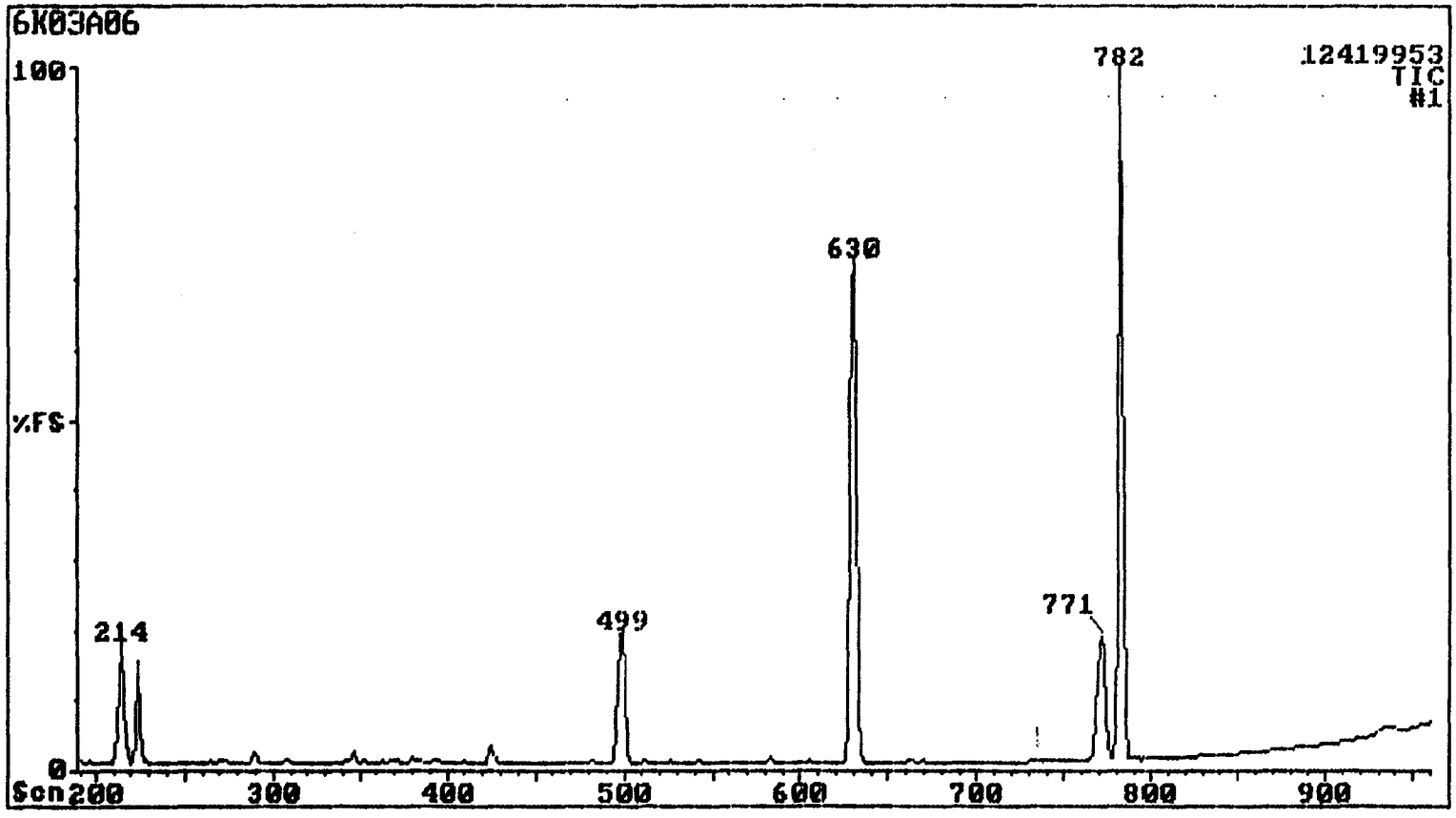
LAB FILE IDs:

RF 0.02 = 6K03A06
RF 0.05 = 6K03A07
RF 0.10 = 6K03A08
RF 0.50 = 6K03A09
RF 1.00 = 6K03A10

COMPOUND	RR 0.02	RR 0.05	RR 0.10	RR 0.50	RR 1.00	SLOPE	INTCP
3 N-Nitrosodimethylamine	0.019	0.047	0.091	0.476	0.967	1.033	0.003

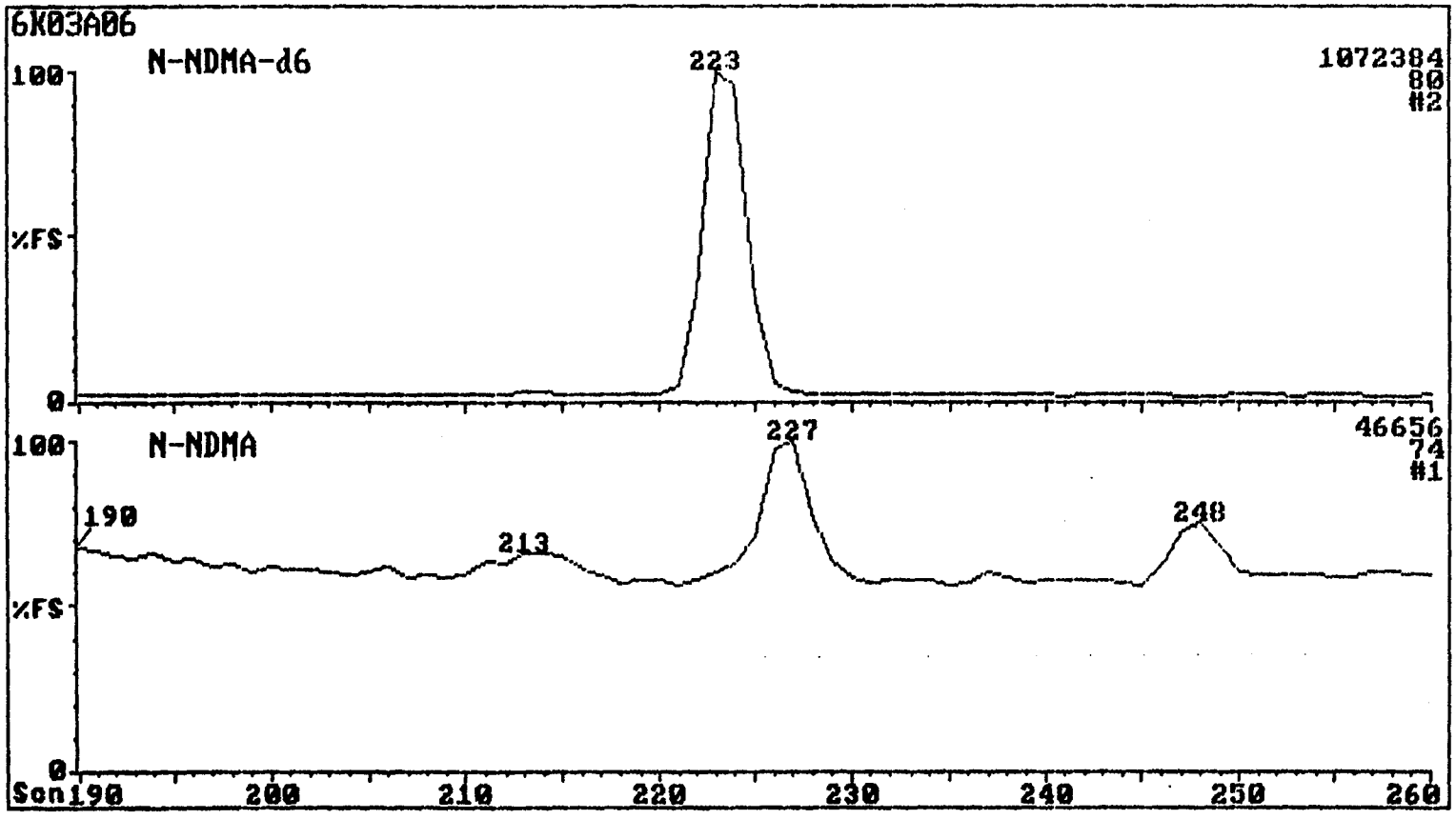
Internal Standard = 1 ug/mL
Pollutant Compounds = 0.02, 0.05, 0.10, 0.50, 1.00 ug/mL

Sample No.: NNDMA 0.02 Analyzed: 11/03/98 1614
Lab File ID: 6K03A06 Instrument ID: VG06



000038

Sample No.: NNDMA 0.02 Analyzed: 11/03/98 1614
Lab File ID: 6K03A06 Instrument ID: VG06



Sample: NNDMA 0.02 NSTD0.02 Analyzed: 11/03/98 1614
Lab File: 6K03A06 Instrument ID: 06

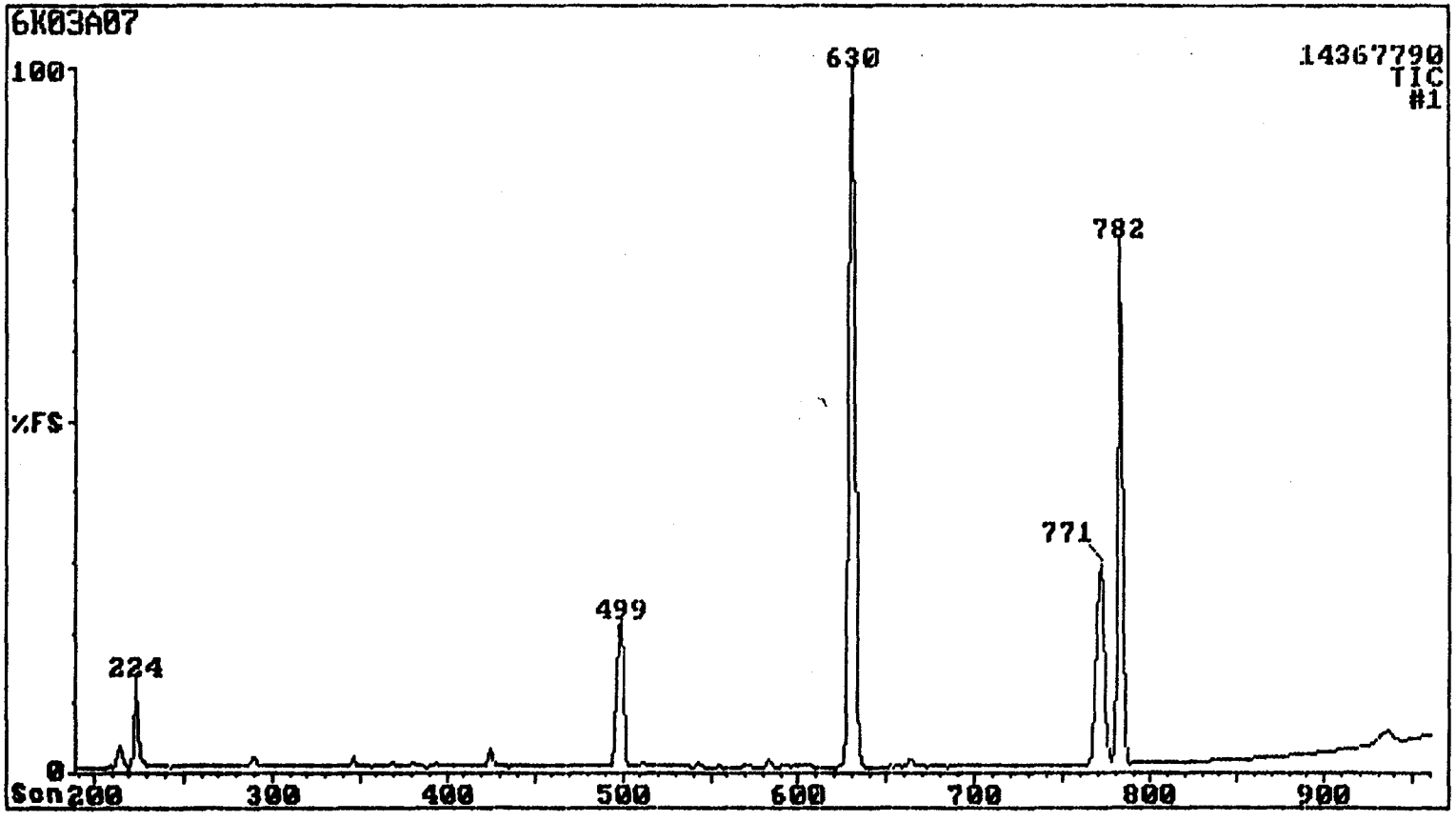
Interim Report LAB-BASE FIND 11/04/98 0821

Raw Datafile : 6K03A06 Quan DB : 6K03A06
Find DB : NNDMA Scan DB : NONE

No.	Spectrum MAT	Spectrum FOR	Spectrum REV	Scan Diff	Peak Area	Flgs	Scan Found	Pred	QM	Compound Name
1	100	94	100	0	34720464	bv	782	782	190	2,2'-Difluorobiphenyl
2	100	91	99	0	2758994	b?	223	223	80	N-Nitrosodimethylamine-d6
3	98	68	88	0	53052	!!	227	227	74	N-Nitrosodimethylamine

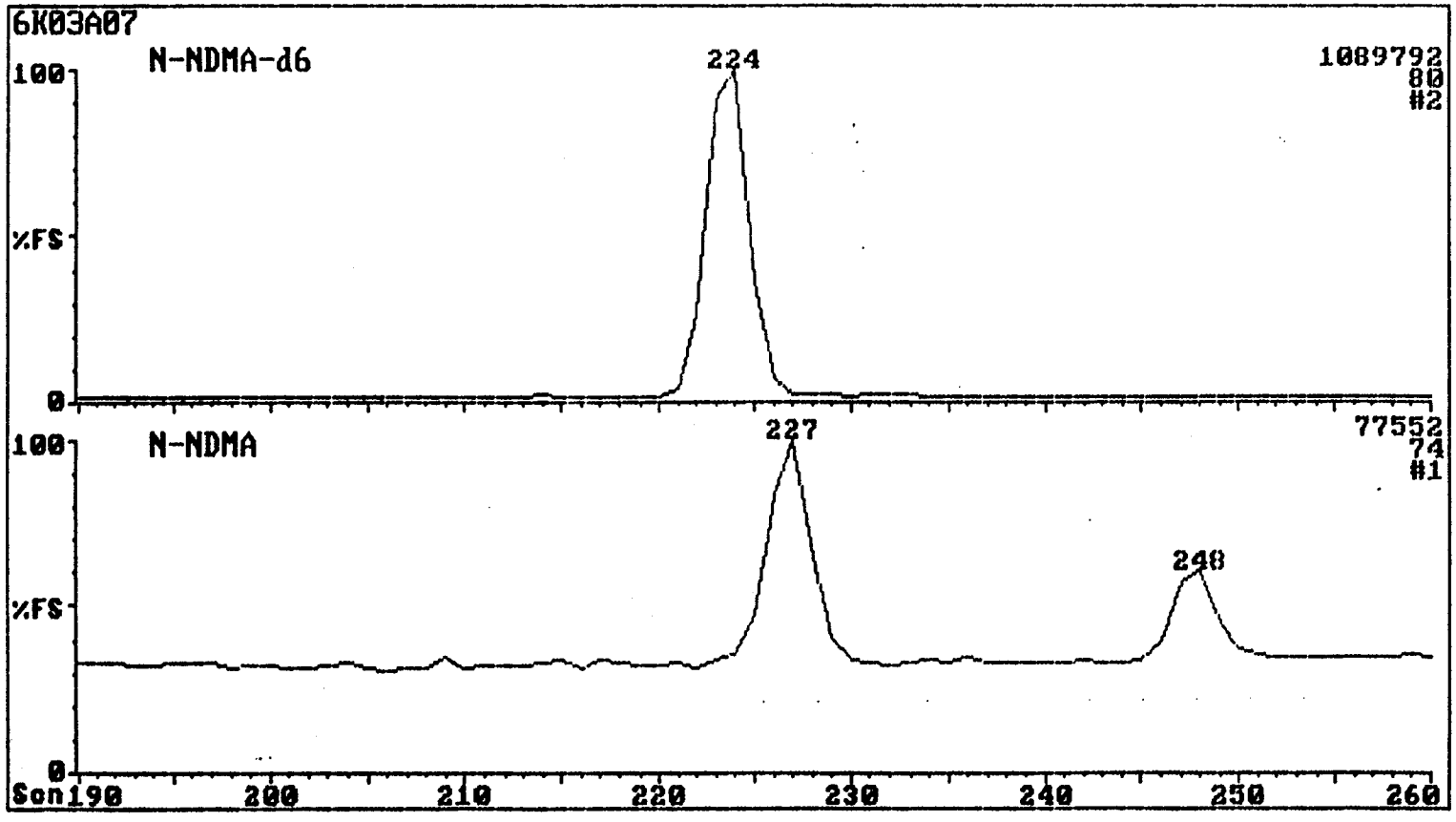
Sample No.: NNDMA 0.05
Lab File ID: 6K03A07

Analyzed: 11/03/98 1640
Instrument ID: VG06



Sample No.: NNDMA 0.05
Lab File ID: 6K03A07

Analyzed: 11/03/98 1640
Instrument ID: VG06



Sample: NNDMA 0.05 NSTD0.05 Analyzed: 11/03/98 1640
Lab File: 6K03A07 Instrument ID: 06

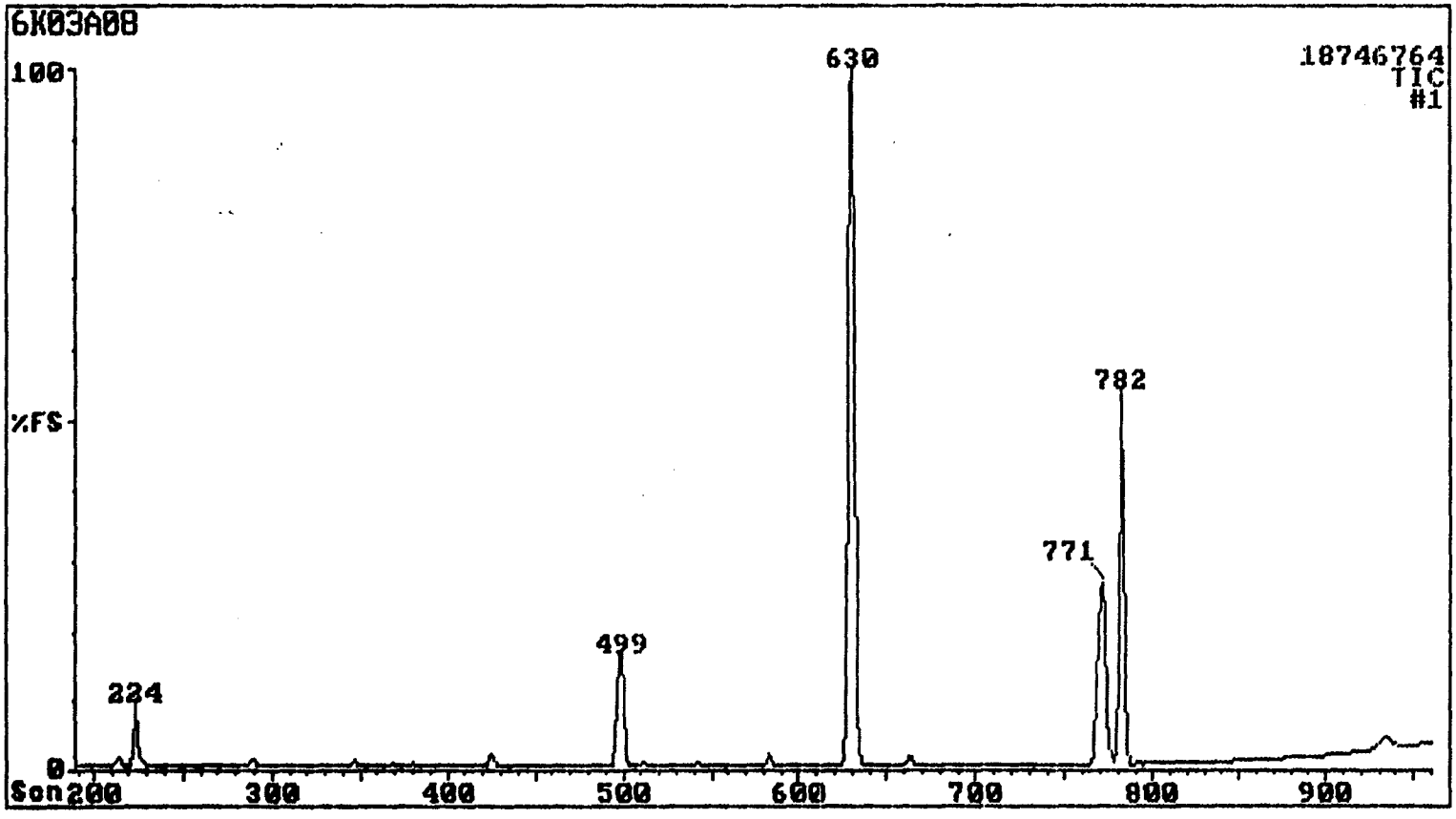
Interim Report LAB-BASE FIND 11/04/98 0822

Raw Datafile : 6K03A07 Quan DB : 6K03A07
Find DB : NNDMA Scan DB : NONE

No.	Spectrum MAT	FOR	REV	Scan Diff	Peak Area	Flgs	Scan Found	Pred	QM	Compound Name
1	100	94	100	0	30412232	bv	782	782	190	2,2'-Difluorobiphenyl
2	100	90	97	1	2775588	v?	224	223	80	N-Nitrosodimethylamine-d6
3	100	76	92	-1	129676	??	227	228	74	N-Nitrosodimethylamine
	72	65	85	6	924	!!	234			

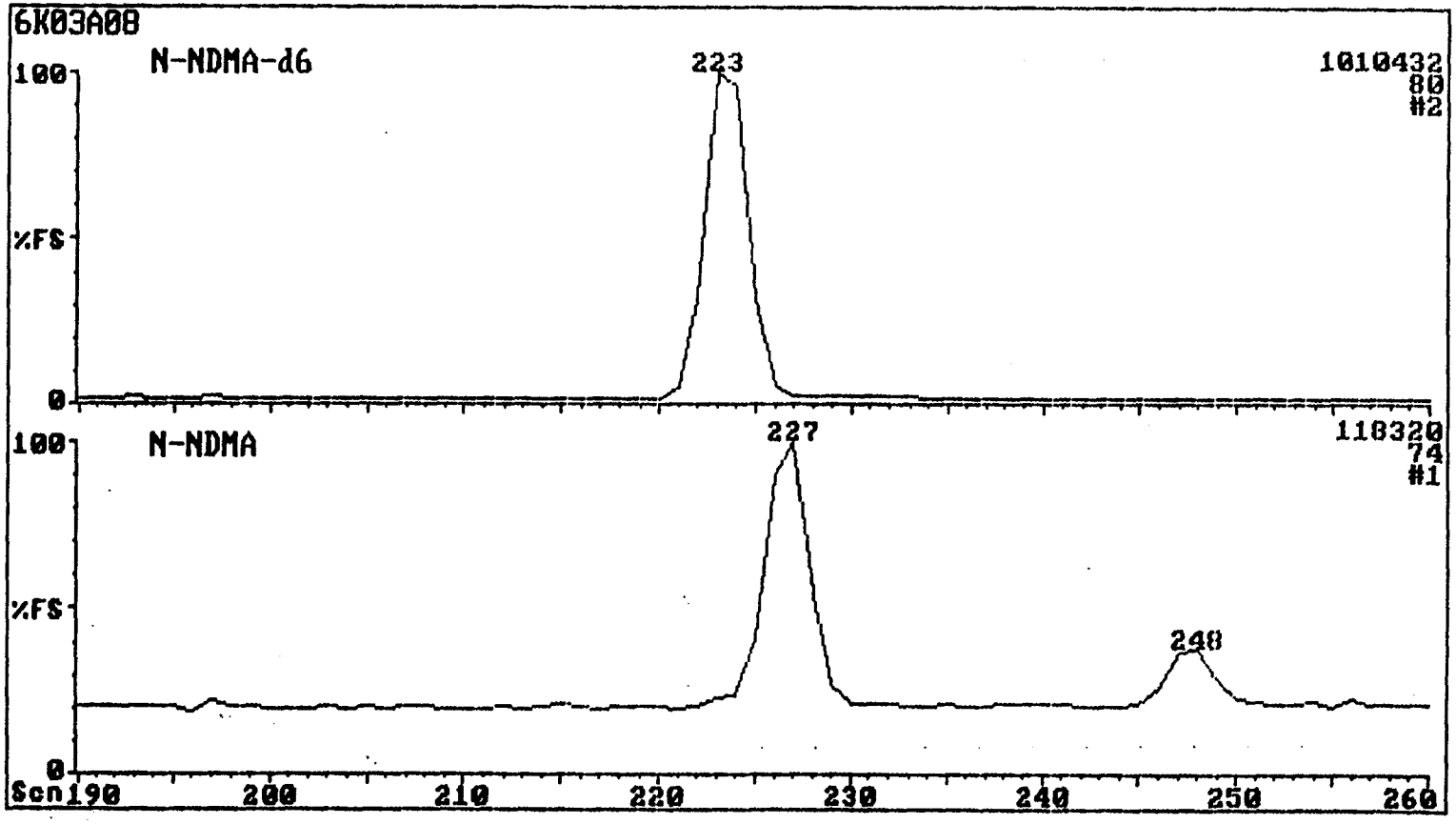
Sample No.: NNDMA 0.10
Lab File ID: 6K03A08

Analyzed: 11/03/98 1707
Instrument ID: VG06



Sample No.: NNDMA 0.10
Lab File ID: 6K03A08

Analyzed: 11/03/98 1707
Instrument ID: VG06



Sample: NNDMA 0.10 NSTDO.10 Analyzed: 11/03/98 1707
Lab File: 6K03A08 Instrument ID: 06

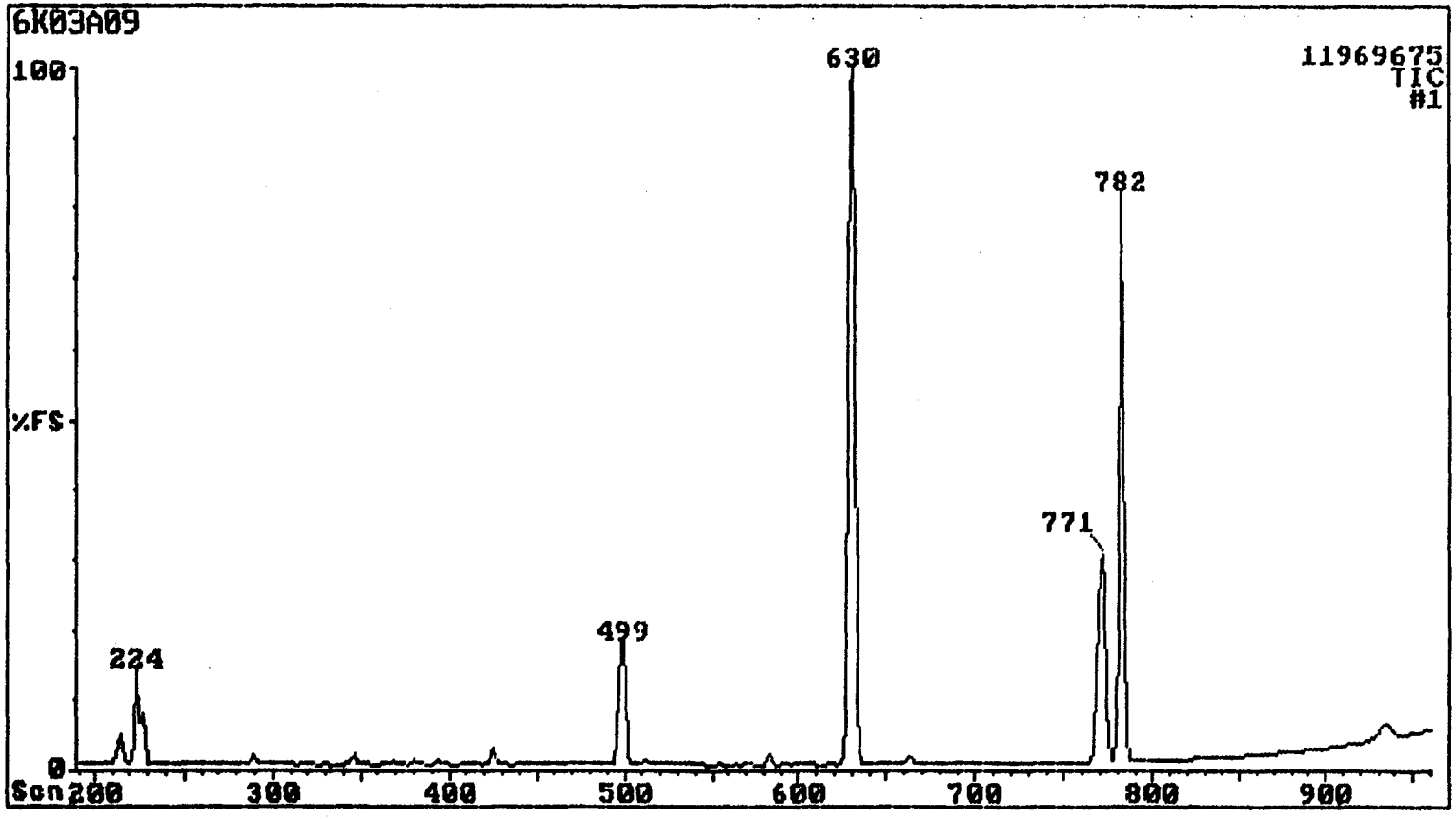
Interim Report LAB-BASE FIND 11/04/98 0823

Raw Datafile : 6K03A08 Quan DB : 6K03A08
Find DB : NNDMA Scan DB : NONE

No.	Spectrum MAT	Spectrum FOR	Spectrum REV	Scan Diff	Peak Area	Flgs	Scan Found	Pred	QM	Compound Name
1	100	94	100	0	28195457	bv	782	782	190	2,2'-Difluorobiphenyl
2	100	93	99	0	2608858	b?	223	223	80	N-Nitrosodimethylamine-d6
3	100	83	95	0	238636	??	227	227	74	N-Nitrosodimethylamine
	76	63	88	4	990	!!	231			

Sample No.: NNDMA 0.50
Lab File ID: 6K03A09

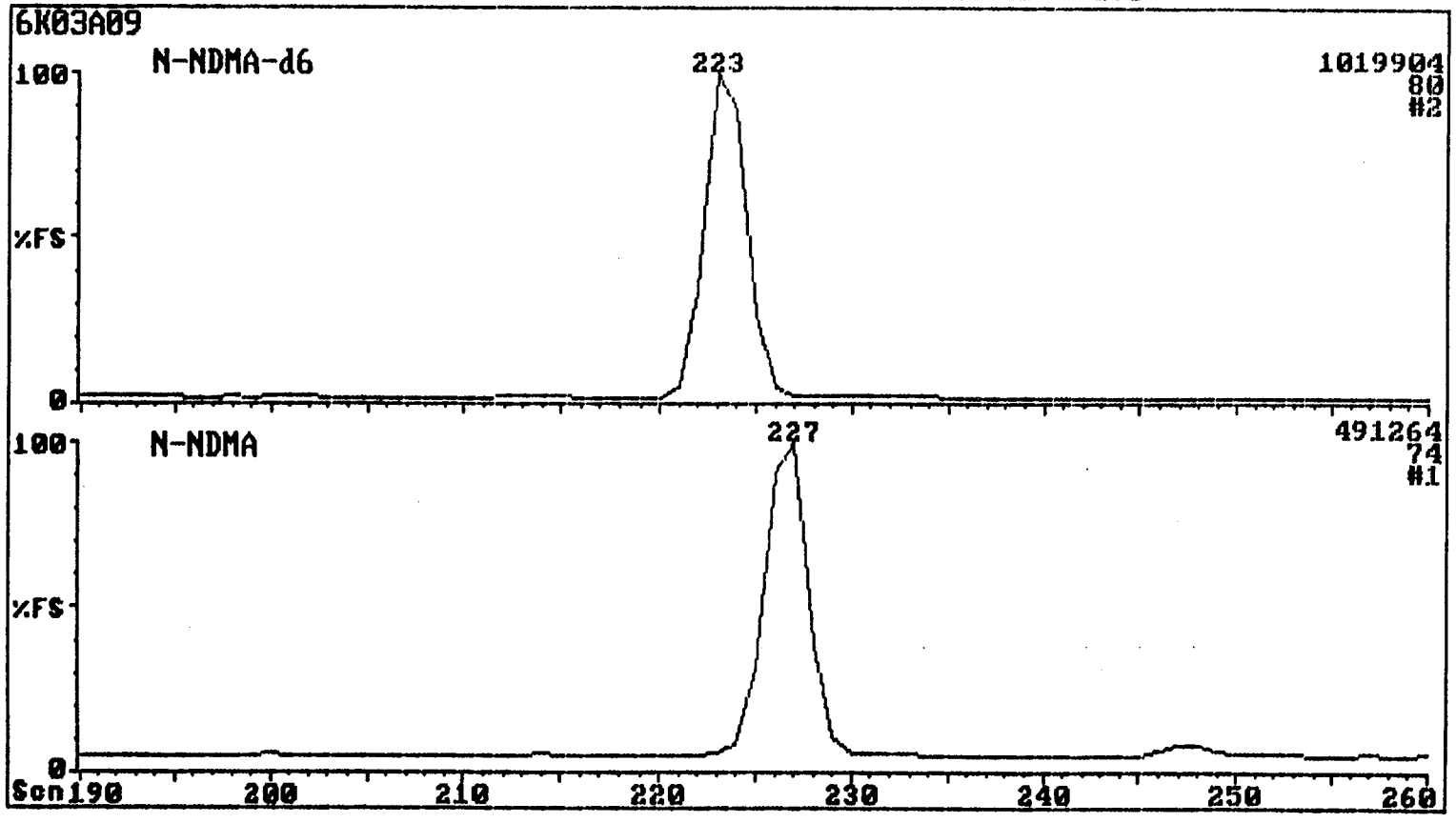
Analyzed: 11/03/98 1734
Instrument ID: VG06



000047

Sample No.: NNDMA 0.50
Lab File ID: 6K03A09

Analyzed: 11/03/98 1734
Instrument ID: VG06



000048

Sample: NNDMA 0.50 NSTD0.50 Analyzed: 11/03/98 1734
Lab File: 6K03A09 Instrument ID: 06

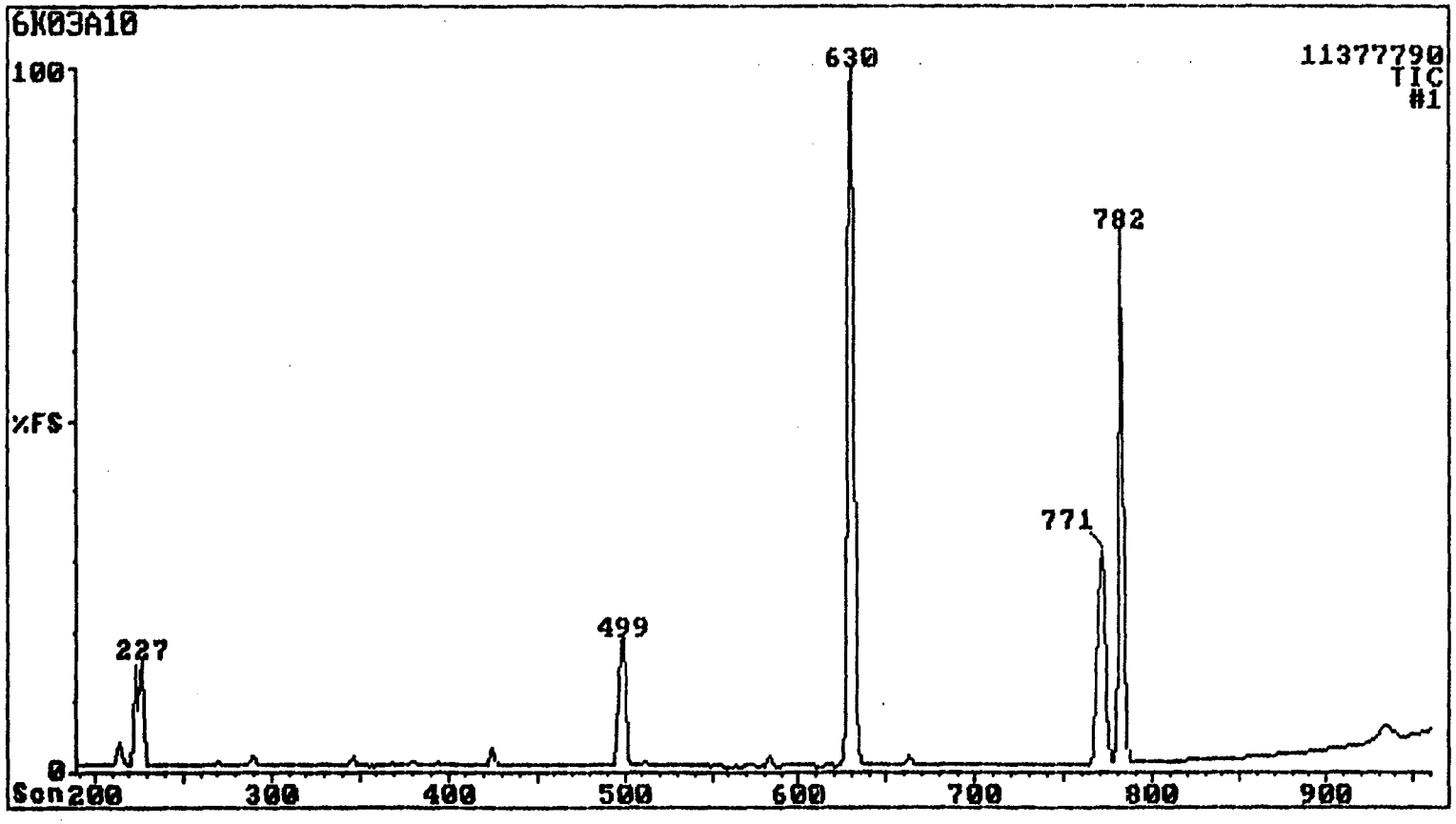
Interim Report LAB-BASE FIND 11/04/98 0824

Raw Datafile : 6K03A09 Quan DB : 6K03A09
Find DB : NNDMA Scan DB : NONE

No.	Spectrum MAT	Spectrum FOR	Spectrum REV	Scan Diff	Peak Area	Flgs	Scan Found	Pred	QM	Compound Name
1	100	94	100	0	27312212	bv	782	782	190	2,2'-Difluorobiphenyl
2	100	93	99	0	2530028	v?	223	223	80	N-Nitrosodimethylamine-d6
3	100	93	97	0	1204208	??	227	227	74	N-Nitrosodimethylamine

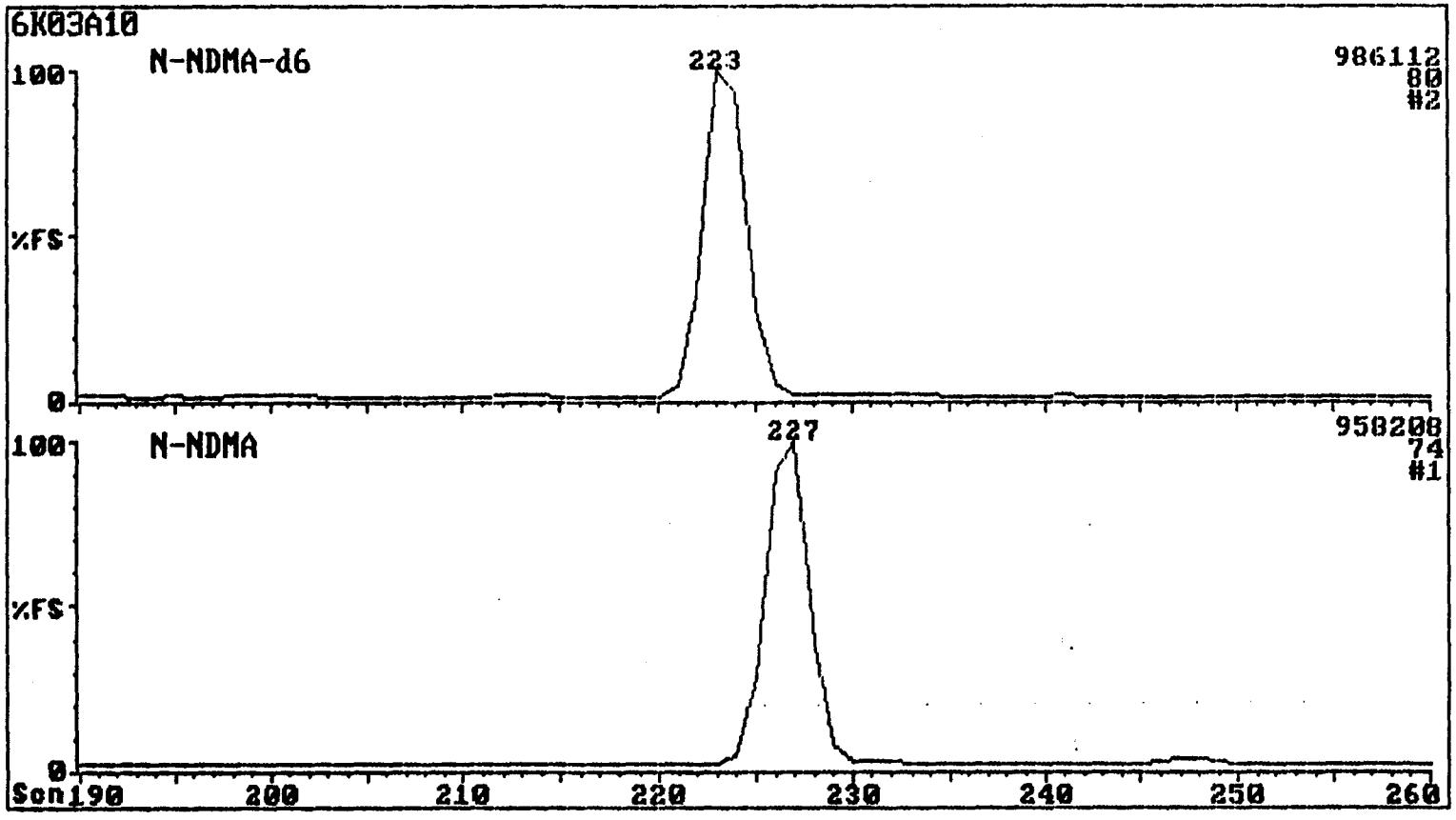
Sample No.: NNDMA 1.00
Lab File ID: 6K03A10

Analyzed: 11/03/98 1800
Instrument ID: VG06



000050

Sample No.: NNDMA 1.00 Analyzed: 11/03/98 1800
Lab File ID: 6K03A10 Instrument ID: VG06



Sample: NNDMA 1.00 NSTD1.00 Analyzed: 11/03/98 1800
Lab File: 6K03A10 Instrument ID: 06

Interim Report LAB-BASE FIND 11/04/98 0824

Raw Datafile : 6K03A10 Quan DB : 6K03A10
Find DB : NNDMA Scan DB : NONE

No.	Spectrum MAT	Spectrum FOR	Spectrum REV	Scan Diff	Peak Area	Flgs	Scan Found	Pred	QM	Compound Name
1	100	94	100	0	24387599	bb	782	782	190	2,2'-Difluorobiphenyl
2	100	93	99	0	2503996	v?	223	223	80	N-Nitrosodimethylamine-d6
3	100	95	97	0	2421116	??	227	227	74	N-Nitrosodimethylamine
	70	66	88	-6	492	!!	221			

ISOTOPE DILUTION
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
FORWARD SEARCH LIST

CLIENT SAMPLE NO.

LAB BLANK

Lab Name: PACIFIC ANALYTICAL, INC.
Matrix: WATER
Sample wt/vol: 1000 ml
Concentrated Extract Volume: 1000 ul
Injection Volume: 1 ul
GPC Cleanup: N/A
Fraction: Base/Neutral

Lab Sample ID: 8861
Lab File ID: 6K03A13
Date Sampled:
Date Extracted: 10/30/98
Date Analyzed: 11/03/98
Time Analyzed: 1920

Compound	Concentration (ug/L)	Flags	Labelled Cpd. Recovery
N-Nitrosodimethylamine	0.03	U	120 %

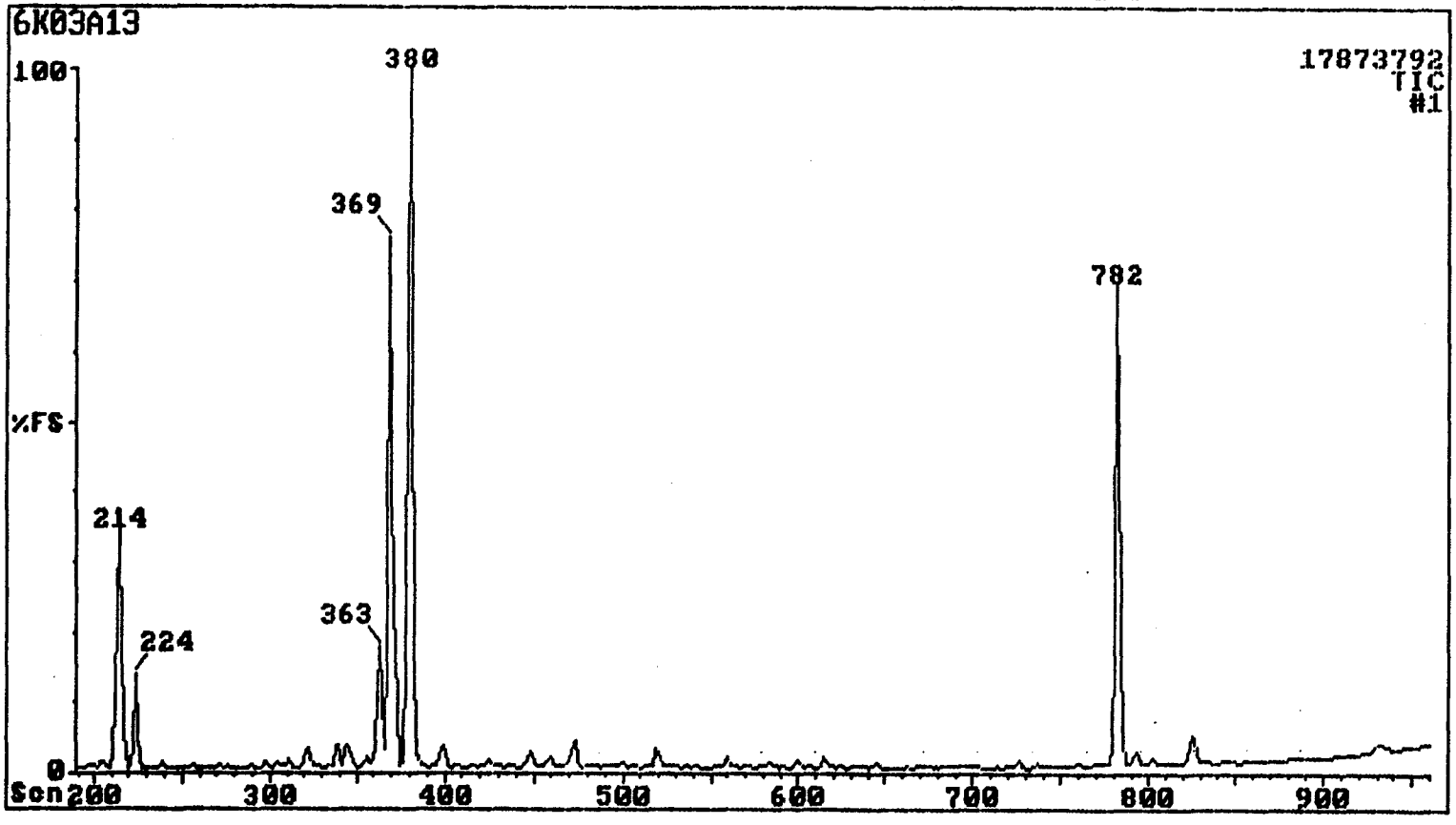
U = Undetected J = Estimated Concentration B = Found in Blank
D = Dilution Results E = Result Exceeds Calibration Curve

MDL = 0.005 ug/L

PQL = 0.03 ug/L

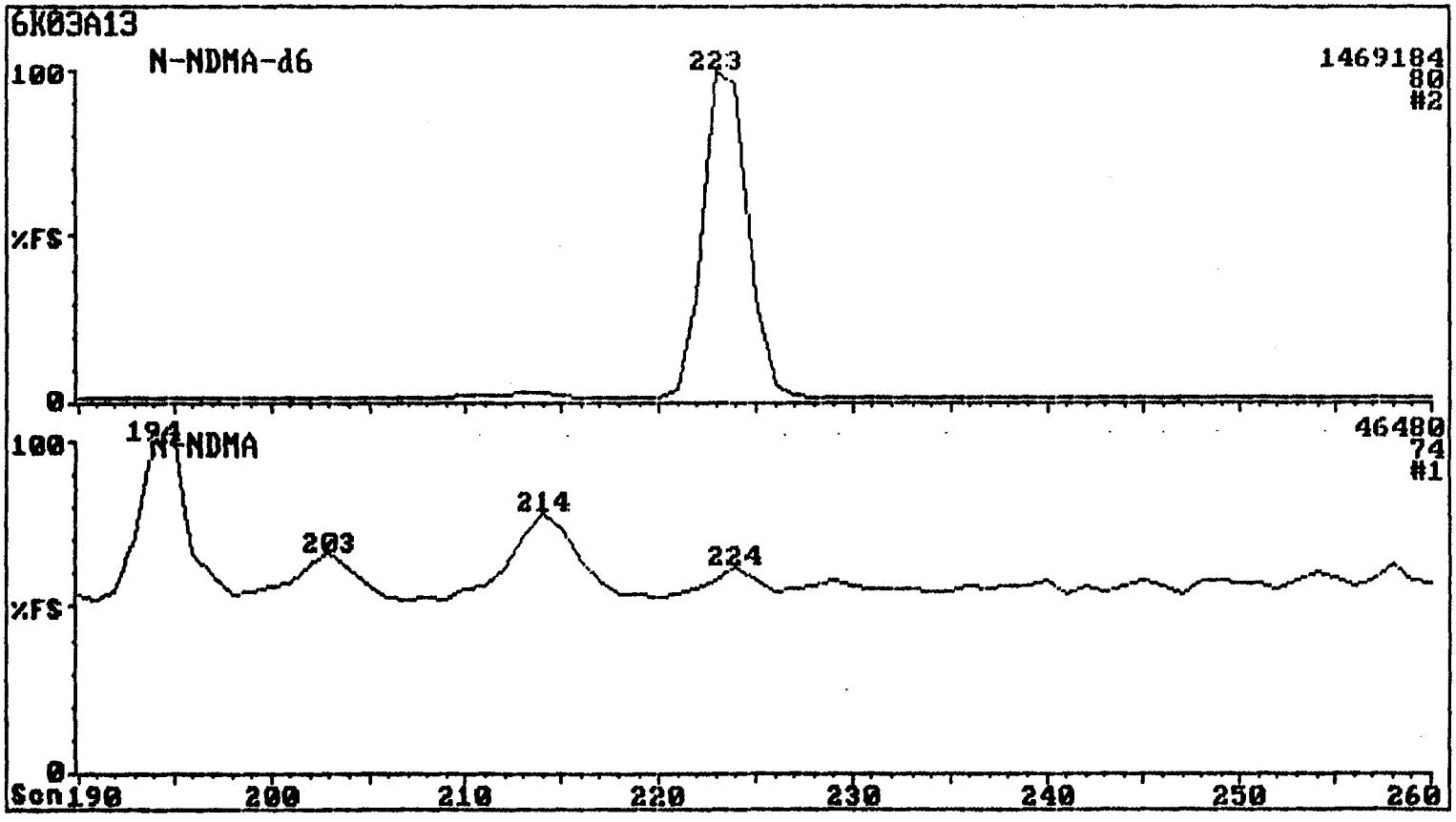
Sample No.: LAB BLANK
Lab File ID: 6K03A13

Analyzed: 11/03/98 1920
Instrument ID: VG06



Sample No.: LAB BLANK
Lab File ID: 6K03A13

Analyzed: 11/03/98 1920
Instrument ID: VG06



000055

Sample: LAB BLANK 8861 Analyzed: 11/03/98 1920
Lab File: 6K03A13 Instrument ID: 06

Interim Report LAB-BASE FIND 11/04/98 0830

Raw Datafile : 6K03A13 Quan DB : 6K03A13
Find DB : NNDMA Scan DB : NONE

No.	Spectrum MAT	Spectrum FOR	Spectrum REV	Scan Diff	Peak Area	Flgs	Scan Found	Pred	QM	Compound Name
1	100	93	100	0	34723612	?v	782	782	190	2,2'-Difluorobiphenyl
2	100	94	100	0	3817552	b?	223	223	80	N-Nitrosodimethylamine-d6
3	83	62	82	2	3290	!!	229	227	74	N-Nitrosodimethylamine
	61	64	85	9	426	!!	236			

Quantitation Results

EPA Name: LAB BLANK Lab ID: 8861 Lab File: 6K03A1:

Instr: 06 ICAL: 6K03 Acquisition Date: 11/03/98 Acquisition Time: 1920

Compound	Target Conc.	Sample Conc.	Label Rec.	Limits
N-Nitrosodimethylamine	0.00	0.00	119.9	25 - 175

ISOTOPE DILUTION
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
FORWARD SEARCH LIST

CLIENT SAMPLE NO.

00.10

Lab Name: PACIFIC ANALYTICAL, INC.
Matrix: WATER
Sample wt/vol: 1000 ml
Concentrated Extract Volume: 1000 ul
Injection Volume: 1 ul
GPC Cleanup: N/A
Fraction: Base/Neutral

Lab Sample ID: P&R C24
Lab File ID: 6K03A11
Date Sampled:
Date Extracted: 10/30/98
Date Analyzed: 11/03/98
Time Analyzed: 1827

Compound	Concentration (ug/L)	Flags	Labelled Cpd. Recovery
N-Nitrosodimethylamine	0.08		122 %

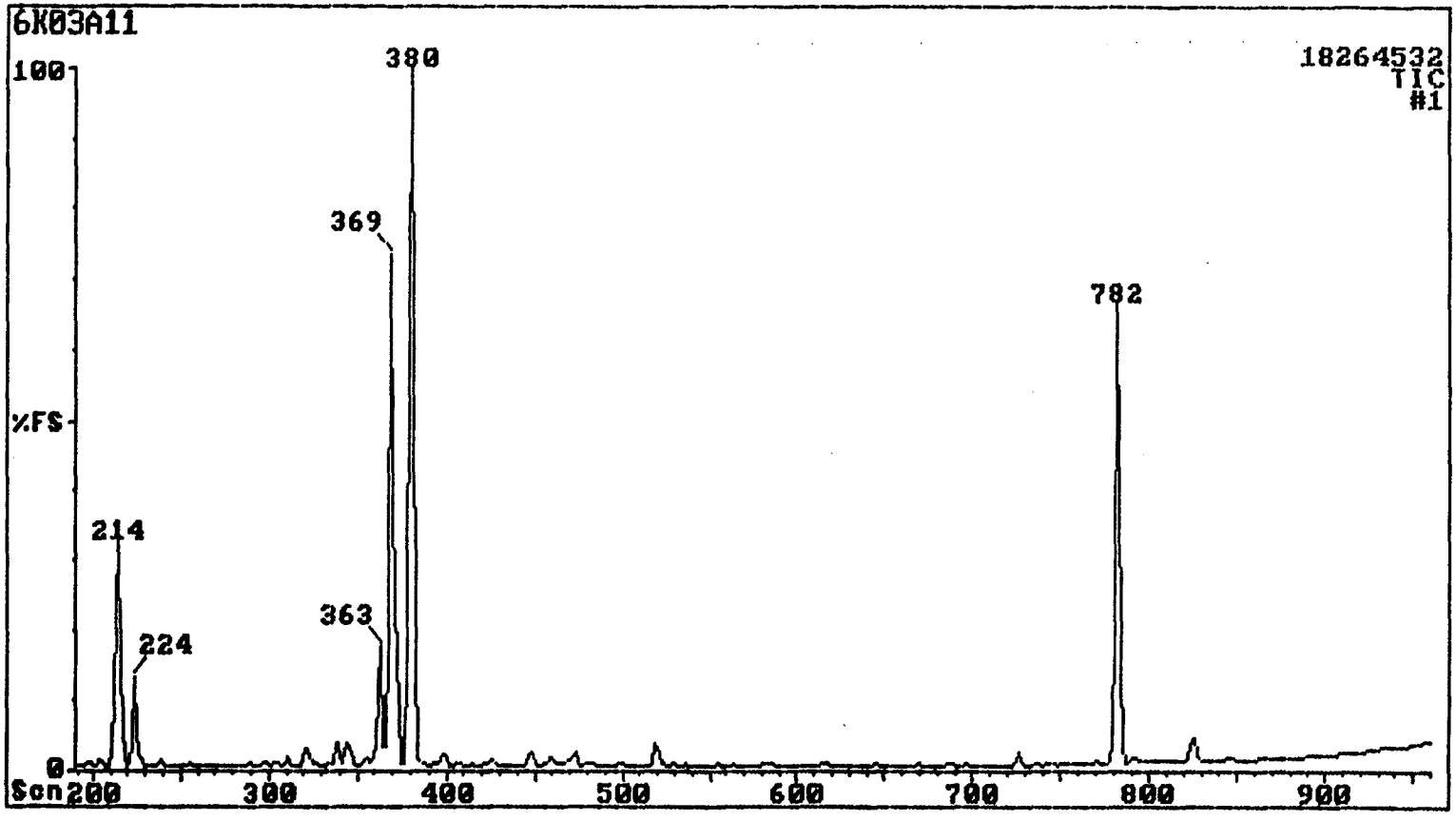
U = Undetected J = Estimated Concentration B = Found in Blank
D = Dilution Results E = Result Exceeds Calibration Curve

MDL = 0.005 ug/L

PQL = 0.03 ug/L

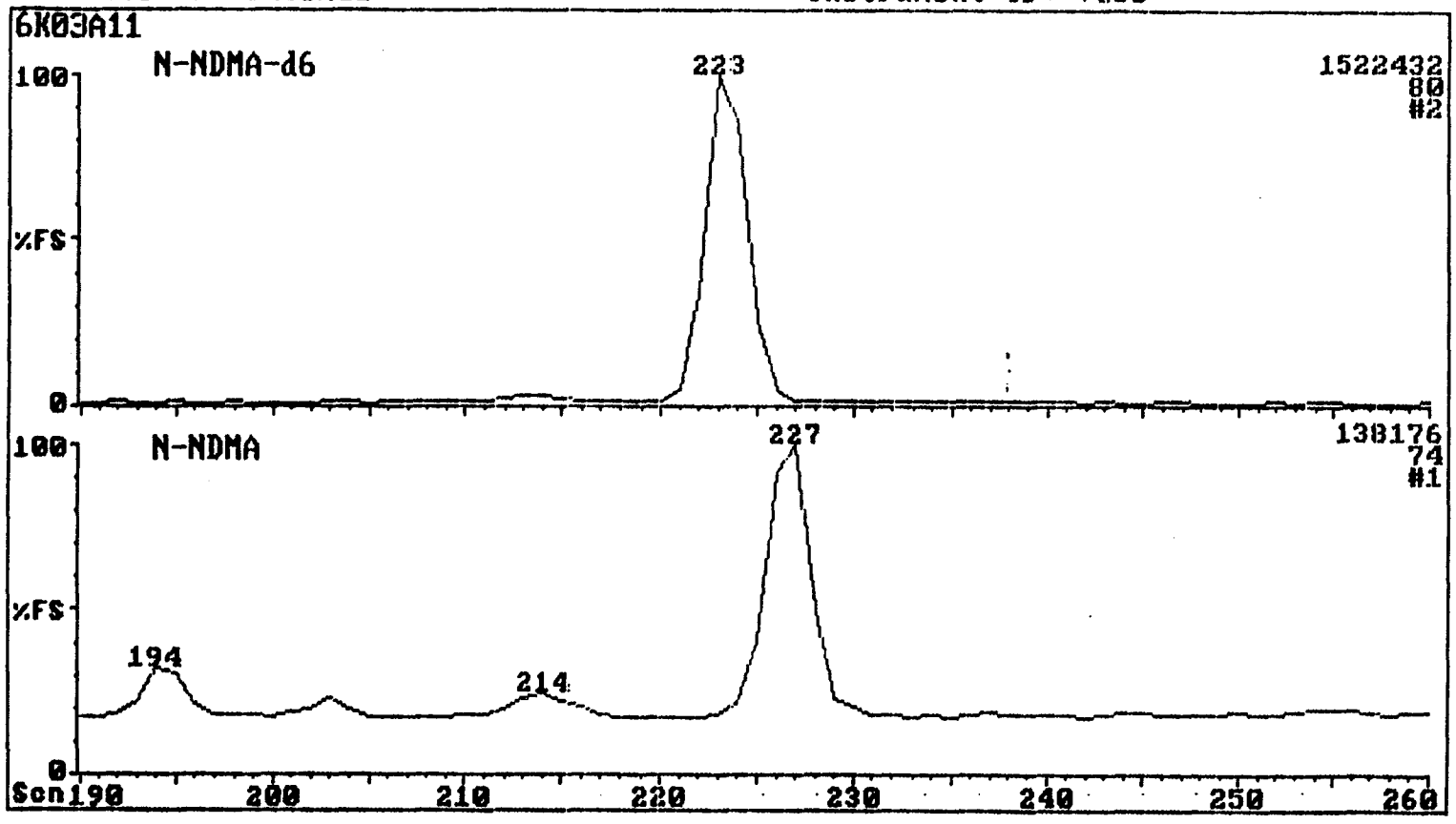
Sample No.: 00.10
Lab File ID: 6K03A11

Analyzed: 11/03/98 1827
Instrument ID: VG06



Sample No.: 00.10
Lab File ID: 6K03A11

Analyzed: 11/03/98 1827
Instrument ID: VG06



000060

Sample: 00.10 P&R C24 Analyzed: 11/03/98 1827
Lab File: 6K03A11 Instrument ID: 06

Interim Report LAB-BASE FIND 11/04/98 0829

Raw Datafile : 6K03A11 Quan DB : 6K03A11
Find DB : NNDMA Scan DB : NONE

No.	Spectrum MAT	Spectrum FOR	Spectrum REV	Scan Diff	Peak Area	Flgs	Scan Found	Pred	QM	Compound Name
1	100	93	100	0	33828079	?b	782	782	190	2,2'-Difluorobiphenyl
2	100	94	99	0	3780758	b?	223	223	80	N-Nitrosodimethylamine-d6
3	100	84	94	0	291140	??	227	227	74	N-Nitrosodimethylamine
	73	60	84	5	758	!!	232			

On-going Accuracy (P&R) Check

EPA Name: 00.10 Lab ID: P&R C24 Lab File: 6K03A1

Instr: 06 ICAL: 6K03 Acquisition Date: 11/03/98 Acquisition Time: 1827

Compound	Target Conc.	Rec.	Label Rec.	Limits
N-Nitrosodimethylamine	0.08	83.84	121.9	25 - 175

ISOTOPE DILUTION
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
FORWARD SEARCH LIST

CLIENT SAMPLE NO.

00.10

Lab Name: PACIFIC ANALYTICAL, INC.
Matrix: WATER
Sample wt/vol: 1000 ml
Concentrated Extract Volume: 1000 ul
Injection Volume: 1 ul
GPC Cleanup: N/A
Fraction: Base/Neutral

Lab Sample ID: P&R C24 DUP
Lab File ID: 6K03A12
Date Sampled:
Date Extracted: 10/30/98
Date Analyzed: 11/03/98
Time Analyzed: 1853

Compound	Concentration (ug/L)	Flags	Labelled Cpd. Recovery
N-Nitrosodimethylamine	0.09		124 %

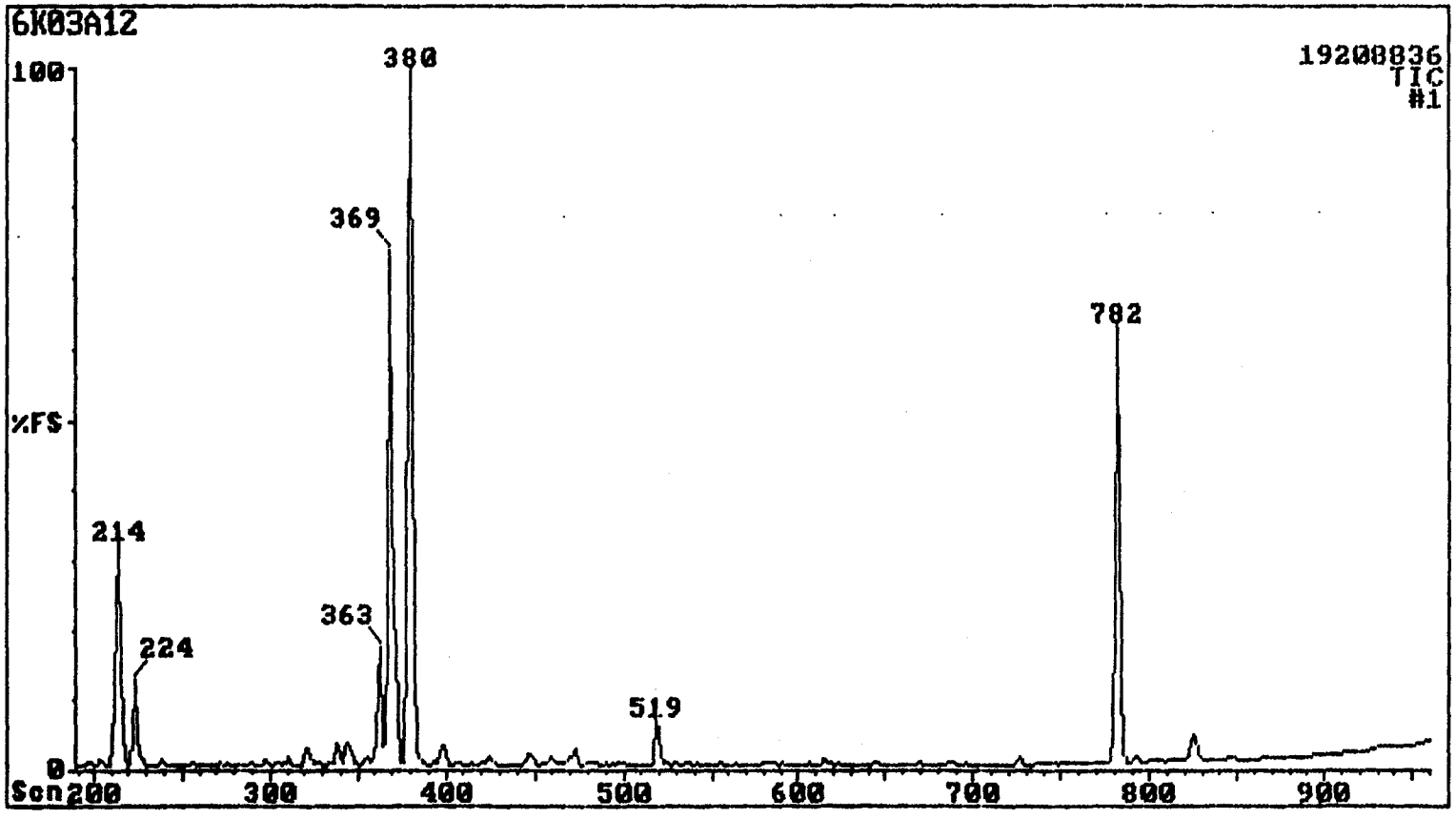
U = Undetected J = Estimated Concentration B = Found in Blank
D = Dilution Results E = Result Exceeds Calibration Curve

MDL = 0.005 ug/L

PQL = 0.03 ug/L

Sample No.: 00.10
Lab File ID: 6K03A12

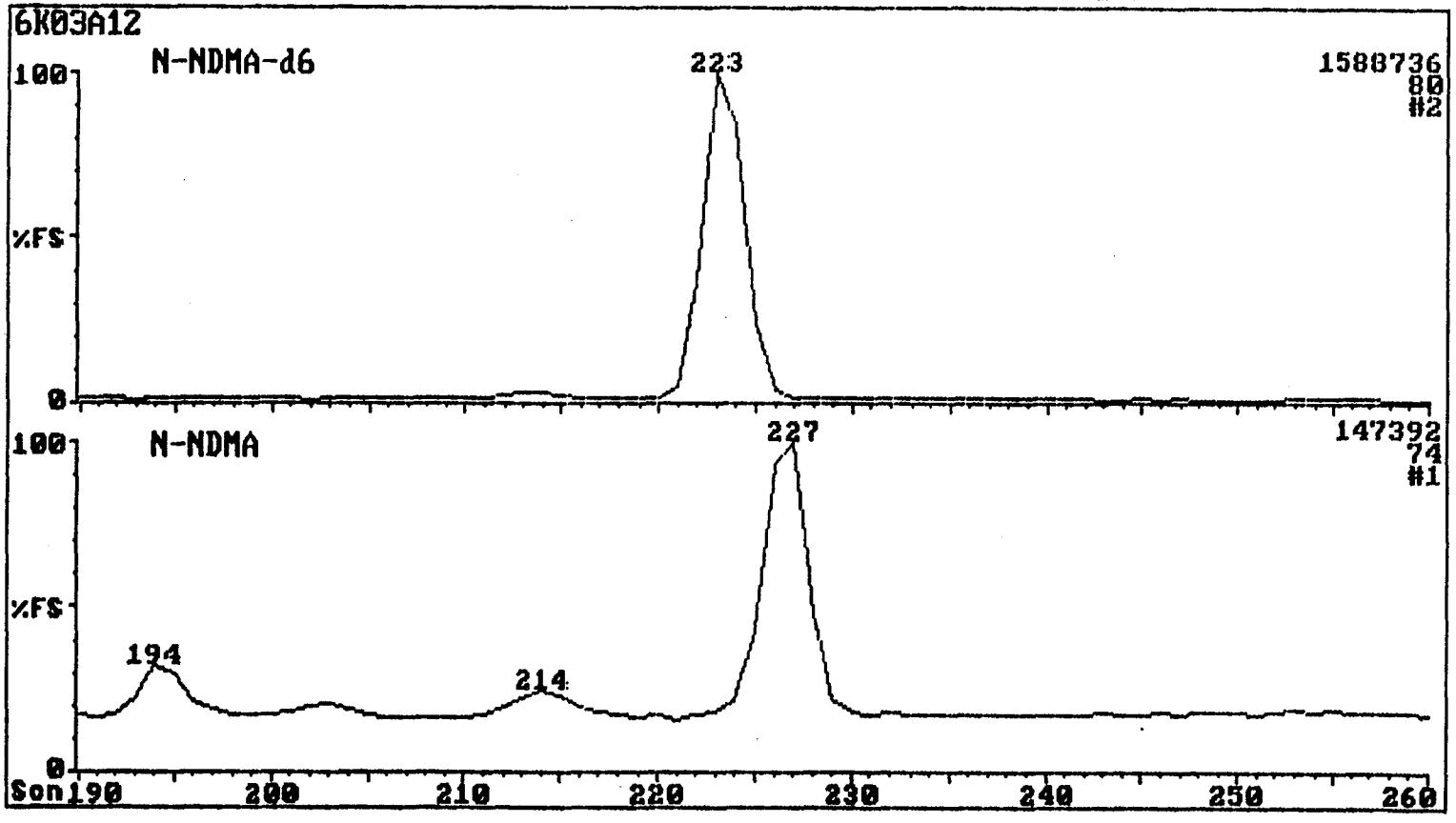
Analyzed: 11/03/98 1853
Instrument ID: VG06



000064

Sample No.: 00.10
Lab File ID: 6K03A12

Analyzed: 11/03/98 1853
Instrument ID: VG06



Sample: 00.10 P&R C24 DUP Analyzed: 11/03/98 1853
Lab File: 6K03A12 Instrument ID: 06

Interim Report LAB-BASE FIND 11/04/98 0830

Raw Datafile : 6K03A12 Quan DB : 6K03A12
Find DB : NNDMA Scan DB : NONE

No.	Spectrum MAT	Spectrum FOR	Spectrum REV	Scan Diff	Peak Area	Flgs	Scan Found	Pred	QM	Compound Name
1	100	93	100	0	34484759	?v	782	782	190	2,2'-Difluorobiphenyl
2	100	94	99	0	3918476	b?	223	223	80	N-Nitrosodimethylamine-d6
3	100	84	94	0	322704	??	227	227	74	N-Nitrosodimethylamine

On-going Accuracy (P&R) Check

EPA Name: 00.10 Lab ID: P&R C24 DUP Lab File: 6K03A1

Instr: 06 ICAL: 6K03 Acquisition Date: 11/03/98 Acquisition Time: 1853

Compound	Target Conc.	Rec.	Label Rec.	Limits
N-Nitrosodimethylamine	0.09	89.82	123.9	25 - 175

PACIFIC ANALYTICAL, INC.

*** SAMPLE RECEIPT LOG ***

PA JOB NUMBER: N50
(Sample Tracking Information)

JOB ____ TASK ____-____
(Invoice Information Only)

CUSTOMER: MONTGOMERY WATSON

RECEIVED BY: JLT JLT

REVISION DATE: 11/02/96

REVISION TIME: 14:43

CHAIN OF CUSTODY RECEIVED: Y

SHIPPER: FED EX
SHIPPER CODE: 4147826310 35

LAB SAMPLE NUMBER OF FIRST SAMPLE TO BE LOGGED IN: N5001

LAB SAMPLE NUMBER	CUSTOMER SAMPLE ID	DATE SAMPLED	DATE OF RECEIPT	DESCRIPTION (soil, water, tissue, etc.)	CONDITION
N5001	MW-984075	10/26/98	10/28/98	WATER, 1 x 1 L BOTTLE, 2 WK TAT	OK
N5002	MW-984-008	10/27/98	10/29/98	WATER, 1 x 1 L BOTTLE	OK
N5003	MW-984-042	10/27/98	10/29/98	WATER, 1 x 1 L BOTTLE	OK
N5004	MW-984-015	10/28/98	10/30/98	WATER, 1 x 1 L BOTTLE	OK
N5005	MW-984-031	10/28/98	10/30/98	WATER, 1 x 1 L BOTTLE	OK
N5006	MW-984-039	10/28/98	10/30/98	WATER, 1 x 1 L BOTTLE	OK
		/ /	/ /		
		/ /	/ /		
		/ /	/ /		
		/ /	/ /		
		/ /	/ /		
		/ /	/ /		
		/ /	/ /		
		/ /	/ /		
		/ /	/ /		
		/ /	/ /		
		/ /	/ /		
		/ /	/ /		
		/ /	/ /		
		/ /	/ /		

COMMENTS: 3 MEDIUM COOLERS

SAMPLE LOG-IN SHEET -TEMPORARY

N50

LAB NAME: PACIFIC ANALYTICAL, INC.

Received By (Print Name): José L. Toledo Log-in Date: 10/28/98

Received By (Signature): José L. Toledo

Client Montgomery Watson Labs

# of coolers: 1 medium Cooler

REMARKS:

1. Custody Seal(s) Present/~~Absent~~
   Intact/Broken
2. Custody Seal Nos.: _____
3. Chain of Custody Records: Present/Absent
4. Traffic Reports or Packing List Present/Absent
5. Airbill Airbill/~~Sticker~~ Present/Absent
6. Airbill No.: 4147 8263 1035
   4147 8263 1079
7. Sample Tags ~~Present/Absent~~
   Sample Tag Numbers Listed/~~Not Listed~~ on Chain of Custody
8. Sample Condition Cell ~~Intact~~/Broken/Leaking
9. Does informatin on Custody Records, Traffic Reports and sample tags agree? Yes/No
10. Date Received at Lab: 10/28/98, 10/28/98
11. Time Received at Lab: 10:30 Am, 1615

LAB ID	SAMPLE NO	REMARKS #CONTAINERS; CONDITION	
N5001	MW-984 075	WATER	1x1 L BOTTLE, TAG #: 01490
N5002	MW-984-008	WATER	1x1 L BOTTLE, TAG #: 01509
N5003	MW-984 042	↓	↓, TAG #: 01501
N5004	MW-984-015	WATER	1x1 L BOTTLE, TAG #: 01569
N5005	MW-984-031	↓	↓, TAG #: 01540
N5006	MW-984-039	↓	↓, TAG #: 01553

000069

Chemist JLT

SEMI-VOA/BNA

JOB # N50

Extraction Date 10-30-98

1625M-NDMA
(analysis)

Client Montgomery-W

Extraction Method 1625M (N-NDMA) Extraction Solvent MeCl2 Lot #

Matrix Water Fraction(s) Extracted

Extracts concentrated to 10 mL using K-D apparatus. Extracts then transferred to nitrogen evaporator and concentrated to final volumes listed below. If clean-up is required, reference clean-up method for procedure. Base/neutral and acid fractions combined for Blank and P and R samples only.

SURROGATE: N-NDMA LABEL Date Made 2-2-98 Volume 50 uL Conc. 20 ug/mL Init. JT

MATRIX SPIKE: N-NDMA WKG STD Date Made 8-13-98 Volume 100 uL Conc. 1.0 ug/mL Init. JT

INTERNAL STANDARD:

BN NNDMA IS Vol. 10 uL Date Made 10-12-98 Date Spiked 11-3-98 Conc. 100 ug/mL Init. M.G.

ACID Vol. Date Made Date Spiked Conc. Init.

Sample #	Amount Extracted	% Moisture/ Solids	pH at 1st Extraction	Final Vol. 1st Extract	pH at 2nd Extraction	Final Vol. 2nd Extract	Clean-Up	Comments
8861	1000 mL	N/A	>12	1.0 mL	NA	NA	NONE	
8862								
P+RC24								
P+RC24dup								
N5001								
N5002								
N5003								
N5004								
N5005								
N5006								

Pacific Analytical, Inc.

Pacific Analytical
GC/MS SEMI-VOLATILES
RUN LOG

Instrument: VGØ6 Page: 320

Cal File: 6K03 Date: 11/03/98

Notes: JOBS N50, MONTGOMERY WATSON / NNDMA MWL PROJ #'s: 48614, 48665, 48735.
N52, WEST BASIN MWD / NNDMA
TUNE PAR: SIR = 5.0 ; SEC = 100 ; SF1 = 14 ; SF3 = 210 ; QL = 6.0 ; QH = 10.9 ; DM = 750
SEE = 70 ; SF2 = 21.0 ; SF4 = 21 ; QIE = 1.5 ; QIR = 1.0 STD's PREP. 5/19/98, M.G.

GC PAR: 40° hold 2.5 min, 15°/min to 280°, hold 0.5 min ; 2 µL INJ ; HP = 10 psi

Taped	Sample ID	File Name	OK	Description	OP
	M_2Cl_2	6K03A01	✓	WARM UP	M.G.
		6K03A02	✓		
		03	✓		
		04	✓		
		05	✓		
	NSTD 0.02	06	✓	NNDMA STD. 0.02 µg/mL	
	NSTD0.05	07	✓	0.05	
	NSTD0.10	08	✓	0.10	
	NSTD0.50	09	✓	0.50	
	NSTD1.00	10	✓	1.00	
	PER C24	11	✓	00.10	
	PERC24 dup	12	✓	00.10	
	8861	13	✓	LAB BLANK	
	8862	14	✓	LAB BLANK	
	N5001	15	✓	981026103 (MW-984-075)	
	N5002	16	✓	981027217 (MW-984-008)	
	N5003	17	✓	981027216 (MW-984-042)	
	N5004	18	✓	981028245 (MW-984-015)	
	N5005	19	✓	981028243 (MW-984-031)	
	N5006	20	✓	981028244 (MW-984-039)	
	1/10 N5201	21	✓	1/10 PLANT INFLUENT	
	N5201	22	✓	PLANT INFLUENT	

000071

06/21/93 Reviewed by: _____ on: _____

JOB # N50

CLIENT Monitoring - Walsa

SAMPLE TRACKING FORM

LOCATION #7

Pacific Analytical

SAMPLE NUMBER	IN By	IN Date	OUT By	OUT Date	IN By	IN Date	OUT By	OUT Date	IN By	IN Date	OUT By	OUT Date	IN By	IN Date	OUT By	OUT Date	IN By	IN Date
N5001	JT	10/28/88	JT	10/30/88	OMC	10/30/88		/ /		/ /		/ /		/ /		/ /		/ /
N5002	JT	10/29/88		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /
N5003	↓	↓		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /
N5004	JT	10/30/88		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /
N5005		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /
N5006		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /
	JT			/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /
		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /
		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /
		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /
		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /
		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /
		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /
		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /
		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /
		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /
		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /
		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /
		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /
		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /
		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /		/ /

LINE OUT REMAINING ENTRIES IF CONTAINER WILL NOT BE RETURNED.

JOB N50 000072

JOB # N50

CLIENT Montgomery Watson

SAMPLE TRACKING FORM

EXTRACTS

LOCATION #2

Pacific Analytical

EXTRACTS

SAMPLE NUMBER	IN By	IN Date	OUT By	OUT Date	IN By	IN Date	OUT By	OUT Date	IN By	IN Date	OUT By	OUT Date	IN By	IN Date	OUT By	OUT Date	IN By	IN Date
8861	MA	11/3	AB	MA	11/3	AB	MA	11/4	AB	/	/	/	/	/	/	/	/	/
8862		/	/		/	/		/	/	/	/	/	/	/	/	/	/	/
P&R C24		/	/		/	/		/	/	/	/	/	/	/	/	/	/	/
P&R C24 dup		/	/		/	/		/	/	/	/	/	/	/	/	/	/	/
N5001		/	/		/	/		/	/	/	/	/	/	/	/	/	/	/
N5002		/	/		/	/		/	/	/	/	/	/	/	/	/	/	/
N5003		/	/		/	/		/	/	/	/	/	/	/	/	/	/	/
N5004		/	/		/	/		/	/	/	/	/	/	/	/	/	/	/
N5005		/	/		/	/		/	/	/	/	/	/	/	/	/	/	/
N5006		/	/		/	/		/	/	/	/	/	/	/	/	/	/	/
		/	/		/	/		/	/	/	/	/	/	/	/	/	/	/
		/	/		/	/		/	/	/	/	/	/	/	/	/	/	/
		/	/		/	/		/	/	/	/	/	/	/	/	/	/	/
		/	/		/	/		/	/	/	/	/	/	/	/	/	/	/
		/	/		/	/		/	/	/	/	/	/	/	/	/	/	/
		/	/		/	/		/	/	/	/	/	/	/	/	/	/	/
		/	/		/	/		/	/	/	/	/	/	/	/	/	/	/
		/	/		/	/		/	/	/	/	/	/	/	/	/	/	/
		/	/		/	/		/	/	/	/	/	/	/	/	/	/	/
		/	/		/	/		/	/	/	/	/	/	/	/	/	/	/
		/	/		/	/		/	/	/	/	/	/	/	/	/	/	/
		/	/		/	/		/	/	/	/	/	/	/	/	/	/	/

LINE OUT REMAINING ENTRIES IF CONTAINER WILL NOT BE RETURNED.

JOB N50 0073

[redacted]

5.24.94 US — Chlorinated phenol Surrogate 2.25 ppm

(5.24.94) 2 fluorophenol @ 1000 ppm — 225 mg/l
(5.24.94) 246 tribromophenol @ 1000 ppm — 225 mg/l
up to 100 mL in Acetone
lot 33349

5.24.94 US — Chlorinated phenol Matrix 2.25 ppm

~~2 fluorophenol~~ US 5.24.94

(5.24.94) Pentachlorophenol — 1000 ppm — 225 mg/l
Phenol
246 Trichlorophenol
245 Trichlorophenol
4 chloro 3 methyl phenol
2 chloro phenol
2,4 Dichlorophenol
2,6 Dichlorophenol
Ortho phenyl phenol (2)
up to 100 mL in Acetone lot 33
24 May 94

Trifluralin — Reidel de Haen lot # 7230
0.010 g / 10 mL Hexane — 1000 ug/mL — 24 May 94

Prometon — Reidel de Haen lot # 7251
0.010 g / 10 mL Hexane — 1000 ug/mL — 24 May 94

Metolachlor — Chem Serv lot # 31-98A
0.010 g / 10 mL Hexane — 1000 ug/mL — 24 May 94

3349

US 5.25.94 — NDMA$_{d_6}$ @ 1000 ppm

MSD lot 3414P NDMA$_{d_6}$ — 0.1 g from sealed vial rinsed into 100 mL in $MeCl_2$ lot 33316

US 5.25.94 — NDMA$_{d_6}$ @ 1000 ppm

(5.25.94) NDMA$_{d_6}$ @ 1000 ppm — 200 mg/l
up to 10 mL in $MeCl_2$ lot 33316

PRIVILEGED AND CONFIDENTIAL
ATTORNEY WORK PRODUCT

0.1 g — MD-2937
MSD
N-NITROSODIMETHYL-d_6-AMINE
(99.8 atom % D)
Lot No. 3414-P
MSD ISOTOPES

WARNING — CAS 62-75-9
HIGHLY TOXIC LD_{50} = 28 mg/kg
CANCER SUSPECT
COMBUSTIBLE
Reacts with oxidizing/reducing agents

MSD ISOTOPES MSDS No. 9220

000074

5/27/97

Parent	Parent Conc	aliquot	F. vol	F. Conc
Arochlor	1000 µg/ml	100 µl	10 ml	10 µg/ml

08 Sept 97 PCB Surrogate Spike @ 0.2 ug/ml CSO
2.5 mL 8080 Surr (4/14/97) into 25 mL Acetone

08 Sept 97 Benomyl lot #81E30 CSO
0.010 gram/10 mL Methanol.

(1625 I.S.)

SEPT. 10, 1997 2,2'-Diflauorobiphenyl 10,000 ppm

M.G. 0.2501 g 2,2'-Diflauorobiphenyl (PFALTZ+BAUER LOT # 042605)
DISOLVED IN BENZENE (E.M.Sci LOT # 35114)
THEN BROUGHT TO 25.0 mL IN A VOLUMETRIC FLASK WITH 2,2,4-Trimethylpentane (E M Sci LOT 32365) (~50:50)

FINAL VOL = 25.0 ml FINAL CONC = 10050 mg/mL

1/21/98 1625 ICAL STD'S

M.G.

Conc (µg/mL)	(µL) LABEL	(µL) UNLABEL	(µL) I.S.	(µL) DFTPP
200	250	250	5	1
100	250	125	5	1
50	250	62.5	5	1
20	250	25.0	5	1
10	250	12.5	5	1

DILUTED TO A FINAL VOL. OF 0.5 mL WITH $MeCl_2$ (E.M. Sci LOT 37254)

Where:

LABEL = 200 µg/mL SCC LABELS, 1/19/98, M.G.

UNLABEL = 400 µg/mL UNLABELED, 1/20/98, M.G.

I.S. = 10000 µg/mL 1625 I.S., 9/10/97, M.G.

DFTPP = SUPELCO LOT LA18741, 25000 µg/mL

2/2/98 N-Nitrosodimethylamine-d6 20 µg/mL

M.G.

1.000 mL OF 1000 µg/mL N-Nitrosodimethylamine-d6 (G.S. 5/25/94, 1000 µg/mL) DILUTED TO 50.0 mL IN A VOLUMETRIC FLASK w/ ACETONE (EM Sci LOT # 37197)

FINAL CONC = 20 µg/mL F.V. = 50.0 mL

2/2/98 N-Nitrosodimethylamine STOCK 1000 µg/mL

M.G.

0.100 g N-Nitrosodimethylamine (ALDRICH LOT # 06582TT) DILUTED TO 100.0 mL IN A VOLUMETRIC FLASK w/ACETONE (EM Sci LOT 37197)

FINAL CONC = 1000 µg/mL FV = 100.0 mL

05/05/98 1625 ICAL STD's

MG

CONC (µg/L)	(µL) LABEL	(µL) UNLABEL	(µL) I.S.	(µL) DFTPP
200	250	250	5	1
100	250	125	5	1
50	250	62.5	5	1
20	250	25.0	5	1
10	250	12.5	5	1

Where LABEL = 200 µg/mL SCC LABELS, 4/6/98, M.G.
UNLABEL = 400 µg/mL UNLABELED, 4/6/98, M.G.
I.S. = 10000 µg/mL 1625 I.S. 9/10/97, M.G.
DFTPP = SUPELCO LOT LA 18741, 25000 µg/mL

DILUTED TO A FINAL VOLUME OF 0.5 mL WITH MeCl2 (EM SCI. LOT 38071)

05/12/98 NNDMA STD's goes with set on 2-9-98

MG

CONC (µg/mL)	(µL) NATIVE	(µL) LABEL	(µL) I.S.
1.00	1	50	10
10.00	5	50	10
0.02	*20	50	10

where NATIVE = NNDMA 1000 µg/mL, 2/2/98, M.G.
* NATIVE = NNDMA WORKING STD 1.0 µg/mL, 2/9/98, M.G.
LABEL = NNDMA-d6 20 µg/mL, 2/2/98, M.G.
I.S. = MILK INT STD. 100 µg/mL, 1/8/98, M.G.

5/18/98 NNDMA INT. STD. 100 µg/mL

MG

0.100 mL 1625 I.S. (10000 µg/mL, 9/10/97, M.G)

DILUTED IN A VOLUMETRIC FLASK WITH BENZENE (BAKER LOT C51712) TO 10.0 mL

FV = 10.0 mL FINAL CONC = 100 µg/mL

000077

5/18/98 NNDMA WORKING STD 1.0 µg/mL
M.G. ~~0.100 mL OF~~

0.010 mL OF N-Nitrosodimethylamine STOCK
(1000 µg/mL, 2/2/98, M.G.)
DILUTED TO 10.0 mL IN A VOLUMETRIC FLASK
WITH $MeCl_2$ (EM Sci LOT 38090)
FV = 10.0 mL FINAL CONC = 1.0 µg/mL

~~5/18/98~~ NNDMA ICAL STD'S
M.G.

	(µg/mL) CONC	(µL) NATIVE	(µL) LABEL	(µL) I.S.
5/19/98	0.01	10	50	10
	0.02	20	50	10
	0.05	50	50	10
	0.10	100	50	10
	0.50	500	50	10
	1.00	1000	50	10

Where: NATIVE = NNDMA WORKING STD (1.0 µg/mL 5/18/98, M.G.)
LABEL = N-NDMA-d6 (20 µg/mL, 2/2/98, M.G.)
I.S. = NNDMA INT STD (100 µg/mL, 5/12/98, M.G.)
DILUTED (OR BLOWN DOWN) TO 1.0 mL W/ $MeCl_2$
(EM Sci LOT: 38090)

8/6/98 8080 Surrogate (0.2 µg/mL)
5 mL 8080 Surrogate (2 µg/mL, 1/3/97)
in 50 mL of acetone. JLT
Aceton Lot #: 37/97

8/13/98
N-NDMA LABEL (20 µg/mL)
1.0 mL N-NDMA LABEL (1000ppm, 5-25-94) in
50 mL of acetone (Lot #: 37/97) JLT

8/13/98 N-NDMA Working Std (1.0 µg/mL)
10 µL of N-NDMA UNLABEL (1000 µg/mL, 2-2-98)
in 10 mL of acetone (Lot #: 37/97) JLT

8/13/98 1625 I.S. (1000 µg/mL)
1 mL 1625 I.S. (10,000 µg/mL, 9-10-97) in 10 mL
$MeCl_2$ (Lot #: ~~38091~~ 38191) JLT

08 Sept 98 Stearic Acid Mallinckrodt Lot # 2216 KPPC CAP
1000 ug/mL 0.010g /10mL benzene.

1656 indiv stock solutions

~~10/6/98 Acephate (Riedel-d Haën) lot # 8078 95% pure 0.0 in 10 ml benzene (EM lot~~

10/6/98

name	supplier	lot #	purity	(g) weight	(ml) Final Vol	(mg/ml) Final Conc
1) Acephat	Riedel-de-Haën	8078	95%	0.0500	10 **	5000
2) Perthane	Chem Service	23-31C	99.4%	0.0503	10 *	5000
3) 1,2-dibromo-3-chloro propane	Pfaltz & Bauer	DC9210	97%	0.0110	10 *	1000

** brought up to vol in acetone (Omni Solv lot 37197) 2:8 dll 10/7/98

Methanol / Spectrum lot 5 D006

* brought up to vol in benzene (Omni solv lot 35114) dll

10/7/98 1625 INT. STD. 10000 µg/mL

M.G. 0.2503 g 2,2'-Difluorobiphenyl (PFALTZ & BAUER LOT 042605) DILUTED IN A VOLUMETRIC FLASK W/ BENZENE (EM Sci LOT 35114) UNTIL DISSOLVED PLUS 2,2,4-Trimethylpentane (EM Sci LOT 32365) (~1:1) TO 25.0 mL

~~10/7/98 1656 MS spike (10x mid)~~

~~dll~~ ~~VOID~~

7'D

10/7/98
M.G.

JOB N33 HOLDING TIME STUDY CONT'D

SOL'N	(mL) USED
ULTRA SCIENTIFIC 250 Smith St., North Kingstown, RI 02852 401-294-9400 Phenols Mixture US-107N 1 mL 2000 ug/mL each in Methylene Chloride Lot No. [illegible] Exp. Date [illegible]	0.050
ULTRA SCIENTIFIC 250 Smith St., North Kingstown, RI 02852 401-294-9400 CUSTOM PESTICIDE STANDARD CUS-2818 1 mL 500 ug/mL in METHYLENE CHLORIDE Lot No. M-1146 Exp. Date 08/1999	0.200
ULTRA SCIENTIFIC 250 Smith St., North Kingstown, RI 02852 401-294-9400 CUSTOM STANDARD CUS-2816 1 mL 2000 ug/mL in METHYLENE CHLORIDE Lot No. M-1149 Exp. Date 08/1999	0.050
ULTRA SCIENTIFIC 250 Smith St., North Kingstown, RI 02852 401-294-9400 Base/Neutral Extractables Mixture SVM-101A 1 mL 500 ug/mL each in Methylene Chloride Lot No. M-501A Exp. Date 03/00	0.200

END

10/9/98
dw

8080 Surr. Std. 0.2 µg/ml
2.5 ml 8080 surrogate (2.0 µg/ml) MG. 1/3/97
dil. to 25 ml in volumetric w/
acetone (Omnisolv 37197)

10/12/98
M.G.

NNDMA INT. STD. @ 100 µg/mL (2,2'-DFB)
0.100 mL OF 1625 INT. STD. (10/7/98, MG, 10000 µg/mL)
DILUTED IN A VOLUMETRIC FLASK TO 10.0 mL WITH
$MeCl_2$ (EM Sci Lot 38217)

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory Report

for

Foster Wheeler Environmental, Inc
611 Anton Boulevard

Suite 800

Costa Mesa , CA 92626

Attention: Mark Cutler
Fax: (714)444-5560

MONTGOMERY WATSON LABS.
SUBMITTED ON
NOV 13 1998

DEB* Debbie Frank

Report#: 48735
JPL

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Report
Comments
#48735

(981028243)
CUSTOMMS
Analytical results for CUSTOMMS NNDMA were submitted by Pacific Analytical, Inc.

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory
Report
#48735

Foster Wheeler Environmental, Inc
Mark Cutler
611 Anton Boulevard
Suite 800
Costa Mesa , CA 92626

Samples Received
28-oct-1998 17:30:52

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-984-031 (981028243) Sampled on 10/28/98								
	11/03/98		( )	Custom GCMS Analysis	see attchd	None	0.0000	1
			1,4-Dioxane					
11/02/98	11/05/98	86944	(ML/SW 8270)	1,4-Dioxane	ND	ug/l	3.0	1
			(Surrogate)	2-Flurobiphenyl	73	% Rec		
			(Surrogate)	Nitrobenzene-d5	70	% Rec		
			(Surrogate)	Terphenyl-d14	53	% Rec		
MW-984-039 (981028244) Sampled on 10/28/98								
	11/03/98		( )	Custom GCMS Analysis	see attchd	None	0.0000	1
			1,4-Dioxane					
11/02/98	11/05/98	86944	(ML/SW 8270)	1,4-Dioxane	3.7	ug/l	3.0	1
			(Surrogate)	2-Flurobiphenyl	70	% Rec		
			(Surrogate)	Nitrobenzene-d5	62	% Rec		
			(Surrogate)	Terphenyl-d14	55	% Rec		
MW-984-015 (981028245) Sampled on 10/28/98								
	11/03/98		( )	Custom GCMS Analysis	see attchd	None	0.0000	1
			1,4-Dioxane					
11/02/98	11/05/98	86944	(ML/SW 8270)	1,4-Dioxane	ND	ug/l	3.0	1
			(Surrogate)	2-Flurobiphenyl	72	% Rec		
			(Surrogate)	Nitrobenzene-d5	63	% Rec		
			(Surrogate)	Terphenyl-d14	58	% Rec		

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 8324
1 800 566 LABS (1 800 566 5227)

Laboratory
QC Report
#48735

Foster Wheeler Environmental, Inc

QC Batch #86944 1,4-Dioxane

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	1,4-Dioxane	10	8.16	81.6	(70.00 - 130.00)	
MBLK	1,4-Dioxane	ND				
MS	1,4-Dioxane	10	8.00	80.0	(70.00 - 130.00)	
MSD	1,4-Dioxane	20	17.4	87.0	(70.00 - 130.00)	
MS	Spiked sample	Lab # 98	1028244		(0.00 - 0.00)	

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES

November 18, 1998

Foster Wheeler Environmental
611 Anton Blvd Suite 800
Costa Mesa, CA.92626

Attention: Mark Cutler

Re: Report # 48770 (MW-984-089, -090, -077, -076, -079, -078)

Dear Mark,

Enclosed please find data deliverables for the recent JPL project. A detailed quality control (QC) summary follows:

Non-conformance (LCS, MS/MSD, Surrogates, and Holding Times):
None
Samples requiring dilution (with increased MRL's):
Diluted for Carbon Tetrachloride: MW-984-076
Diluted for Perchlorate: MW-984-076
Method blanks with compounds detected:
None
Other Comments:
1,1-Dichloroethylene was detected in sample ID: MW-984-076
Carbon Tetrachloride was detected in sample ID: MW-984-076
Chloroform was detected in sample ID: MW-984-076
Dichloromethane was detected in sample ID: MW-984-089
Tetrachloroethylene was detected in sample ID: MW-984-076
Trichloroethylene was detected in sample ID: MW-984-076
Perchlorate is reported as ND for sample ID: MW-984-076
TICS:
None
Method Variance:
None

Sincerely,

Debbie Frank
Project Manager

cc: Judy Novelly (JPL)

a Division of Montgomery Watson Americas, Inc.

555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400
Fax: 626 568 6324

4820 South Mill Avenue
Suite 202
Tempe, Arizona 85282
Tel: 602 755 8201
Fax: 602 755 8203

Quality Environmental Analysis

Montgomery Watson Laboratories
, Los Angeles, CA 90051-3508
PHONE: 626-568-6400/FAX: 626-568-6324

ACKNOWLEDGMENT OF SAMPLES RECEIVED

Foster Wheeler Environmental, Inc
611 Anton Boulevard
Suite 800
Costa Mesa, CA 92626
Attn: Mark Cutler

Customer Code: ENSERCH
PO#: Sub PO#007618-0004
Group#: 48770
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

The following samples were received from you on 10/29/98. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using Montgomery Watson Laboratories.

Sample#	Sample Id	Tests Scheduled		Matrix			Sample Date
981029369	MW-984-089			Water			10/29/98
		@EBASVOA	AS-EBAS	CR-EBAS	PB-EBAS	CR-VI	
		CLO4					
981029370	MW-984-090			Water			10/29/98
		@EBASVOA					
981029371	MW-984-077			Water			10/29/98
		@EBASVOA	CR-VI	PB-EBAS	CR-EBAS	AS-EBAS	
		TDS	CATION1	ANION1	PH	EC	HCO3
		CO3	ALK	NO3	SO4	CL	FE-MS
		K	NA	MG	CA	CLO4	
981029372	MW-984-076			Water			10/29/98
		@EBASVOA	CLO4	CA	MG	NA	
		K	FE-MS	CL	SO4	NO3	ALK
		CO3	HCO3	EC	PH	ANION1	CATIO
		TDS	AS-EBAS	CR-EBAS	PB-EBAS	CR-VI	
981029373	MW-984-079			Water			10/29/98
		@EBASVOA	CLO4	CA	MG	NA	
		K	FE-MS	CL	SO4	NO3	ALK
		CO3	HCO3	EC	PH	ANION1	CATIO
		TDS	AS-EBAS	CR-EBAS	PB-EBAS	CR-VI	
981029374	MW-984-078			Water			10/29/98
		@EBASVOA	CLO4	CA	MG	NA	
		K	FE-MS	CL	SO4	NO3	ALK
		CO3	HCO3	EC	PH	ANION1	CATIO
		TDS	AS-EBAS	CR-EBAS	PB-EBAS	CR-VI	

Test Acronym Description

Test Acronym	Description
@EBASVOA	Regulated VOCs plus Lists 1&3
ALK	Alkalinity
ANION1	Anion Sum

Foster Wheeler Environmental, Inc
611 Anton Boulevard
Suite 800
Costa Mesa, CA 92626
Attn: Mark Cutler

Customer Code: ENSERCH
PO#: Sub PO#007618-0004
Group#: 48770
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

Test Acronym Description

Test Acronym	Description
AS-EBAS	Arsenic, Total, GF
CA	Calcium, Total, ICAP
CATION1	Cation Sum
CL	Chloride
CLO4	Perchlorate
CO3	Carbonate as CO3, Calculated
CR-EBAS	Chromium, Total, ICAP/MS
CR-VI	Hexavalent chromium (Cr VI)
EC	Specific Conductance
FE-MS	Iron, Total, ICAP/MS
HCO3	Bicarbonate as HCO3,calculated
K	Potassium, Total, ICAP
MG	Magnesium, Total, ICAP
NA	Sodium, Total, ICAP
NO3	Nitrate-N by IC
PB-EBAS	Lead, Total, ICAP/MS
PH	Lab pH
SO4	Sulfate
TDS	Total Dissolved Solid (TDS)

NUMBER 21 J1

48770

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

PROJECT: JPL

OFS NO.: 1572.0260

PROJECT ADDRESS: 4800 OAK GROVE DR., PASADENA, CA

SAMPLER (Name): B. DUMONSIL

SAMPLER (Signature): Brittany Dumonsil

LABORATORY: MONTGOMERY WATSON LABS

REPORTS TO BE SENT TO: MR. MALIK CUTLOC

HAZARD IDENTIFICATION: Non Hazard ☒ Reactive ☐ Flammable ☐ Toxic ☐ Skin Irritant ☐ Infectious ☐

TIME REQUIRED: NORMAL ☒ ___ DAYS; RUSH ☐ ___ DAYS

ANALYSES REQUIRED

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL: WATER	SOIL	OTHER (Describe)	VOCs (SW 8260)	TOTAL VOC Pb (SW 8270)	MAJOR ANIONS + TDS	HEX C	PERCHLORATE	OC (SW 8081)				
MW-984-089	1405	10/29/99	5	2x40ml 1x250ml 2x125ml	X			X	X		X	X					
MW-984-090	1120	↓	2	2x40ml	X			X									
MW-984-077	1200	↓	6	2x40ml 1x250ml 2x125ml 1x500ml	X			X	X	X	X	X					
MW-984-076	1305	↓	6	↓	X			X	X	X	X	X					
MW-984-079	1415	↓	6	↓	X			X	X	X	X	X					
MW-984-078	1545	↓	6	↓	X			X	X	X	X	X	X				

LABORATORY INSTRUCTIONS/COMMENTS

LEVEL IV QA/QC

RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)	RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)
COMPANY	TIME	COMPANY	COMPANY	TIME	COMPANY

F-2

SHIPPING COPY

MONTGOMERY LABORATORIES COOLER RECEIPT FORM

PROJECT: Ensenada Date Received: 10/29/98

Use other side of this form to note further details concerning check-in problems and to describe any action(s) regarding the resolution(s) of problems.

A. PRELIMINARY EXAMINATION: Date cooler opened: 10/29/98

by (print) [illegible] (sign) [illegible]

1. Did cooler come with shipping slip (air bill, etc.)? Yes **No**
   If YES, attach & enter carrier and air bill # here: _____

2. Were custody seals on outside of cooler? **Yes** No
   If YES, how many & where: 0
   If Yes, enter the following: seal date: 10/29/98, seal name: BD

3. Were custody seals unbroken & intact at delivery? **Yes** No

4. Were custody papers sealed in bag & taped to lid? Yes **No**

5. Were custody papers filled out properly (ink, etc.) **Yes** No

6. Did you sign custody papers in appropriate place? **Yes** No

7. Was project identifiable from custody papers? **Yes** No

8. Have designated person(s) initial to acknowledge receipt: VKM (date) 10/29/98

B. LOG-IN PHASE: Date samples were logged-in: 10-29-98 by:
   (print) MARTIN L. DE NIESP (sign) [illegible]

9. Describe packing:

10. If required, was enough ice used? **Yes** No

11. Were all bottles sealed in separate plastic bags? **Yes** No

12. Did all bottles arrive unbroken/in good condition? **Yes** No

13. Were all bottle labels complete (ID,date,sign,pres)? **Yes** No

14. Did all bottle labels agree with custody papers? **Yes** No
    If NO, indicate descrepancies on back.

15. Were correct containers useed for the analytes? **Yes** No

16. Were correct preservatives used when required? **Yes** No

17. Was sufficient amount of sample sent for tests? **Yes** No

18. Bubbles absent in VOA vials? **Yes** No
    If NO, list by sample id on back.

19. Was Client Services informed of problems? Yes No

Report Summary of positive results, PR48770

			Result	MDL	UNITS
Analyzed	981029369	MW-984-089			
10/30/98	Dichloromethane		5.6	.500	UGL
Analyzed	981029370	MW-984-090			
Analyzed	981029371	MW-984-077			
11/03/98	Alkalinity		166	2.000	MGL
11/10/98	Anion Sum		4.65	.001	MEQL
11/10/98	Bicarbonate as HCO3,calculated		202	.001	MGL
11/02/98	Calcium, Total, ICAP		36.3	1.000	MGL
11/10/98	Carbonate as CO3, Calculated		0.828	.001	MGL
11/09/98	Cation Sum		4.56	.001	MEQL
10/30/98	Chloride		28.4	1.000	MGL
11/02/98	Iron, Total, ICAP/MS		1500	******	UGL
11/02/98	Lab pH		7.8	.001	UNIT
11/02/98	Magnesium, Total, ICAP		12.3	.100	MGL
10/30/98	Nitrate-N by IC		2.13	.100	MGL
11/02/98	Potassium, Total, ICAP		1.97	1.000	MGL
11/02/98	Sodium, Total, ICAP		38.7	1.000	MGL
11/03/98	Specific Conductance		455	4.000	UMHO
10/30/98	Sulfate		18.0	2.000	MGL
11/02/98	Total Dissolved Solid (TDS)		270	10.000	MGL
Analyzed	981029372	MW-984-076			
10/30/98	1,1-Dichloroethylene		0.8	.500	UGL
11/04/98	Carbon Tetrachloride		19	1.000	UGL
10/30/98	Chloroform (Trichloromethane)		5.9	.500	UGL
10/30/98	Tetrachloroethylene (PCE)		0.8	.500	UGL
10/30/98	Trichloroethylene (TCE)		2.3	.500	UGL
11/03/98	Alkalinity		134	2.000	MGL
11/10/98	Anion Sum		4.06	.001	MEQL
11/10/98	Bicarbonate as HCO3,calculated		163	.001	MGL
11/02/98	Calcium, Total, ICAP		26.1	1.000	MGL
11/10/98	Carbonate as CO3, Calculated		1.68	.001	MGL
11/09/98	Cation Sum		4.00	.001	MEQL
10/31/98	Chloride		30.4	1.000	MGL
11/02/98	Iron, Total, ICAP/MS		740	******	UGL
11/02/98	Lab pH		8.2	.001	UNIT
11/02/98	Magnesium, Total, ICAP		11.3	.100	MGL
10/31/98	Nitrate-N by IC		2.87	.100	MGL
11/11/98	Perchlorate		490	40.000	UGL
11/02/98	Potassium, Total, ICAP		2.52	1.000	MGL
11/02/98	Sodium, Total, ICAP		39.0	1.000	MGL
11/03/98	Specific Conductance		410	4.000	UMHO
10/31/98	Sulfate		15.0	2.000	MGL
11/05/98	Total Dissolved Solid (TDS)		250	10.000	MGL
Analyzed	981029373	MW-984-079			
11/03/98	Alkalinity		172	2.000	MGL
11/10/98	Anion Sum		4.24	.001	MEQL
11/10/98	Bicarbonate as HCO3,calculated		209	.001	MGL

11/02/98	Calcium, Total, ICAP	34.9	1.000	MGL
11/10/98	Carbonate as CO3, Calculated	1.08	.001	MGL
11/09/98	Cation Sum	4.25	.001	MEQL
10/31/98	Chloride	9.30	1.000	MGL
11/02/98	Iron, Total, ICAP/MS	430	******	UGL
11/02/98	Lab pH	7.9	.001	UNIT
11/02/98	Magnesium, Total, ICAP	8.91	.100	MGL
10/31/98	Nitrate-N by IC	1.09	.100	MGL
11/02/98	Potassium, Total, ICAP	1.79	1.000	MGL
11/02/98	Sodium, Total, ICAP	39.7	1.000	MGL
11/03/98	Specific Conductance	415	4.000	UMHO
10/31/98	Sulfate	21.9	2.000	MGL
11/05/98	Total Dissolved Solid (TDS)	240	10.000	MGL

Analyzed 981029374 MW-984-078

11/03/98	Alkalinity	151	2.000	MGL
11/10/98	Anion Sum	3.81	.001	MEQL
11/10/98	Bicarbonate as HCO3,calculated	183	.001	MGL
11/02/98	Calcium, Total, ICAP	24.6	1.000	MGL
11/10/98	Carbonate as CO3, Calculated	1.88	.001	MGL
11/09/98	Cation Sum	3.84	.001	MEQL
10/31/98	Chloride	12.7	1.000	MGL
11/02/98	Iron, Total, ICAP/MS	420	******	UGL
11/02/98	Lab pH	8.2	.001	UNIT
11/02/98	Magnesium, Total, ICAP	9.89	.100	MGL
10/31/98	Nitrate-N by IC	3.72	.100	MGL
11/02/98	Potassium, Total, ICAP	1.84	1.000	MGL
11/02/98	Sodium, Total, ICAP	40.3	1.000	MGL
11/03/98	Specific Conductance	375	4.000	UMHO
10/31/98	Sulfate	7.76	2.000	MGL
11/05/98	Total Dissolved Solid (TDS)	200	10.000	MGL

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory Report

for

Foster Wheeler Environmental, Inc
611 Anton Boulevard

Suite 800

Costa Mesa , CA 92626

Attention: Mark Cutler
Fax: (714)444-5560

MONTGOMERY WATSON LABS.
SUBMITTED ON
NOV 13 1998

DEB* Debbie Frank

Report#: 48770
JPL

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory Report #48770

Foster Wheeler Environmental, Inc
Mark Cutler
611 Anton Boulevard
Suite 800
Costa Mesa , CA 92626

Samples Received
29-oct-1998 16:39:40

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-984-089 (981029369) Sampled on 10/29/98								
11/02/98	11/05/98	87003	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	11/10/98	87095	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
11/02/98	11/02/98	86760	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	10/29/98	86554	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
11/02/98	11/02/98	86761	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
			Regulated VOCs plus Lists 1&3					
	10/30/98	86935	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	10/30/98	86935	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	10/30/98	86935	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory Report #48770

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	10/30/98	86935	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Dichloromethane	5.6	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	104	% Rec		
			(Surrogate)	4-Bromofluorobenzene	105	% Rec		
			(Surrogate)	Toluene-d8	99	% Rec		

MW-984-090 (981029370) Sampled on 10/29/98

Regulated VOCs plus Lists 1&3

	10/30/98	86935	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	10/30/98	86935	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	10/30/98	86935	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	10/30/98	86935	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	108	% Rec		
			(Surrogate)	4-Bromofluorobenzene	97	% Rec		
			(Surrogate)	Toluene-d8	100	% Rec		

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-984-077 (981029371) Sampled on 10/29/98								
	11/03/98	86969	(ML/S2320B)	Alkalinity	166	mg/l	2.0	1
	11/10/98		(ML/SM1040)	Anion Sum	4.65	meq/l	0.0010	1
11/02/98	11/05/98	87003	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
11/02/98	11/02/98	86693	(EPA/ML 200.7)	Calcium, Total, ICAP	36.3	mg/l	1.0	1
	11/09/98		(ML/SM1040)	Cation Sum	4.56	meq/l	0.0010	1
	10/30/98	86675	(ML/EPA 300)	Chloride	28.4	mg/l	1.0	1
	11/10/98	87095	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	11/10/98		(ML/S2320-B)	Carbonate as CO3, Calculated	0.828	mg/l	0.0010	1
11/02/98	11/02/98	86760	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	10/29/98	86554	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	11/03/98	86713	(ML/S2510B)	Specific Conductance	455	umho/cm	4.0	1
11/02/98	11/02/98	86762	(EPA/ML 200.8)	Iron, Total, ICAP/MS	1500	ug/l	100	1
	11/10/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	202	mg/l	0.0010	1
11/02/98	11/02/98	86695	(ML/EPA 200.7)	Potassium, Total, ICAP	1.97	mg/l	1.0	1
11/02/98	11/02/98	86697	(ML/EPA 200.7)	Magnesium, Total, ICAP	12.3	mg/l	0.10	1
11/02/98	11/02/98	86700	(ML/EPA 200.7)	Sodium, Total, ICAP	38.7	mg/l	1.0	1
	10/30/98	86677	(ML/EPA 300.0)	Nitrate-N by IC	2.13	mg/l	0.10	1
11/02/98	11/02/98	86761	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	11/02/98	86662	(ML/SM 4500H)	Lab pH	7.8	Units	0.0010	1
	10/30/98	86679	(ML/EPA 300.0)	Sulfate	18.0	mg/l	2.0	1
	11/02/98	86732	(ML/S2540C)	Total Dissolved Solid (TDS)	270	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	10/30/98	86935	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	10/30/98	86935	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	10/30/98	86935	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	10/30/98	86935	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	10/30/98	86935	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	104	% Rec		
			(Surrogate)	4-Bromofluorobenzene	103	% Rec		
			(Surrogate)	Toluene-d8	98	% Rec		

MW-984-076 (981029372) Sampled on 10/29/98

	11/03/98	86969	(ML/S2320B)	Alkalinity	134	mg/l	2.0	1
	11/10/98		(ML/SM1040)	Anion Sum	4.06	meq/l	0.0010	1
11/02/98	11/05/98	87003	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
11/02/98	11/02/98	86693	(EPA/ML 200.7)	Calcium, Total, ICAP	26.1	mg/l	1.0	1
	11/09/98		(ML/SM1040)	Cation Sum	4.00	meq/l	0.0010	1
	10/31/98	86675	(ML/EPA 300)	Chloride	30.4	mg/l	1.0	1
	11/11/98	87108	(MOD/EPA 300)	Perchlorate	490	ug/l	40	10
	11/10/98		(ML/S2320-B)	Carbonate as CO3, Calculated	1.68	mg/l	0.0010	1
11/02/98	11/02/98	86760	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	10/29/98	86554	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	11/03/98	86713	(ML/S2510B)	Specific Conductance	410	umho/cm	4.0	1
11/02/98	11/02/98	86762	(EPA/ML 200.8)	Iron, Total, ICAP/MS	740	ug/l	100	1
	11/10/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	163	mg/l	0.0010	1
11/02/98	11/02/98	86695	(ML/EPA 200.7)	Potassium, Total, ICAP	2.52	mg/l	1.0	1
11/02/98	11/02/98	86697	(ML/EPA 200.7)	Magnesium, Total, ICAP	11.3	mg/l	0.10	1
11/02/98	11/02/98	86700	(ML/EPA 200.7)	Sodium, Total, ICAP	39.0	mg/l	1.0	1
	10/31/98	86677	(ML/EPA 300.0)	Nitrate-N by IC	2.87	mg/l	0.10	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
11/02/98	11/02/98	86761	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	11/02/98	86662	(ML/SM 4500H)	Lab pH	8.2	Units	0.0010	1
	10/31/98	86679	(ML/EPA 300.0)	Sulfate	15.0	mg/l	2.0	1
	11/05/98	86956	(ML/S2540C)	Total Dissolved Solid (TDS)	250	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	10/30/98	86935	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1-Dichloroethylene	0.8	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	10/30/98	86935	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	10/30/98	86935	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	11/04/98	86935	(ML/EPA 524.2)	Carbon Tetrachloride	19	ug/l	1.0	2
	10/30/98	86935	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Chloroform (Trichloromethane)	5.9	ug/l	0.50	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	10/30/98	86935	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	0.8	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Trichloroethylene (TCE)	2.3	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	111	% Rec		
			(Surrogate)	4-Bromofluorobenzene	93	% Rec		
			(Surrogate)	Toluene-d8	95	% Rec		

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-984-079 (981029373) Sampled on 10/29/98								
	11/03/98	86969	(ML/S2320B)	Alkalinity	172	mg/l	2.0	1
	11/10/98		(ML/SM1040)	Anion Sum	4.24	meq/l	0.0010	1
11/02/98	11/05/98	87003	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
11/02/98	11/02/98	86693	(EPA/ML 200.7)	Calcium, Total, ICAP	34.9	mg/l	1.0	1
	11/09/98		(ML/SM1040)	Cation Sum	4.25	meq/l	0.0010	1
	10/31/98	86675	(ML/EPA 300)	Chloride	9.30	mg/l	1.0	1
	11/10/98	87095	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	11/10/98		(ML/S2320-B)	Carbonate as CO3, Calculated	1.08	mg/l	0.0010	1
11/02/98	11/02/98	86760	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	10/29/98	86554	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	11/03/98	86713	(ML/S2510B)	Specific Conductance	415	umho/cm	4.0	1
11/02/98	11/02/98	86762	(EPA/ML 200.8)	Iron, Total, ICAP/MS	430	ug/l	100	1
	11/10/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	209	mg/l	0.0010	1
11/02/98	11/02/98	86695	(ML/EPA 200.7)	Potassium, Total, ICAP	1.79	mg/l	1.0	1
11/02/98	11/02/98	86697	(ML/EPA 200.7)	Magnesium, Total, ICAP	8.91	mg/l	0.10	1
11/02/98	11/02/98	86700	(ML/EPA 200.7)	Sodium, Total, ICAP	39.7	mg/l	1.0	1
	10/31/98	86677	(ML/EPA 300.0)	Nitrate-N by IC	1.09	mg/l	0.10	1
11/02/98	11/02/98	86761	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	11/02/98	86701	(ML/SM 4500H)	Lab pH	7.9	Units	0.0010	1
	10/31/98	86679	(ML/EPA 300.0)	Sulfate	21.9	mg/l	2.0	1
	11/05/98	86956	(ML/S2540C)	Total Dissolved Solid (TDS)	240	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	10/30/98	86935	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	10/30/98	86935	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	10/30/98	86935	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	10/30/98	86935	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 568 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	10/30/98	86935	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	102	% Rec		
			(Surrogate)	4-Bromofluorobenzene	100	% Rec		
			(Surrogate)	Toluene-d8	96	% Rec		

MW-984-078 (981029374) Sampled on 10/29/98

	11/03/98	86969	(ML/S2320B)	Alkalinity	151	mg/l	2.0	1
	11/10/98		(ML/SM1040)	Anion Sum	3.81	meq/l	0.0010	1
11/02/98	11/05/98	87003	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
11/02/98	11/02/98	86693	(EPA/ML 200.7)	Calcium, Total, ICAP	24.6	mg/l	1.0	1
	11/09/98		(ML/SM1040)	Cation Sum	3.84	meq/l	0.0010	1
	10/31/98	86675	(ML/EPA 300)	Chloride	12.7	mg/l	1.0	1
	11/10/98	87095	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	11/10/98		(ML/S2320-B)	Carbonate as CO3, Calculated	1.88	mg/l	0.0010	1
11/02/98	11/02/98	86760	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	10/29/98	86554	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	11/03/98	86713	(ML/S2510B)	Specific Conductance	375	umho/cm	4.0	1
11/02/98	11/02/98	86762	(EPA/ML 200.8)	Iron, Total, ICAP/MS	420	ug/l	100	1
	11/10/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	183	mg/l	0.0010	1
11/02/98	11/02/98	86695	(ML/EPA 200.7)	Potassium, Total, ICAP	1.84	mg/l	1.0	1
11/02/98	11/02/98	86697	(ML/EPA 200.7)	Magnesium, Total, ICAP	9.89	mg/l	0.10	1
11/02/98	11/02/98	86700	(ML/EPA 200.7)	Sodium, Total, ICAP	40.3	mg/l	1.0	1
	10/31/98	86677	(ML/EPA 300.0)	Nitrate-N by IC	3.72	mg/l	0.10	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
11/02/98	11/02/98	86761	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	11/02/98	86662	(ML/SM 4500H)	Lab pH	8.2	Units	0.0010	1
	10/31/98	86679	(ML/EPA 300.0)	Sulfate	7.76	mg/l	2.0	1
	11/05/98	86956	(ML/S2540C)	Total Dissolved Solid (TDS)	200	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	10/30/98	86935	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	10/30/98	86935	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	10/30/98	86935	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	10/30/98	86935	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	10/30/98	86935	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	105	% Rec		
			(Surrogate)	4-Bromofluorobenzene	92	% Rec		
			(Surrogate)	Toluene-d8	93	% Rec		

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory QC Report #48770

Foster Wheeler Environmental, Inc

QC Batch #86554 Hexavalent chromium (Cr VI)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1029374		(0.00 - 0.00)	
LCS1	Hexavalent chromium (Cr VI)	0.050	0.0504	100.8	(78.00 - 118.00)	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.0504	100.8	(78.00 - 118.00)	0.00
MBLK	Hexavalent chromium (Cr VI)	ND				
MS	Hexavalent chromium (Cr VI)	0.050	0.0510	102.0	(80.00 - 120.00)	
MSD	Hexavalent chromium (Cr VI)	0.050	0.0504	100.8	(80.00 - 120.00)	1.2

QC Batch #86662 Lab pH

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	lab # 98	1030239		(0.00 - 0.00)	

QC Batch #86675 Chloride

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1029374		(0.00 - 0.00)	
LCS1	Chloride	25	26.0	104.0	(90.00 - 110.00)	
LCS2	Chloride	25	26.0	104.0	(90.00 - 110.00)	0.00
MBLK	Chloride	ND				
MS	Chloride	25	26.3	105.2	(80.00 - 120.00)	
MSD	Chloride	25	26.4	105.6	(80.00 - 120.00)	0.38

QC Batch #86677 Nitrate-N by IC

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1029374		(0.00 - 0.00)	
LCS1	Nitrate-N by IC	2.5	2.59	103.6	(90.00 - 110.00)	
LCS2	Nitrate-N by IC	2.5	2.57	102.8	(90.00 - 110.00)	0.78
MBLK	Nitrate-N by IC	ND				
MS	Nitrate-N by IC	2.5	2.28	91.2	(80.00 - 120.00)	
MSD	Nitrate-N by IC	2.5	2.29	91.6	(80.00 - 120.00)	0.44

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory
QC Report
#48770

Foster Wheeler Environmental, Inc
(continued)

QC Batch #86679 Sulfate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1029374		(0.00 - 0.00)	
LCS1	Sulfate	50	51.3	102.6	(90.00 - 110.00)	
LCS2	Sulfate	50	51.5	103.0	(90.00 - 110.00)	0.39
MBLK	Sulfate	ND				
MS	Sulfate	50	52.5	105.0	(80.00 - 120.00)	
MSD	Sulfate	50	52.8	105.6	(80.00 - 120.00)	0.57

QC Batch #86693 Calcium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1028239		(0.00 - 0.00)	
LCS1	Calcium, Total, ICAP	50	56.8	113.6	(85.00 - 115.00)	
LCS2	Calcium, Total, ICAP	50	56.5	113.0	(85.00 - 115.00)	0.53
MBLK	Calcium, Total, ICAP	ND				
MS	Calcium, Total, ICAP	50	47.1	94.2	(70.00 - 130.00)	
MSD	Calcium, Total, ICAP	50	47.2	94.4	(70.00 - 130.00)	0.21

QC Batch #86695 Potassium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1028239		(0.00 - 0.00)	
LCS1	Potassium, Total, ICAP	20	19.6	98.0	(80.00 - 110.00)	
LCS2	Potassium, Total, ICAP	20	19.4	97.0	(80.00 - 110.00)	1.0
MBLK	Potassium, Total, ICAP	ND				
MS	Potassium, Total, ICAP	20	19.0	95.0	(80.00 - 120.00)	
MSD	Potassium, Total, ICAP	20	19.0	95.0	(80.00 - 120.00)	0.00

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

QC Batch #86697 Magnesium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1028239		(0.00 - 0.00)	
LCS1	Magnesium, Total, ICAP	20	20.2	101.0	(85.00 - 115.00)	
LCS2	Magnesium, Total, ICAP	20	20.1	100.5	(85.00 - 115.00)	0.50
MBLK	Magnesium, Total, ICAP	ND				
MS	Magnesium, Total, ICAP	20	19.2	96.0	(70.00 - 130.00)	
MSD	Magnesium, Total, ICAP	20	19.2	96.0	(70.00 - 130.00)	0.00

QC Batch #86700 Sodium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1028239		(0.00 - 0.00)	
LCS1	Sodium, Total, ICAP	50	51.5	103.0	(85.00 - 115.00)	
LCS2	Sodium, Total, ICAP	50	51.2	102.4	(85.00 - 115.00)	0.58
MBLK	Sodium, Total, ICAP	ND				
MS	Sodium, Total, ICAP	50	48.2	96.4	(70.00 - 130.00)	
MSD	Sodium, Total, ICAP	50	48.2	96.4	(70.00 - 130.00)	0.00

QC Batch #86701 Lab pH

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	lab # 98	1030239		(0.00 - 0.00)	

QC Batch #86713 Specific Conductance

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 98	1030236		(0.00 - 0.00)	

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining!
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory
QC Report
#48770

Foster Wheeler Environmental, Inc
(continued)

QC Batch #86732 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 98	1026102		(0.00 - 0.00)	
LCS1	Total Dissolved Solid (TDS)	175	176	100.6	(85.00 - 115.00)	
LCS2	Total Dissolved Solid (TDS)	700	672	96.0	(85.00 - 115.00)	
MBLK	Total Dissolved Solid (TDS)	ND				

QC Batch #86760 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab# 98	1028239		(0.00 - 0.00)	
LCS1	Chromium, Total, ICAP/MS	100	107	107.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	99	99.0	(85.00 - 115.00)	7.8
MBLK	Chromium, Total, ICAP/MS	ND				
MS	Chromium, Total, ICAP/MS	100	107	107.0	(70.00 - 130.00)	
MSD	Chromium, Total, ICAP/MS	100	99	99.0	(70.00 - 130.00)	7.8

QC Batch #86761 Lead, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab #98	1028239		(0.00 - 0.00)	
LCS1	Lead, Total, ICAP/MS	20.0	20.4	102.0	(85.00 - 115.00)	
LCS2	Lead, Total, ICAP/MS	20.0	19.8	99.0	(85.00 - 115.00)	3.0
MBLK	Lead, Total, ICAP/MS	ND				
MS	Lead, Total, ICAP/MS	20.0	21.6	108.0	(70.00 - 130.00)	
MSD	Lead, Total, ICAP/MS	20.0	20.1	100.5	(70.00 - 130.00)	7.2

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

QC Batch #86762 Iron, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1028239		(0.00 - 0.00)	
LCS1	Iron, Total, ICAP/MS	500	549	109.8	(85.00 - 115.00)	
LCS2	Iron, Total, ICAP/MS	500	484	96.8	(85.00 - 115.00)	13
MBLK	Iron, Total, ICAP/MS	ND				
MS	Iron, Total, ICAP/MS	500	545	109.0	(70.00 - 130.00)	
MSD	Iron, Total, ICAP/MS	500	483	96.6	(70.00 - 130.00)	12

QC Batch #86935 Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	8	8.30	103.8	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	8	8.20	102.5	(70.00 - 130.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	8	9.03	112.9	(70.00 - 130.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	8	8.16	102.0	(70.00 - 130.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	8	7.39	92.4	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MS	1,1-Dichloroethylene	8	9.17	114.6	(70.00 - 130.00)	
MSD	1,1-Dichloroethylene	8	8.95	111.9	(70.00 - 130.00)	2.4
MBLK	1,1-Dichloropropene	ND				
MBLK	1,2,3-Trichlorobenzene	ND				
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	8	8.30	103.8	(70.00 - 130.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	8	8.06	100.8	(70.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

LCS1	1,2-Dichloropropane	8	8.56	107.0	(70.00 - 130.00)	
MBLK	1,2-Dichloropropane	ND				
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	8	7.76	97.0	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
LCS1	p-Dichlorobenzene (1,4-DCB)	8	8.63	107.9	(70.00 - 130.00)	
MBLK	p-Dichlorobenzene (1,4-DCB)	ND				
MBLK	2,2-Dichloropropane	ND				
MBLK	2-Butanone (MEK)	ND				
MBLK	2-Chloroethylvinylether	ND				
MBLK	o-Chlorotoluene	ND				
MBLK	p-Chlorotoluene	ND				
MBLK	4-Methyl-2-Pentanone (MIBK)	ND				
MS	Spiked sample	Lab # 98	1028239		(0.00 - 0.00)	
LCS1	Benzene	8	8.61	107.6	(70.00 - 130.00)	
MBLK	Benzene	ND				
MS	Benzene	8	9.45	118.1	(70.00 - 130.00)	
MSD	Benzene	8	8.96	112.0	(70.00 - 130.00)	5.3
MBLK	Bromobenzene	ND				
MBLK	Bromomethane (Methyl Bromide)	ND				
LCS1	cis-1,2-Dichloroethylene	8	8.50	106.2	(70.00 - 130.00)	
MBLK	cis-1,2-Dichloroethylene	ND				
LCS1	Chlorobenzene	8	8.52	106.5	(70.00 - 130.00)	
MBLK	Chlorobenzene	ND				
MS	Chlorobenzene	8	9.20	115.0	(70.00 - 130.00)	
MSD	Chlorobenzene	8	9.10	113.8	(70.00 - 130.00)	1.1
LCS1	Carbon Tetrachloride	8	7.63	95.4	(70.00 - 130.00)	
MBLK	Carbon Tetrachloride	ND				
MBLK	cis-1,3-Dichloropropene	ND				
LCS1	Bromoform	8	7.18	89.8	(70.00 - 130.00)	
MBLK	Bromoform	ND				
LCS1	Chloroform (Trichloromethane)	8	8.75	109.4	(70.00 - 130.00)	
MBLK	Chloroform (Trichloromethane)	ND				
MBLK	Bromochloromethane	ND				
MBLK	Chloroethane	ND				
MBLK	Chloromethane(Methyl Chloride)	ND				
LCS1	Chlorodibromomethane	8	7.79	97.4	(70.00 - 130.00)	

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

MBLK	Chlorodibromomethane	ND				
MBLK	Dibromomethane	ND				
LCS1	Bromodichloromethane	8	8.40	105.0	(70.00 - 130.00)	
MBLK	Bromodichloromethane	ND				
LCS1	Dichloromethane	8	7.74	96.8	(70.00 - 130.00)	
MBLK	Dichloromethane	ND				
LCS1	Ethyl benzene	8	8.86	110.8	(70.00 - 130.00)	
MBLK	Ethyl benzene	ND				
MBLK	Dichlorodifluoromethane	ND				
LCS1	Fluorotrichloromethane-Freon11	4	4.44	111.0	(70.00 - 130.00)	
MBLK	Fluorotrichloromethane-Freon11	ND				
MBLK	Hexachlorobutadiene	ND				
MBLK	Isopropylbenzene	ND				
MBLK	m-Dichlorobenzene (1,3-DCB)	ND				
LCS1	m,p-Xylenes	16	17.7	110.6	(70.00 - 130.00)	
MBLK	m,p-Xylenes	ND				
MBLK	Naphthalene	ND				
MBLK	n-Butylbenzene	ND				
MBLK	n-Propylbenzene	ND				
LCS1	o-Xylene	8	8.88	111.0	(70.00 - 130.00)	
MBLK	o-Xylene	ND				
LCS1	o-Dichlorobenzene (1,2-DCB)	8	8.51	106.4	(70.00 - 130.00)	
MBLK	o-Dichlorobenzene (1,2-DCB)	ND				
LCS1	Tetrachloroethylene (PCE)	8	8.47	105.9	(70.00 - 130.00)	
MBLK	Tetrachloroethylene (PCE)	ND				
MBLK	p-Isopropyltoluene	ND				
MBLK	sec-Butylbenzene	ND				
LCS1	Styrene	8	5.89	73.6	(70.00 - 130.00)	
MBLK	Styrene	ND				
LCS1	1,2-dichloroethane-d4	100	101	101.0	(80.00 - 120.00)	
MBLK	1,2-dichloroethane-d4	100	99	99.0		
MS	1,2-dichloroethane-d4	100	94.4	94.4	(80.00 - 120.00)	
MSD	1,2-dichloroethane-d4	100	97.0	97.0	(80.00 - 120.00)	2.7
LCS1	Toluene-d8	100	98.2	98.2	(80.00 - 120.00)	
MBLK	Toluene-d8	100	102	102.0		
MS	Toluene-d8	100	95.6	95.6	(80.00 - 120.00)	
MSD	Toluene-d8	100	98.0	98.0	(80.00 - 120.00)	2.5

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory
QC Report
#48770

Foster Wheeler Environmental, Inc
(continued)

LCS1	4-Bromofluorobenzene	100	95.8	95.8	(80.00 - 120.00)	
MBLK	4-Bromofluorobenzene	100	100	100.0		
MS	4-Bromofluorobenzene	100	96.3	96.3	(80.00 - 120.00)	
MSD	4-Bromofluorobenzene	100	103	103.0	(80.00 - 120.00)	6.7
LCS1	trans-1,2-Dichloroethylene	8	7.69	96.1	(70.00 - 130.00)	
MBLK	trans-1,2-Dichloroethylene	ND				
MBLK	tert-Butylbenzene	ND				
LCS1	Trichloroethylene (TCE)	8	8.39	104.9	(70.00 - 130.00)	
MBLK	Trichloroethylene (TCE)	ND				
MS	Trichloroethylene (TCE)	8	9.03	112.9	(70.00 - 130.00)	
MSD	Trichloroethylene (TCE)	8	8.67	108.4	(70.00 - 130.00)	4.1
LCS1	Trichlorotrifluoroethane(Freon	4	4.14	103.5	(70.00 - 130.00)	
MBLK	Trichlorotrifluoroethane(Freon	ND				
MBLK	trans-1,3-Dichloropropene	ND				
LCS1	Toluene	8	8.35	104.4	(70.00 - 130.00)	
MBLK	Toluene	ND				
MS	Toluene	8	8.94	111.8	(70.00 - 130.00)	
MSD	Toluene	8	8.89	111.1	(70.00 - 130.00)	0.56
LCS1	Vinyl chloride (VC)	4	4.58	114.5	(70.00 - 130.00)	
MBLK	Vinyl chloride (VC)	ND				

QC Batch #86956 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 98	1012062		(0.00 - 0.00)	
LCS1	Total Dissolved Solid (TDS)	175	166	94.9	(85.00 - 115.00)	
LCS2	Total Dissolved Solid (TDS)	700	662	94.6	(85.00 - 115.00)	
MBLK	Total Dissolved Solid (TDS)	ND				

QC Batch #86969 Alkalinity

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1028024		(0.00 - 0.00)	
LCS1	Alkalinity	96.2	97.0	100.8	(90.00 - 110.00)	
LCS2	Alkalinity	96.2	97.8	101.7	(90.00 - 110.00)	0.82

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

MBLK	Alkalinity	ND				
MS	Alkalinity	96.2	89.0	92.5	(80.00 - 120.00)	
MSD	Alkalinity	96.2	88.0	91.5	(80.00 - 120.00)	1.1

QC Batch #87003 Arsenic, Total, GF

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab #98	1028239		(0.00 - 0.00)	
LCS1	Arsenic, Total, GF	0.020	0.0216	108.0	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.0220	110.0	(85.00 - 115.00)	1.8
MBLK	Arsenic, Total, GF	ND				
MS	Arsenic, Total, GF	0.020	0.0232	116.0	(70.00 - 130.00)	
MSD	Arsenic, Total, GF	0.020	0.0227	113.5	(70.00 - 130.00)	2.2

QC Batch #87095 Perchlorate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1028240		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	20.5	102.5	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	21.1	105.5	(90.00 - 110.00)	2.9
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	18.3	91.5	(75.00 - 125.00)	
MSD	Perchlorate	20.0	18.8	94.0	(75.00 - 125.00)	2.7

QC Batch #87108 Perchlorate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1102362		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	21.3	106.5	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	21.0	105.0	(90.00 - 110.00)	1.4
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	21.9	109.5	(75.00 - 125.00)	
MSD	Perchlorate	20.0	24.1	120.5	(75.00 - 125.00)	9.6

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES

November 18, 1998

Foster Wheeler Environmental
611 Anton Blvd Suite 800
Costa Mesa, CA.92626

Attention: Mark Cutler

Re: Report # 48793 (MW-984-092, -091, -012, -011, -010, -007)

Dear Mark,

Enclosed please find data deliverables for the recent JPL project. A detailed quality control (QC) summary follows:

Non-conformance (LCS, MS/MSD, Surrogates, and Holding Times):
None
Samples requiring dilution (with increased MRL's):
Diluted for anions: MW-984-010, -011
Method blanks with compounds detected:
None
Other Comments:
Dichloromethane was detected in sample ID: MW-984-091
TICS:
None
Method Variance:
None

Sincerely,

Debbie Frank
Project Manager

cc: Judy Novelly (JPL)

a Division of Montgomery Watson Americas, Inc.

555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400
Fax: 626 568 6324

4820 South Mill Avenue
Suite 202
Tempe, Arizona 85282
Tel: 602 755 8201
Fax: 602 755 8203

Quality Environmental Analysis

Montgomery Watson Laboratories
, Los Angeles, CA 90051-3508
PHONE: 626-568-6400/FAX: 626-568-6324

ACKNOWLEDGMENT OF SAMPLES RECEIVED

Foster Wheeler Environmental, Inc
611 Anton Boulevard
Suite 800
Costa Mesa, CA 92626
Attn: Mark Cutler

Customer Code: ENSERCH
PO#: Sub PO#007618-0004
Group#: 48793
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

The following samples were received from you on 10/30/98. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using Montgomery Watson Laboratories.

Sample#	Sample Id	Tests Scheduled		Matrix			Sample Date
981030234	MW-984-092			Water			10/30/98
		@EBASVOA					
981030235	MW-984-091			Water			10/30/98
		@EBASVOA	CR-EBAS	AS-EBAS	PB-EBAS	CR-VI	
		CLO4					
981030236	MW-984-012			Water			10/30/98
		@EBASVOA	CR-EBAS	AS-EBAS	PB-EBAS	TDS	
		CATION1	ANION1	PH	EC	HCO3	CO3
		ALK	NO3	SO4	CL	FE-MS	K
		NA	MG	CA	CR-VI	CLO4	
981030237	MW-984-011			Water			10/30/98
		@EBASVOA	CLO4	CR-VI	CA	MG	
		NA	K	FE-MS	CL	SO4	NO3
		ALK	CO3	HCO3	EC	PH	ANION
		CATION1	TDS	PB-EBAS	AS-EBAS	CR-EBAS	
981030238	MW-984-010			Water			10/30/98
		@EBASVOA	CLO4	CR-VI	CA	MG	
		NA	K	FE-MS	CL	SO4	NO3
		ALK	CO3	HCO3	EC	PH	ANION
		CATION1	TDS	PB-EBAS	AS-EBAS	CR-EBAS	
981030239	MW-984-007			Water			10/30/98
		@EBASVOA	CLO4	CR-VI	CA	MG	
		NA	K	FE-MS	CL	SO4	NO3
		ALK	CO3	HCO3	EC	PH	ANION
		CATION1	TDS	PB-EBAS	AS-EBAS	CR-EBAS	

Test Acronym Description

Test Acronym	Description
@EBASVOA	Regulated VOCs plus Lists 1&3
ALK	Alkalinity
ANION1	Anion Sum

Foster Wheeler Environmental, Inc
611 Anton Boulevard
Suite 800
Costa Mesa, CA 92626
Attn: Mark Cutler

Customer Code: ENSERCH
PO#: Sub PO#007618-0004
Group#: 48793
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

Test Acronym Description

Test Acronym	Description
AS-EBAS	Arsenic, Total, GF
CA	Calcium, Total, ICAP
CATION1	Cation Sum
CL	Chloride
CLO4	Perchlorate
CO3	Carbonate as CO3, Calculated
CR-EBAS	Chromium, Total, ICAP/MS
CR-VI	Hexavalent chromium (Cr VI)
EC	Specific Conductance
FE-MS	Iron, Total, ICAP/MS
HCO3	Bicarbonate as HCO3,calculated
K	Potassium, Total, ICAP
MG	Magnesium, Total, ICAP
NA	Sodium, Total, ICAP
NO3	Nitrate-N by IC
PB-EBAS	Lead, Total, ICAP/MS
PH	Lab pH
SO4	Sulfate
TDS	Total Dissolved Solid (TDS)

NUMBER 2705

48793

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

PROJECT: JPL

OFS NO.: 1572.0260

PROJECT ADDRESS: 4800 OAK GROVE DR PASADENA CA

SAMPLER (Name): B. DUMENSIL

SAMPLER (Signature): [illegible]

LABORATORY: MONTGOMERY WATSON LABS

REPORTS TO BE SENT TO: MR MARK CUTLER

HAZARD IDENTIFICATION: Non Hazard ☒ Reactive ☐ Flammable ☐ Toxic ☐ Skin Irritant ☐ Infectious ☐

TIME REQUIRED: NORMAL ☒ ___ DAYS; RUSH ☐ ___ DAYS

ANALYSES REQUIRED

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL: WATER	SOIL	OTHER (Describe)	VOCs (5242)	TOTAL AS, Cr, Pb (6010/7000)	MAJOR ANIONS + TDS	HEX Cr	PERCHLORATE	MS FOR VOCs	MSD FOR VOCs	MS/MSD FOR METALS	QC FOR Cr 6
MW-984-092	0900	10/30/98	2	2x40ml	X			X								
MW-984-091	1020	↓	5	2x40ml 1x250ml 2x125ml	X			X	X		X	X				
MW-984-012	0920	↓	6	2x40ml 1x250ml 2x125ml 1x500ml	X			X	X	X	X	X				
MW-984-011	1040	↓	6	↓	X			X	X	X	X	X				
MW-984-010	1140	↓	6	2x40ml 2x500ml 2x125ml	X			X	X	X	X	X			X	
MW-984-010MS	1140	↓	2	2x40ml	X								X			
MW-984-010MSD	1140	↓	2	2x40ml	X									X		
MW-984-007	1245	↓	6	2x40ml 1x250ml 2x125ml 1x500ml	X			X	X	X	X	X				X

LABORATORY INSTRUCTIONS/COMMENTS

LEVEL IV QA/QC

RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)	RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)
Bretta Dumensil	10/30/98	[illegible]			
COMPANY: (FWEC)	TIME: 1330	COMPANY: MWL	COMPANY	TIME	COMPANY

MONTGOMERY LABORATORIES COOLER RECEIPT FORM

PROJECT: ENSERCH Date Received: 10-30-98

Use other side of this form to note further details concerning check-in problems and to describe any action(s) regarding the resolution(s) of problems.

A. PRELIMINARY EXAMINATION: Date cooler opened: 10-30-98

by (print) Mike Chheang (sign) [signature]

1. Did cooler come with shipping slip (air bill, etc.)? Yes **No**
   If YES, attach & enter carrier and air bill # here: _____

2. Were custody seals on outside of cooler? **Yes** No
   If YES, how many & where: 2 outside cooler
   If Yes, enter the following: seal date: BD 10-30-98 MC seal name: BD

3. Were custody seals unbroken & intact at delivery? **Yes** No

4. Were custody papers sealed in bag & taped to lid? Yes **No**

5. Were custody papers filled out properly (ink, etc.) **Yes** No

6. Did you sign custody papers in appropriate place? **Yes** No

7. Was project identifiable from custody papers? **Yes** No

8. Have designated person(s) initial to acknowledge receipt: yes (date) 10-30-98

B. LOG-IN PHASE: Date samples were logged-in: 10-30-98 by:
(print) Mike Chheang (sign) [signature]

9. Describe packing:

10. If required, was enough ice used? **Yes** No

11. Were all bottles sealed in separate plastic bags? **Yes** No

12. Did all bottles arrive unbroken/in good condition? **Yes** No

13. Were all bottle labels complete (ID,date,sign,pres)? **Yes** No

14. Did all bottle labels agree with custody papers? **Yes** No
    If NO, indicate descrepancies on back.

15. Were correct containers useed for the analytes? **Yes** No

16. Were correct preservatives used when required? **Yes** No

17. Was sufficient amount of sample sent for tests? **Yes** No

18. Bubbles absent in VOA vials? **Yes** No
    If NO, list by sample id on back.

19. Was Client Services informed of problems? Yes **No**

Report Summary of positive results, PR48793

			Result	MDL	UNITS
Analyzed	981030234	MW-984-092			
Analyzed	981030235	MW-984-091			
11/04/98	Dichloromethane		1.3	.500	UGL
Analyzed	981030236	MW-984-012			
11/03/98	Alkalinity		165	2.000	MGL
11/10/98	Anion Sum		4.03	.001	MEQL
11/10/98	Bicarbonate as HCO3,calculated		201	.001	MGL
11/02/98	Calcium, Total, ICAP		33.9	1.000	MGL
11/10/98	Carbonate as CO3, Calculated		1.04	.001	MGL
11/09/98	Cation Sum		4.08	.001	MEQL
10/31/98	Chloride		9.05	1.000	MGL
11/02/98	Iron, Total, ICAP/MS		390	******	UGL
11/02/98	Lab pH		7.9	.001	UNIT
11/02/98	Magnesium, Total, ICAP		9.37	.100	MGL
10/31/98	Nitrate-N by IC		1.27	.100	MGL
11/02/98	Potassium, Total, ICAP		1.77	1.000	MGL
11/02/98	Sodium, Total, ICAP		36.0	1.000	MGL
11/03/98	Specific Conductance		370	4.000	UMHO
10/31/98	Sulfate		18.3	2.000	MGL
11/05/98	Total Dissolved Solid (TDS)		210	10.000	MGL
Analyzed	981030237	MW-984-011			
11/03/98	Alkalinity		154	2.000	MGL
11/10/98	Anion Sum		3.97	.001	MEQL
11/10/98	Bicarbonate as HCO3,calculated		187	.001	MGL
11/02/98	Calcium, Total, ICAP		28.2	1.000	MGL
11/10/98	Carbonate as CO3, Calculated		1.22	.001	MGL
11/09/98	Cation Sum		4.01	.001	MEQL
10/31/98	Chloride		14.9	2.000	MGL
11/02/98	Iron, Total, ICAP/MS		2000	******	UGL
11/02/98	Lab pH		8.0	.001	UNIT
11/02/98	Magnesium, Total, ICAP		10.1	.100	MGL
10/31/98	Nitrate-N by IC		4.56	.200	MGL
11/02/98	Potassium, Total, ICAP		1.67	1.000	MGL
11/02/98	Sodium, Total, ICAP		39.6	1.000	MGL
11/03/98	Specific Conductance		410	4.000	UMHO
10/31/98	Sulfate		7.10	4.000	MGL
11/05/98	Total Dissolved Solid (TDS)		250	10.000	MGL
Analyzed	981030238	MW-984-010			
11/03/98	Alkalinity		142	2.000	MGL
11/10/98	Anion Sum		4.24	.001	MEQL
11/10/98	Bicarbonate as HCO3,calculated		172	.001	MGL
11/02/98	Calcium, Total, ICAP		32.2	1.000	MGL
11/10/98	Carbonate as CO3, Calculated		1.77	.001	MGL
11/09/98	Cation Sum		4.22	.001	MEQL
10/31/98	Chloride		24.6	2.000	MGL
11/02/98	Lab pH		8.2	.001	UNIT
11/02/98	Magnesium, Total, ICAP		13.3	.100	MGL

10/31/98	Nitrate-N by IC	6.58	.200	MGL
11/02/98	Potassium, Total, ICAP	1.89	1.000	MGL
11/02/98	Sodium, Total, ICAP	33.8	1.000	MGL
11/03/98	Specific Conductance	430	4.000	UMHO
10/31/98	Sulfate	11.1	4.000	MGL
11/05/98	Total Dissolved Solid (TDS)	240	10.000	MGL

Analyzed 981030239 MW-984-007

11/03/98	Alkalinity	130	2.000	MGL
11/10/98	Anion Sum	3.16	.001	MEQL
11/10/98	Bicarbonate as HCO3,calculated	159	.001	MGL
11/02/98	Calcium, Total, ICAP	31.1	1.000	MGL
11/10/98	Carbonate as CO3, Calculated	0.164	.001	MGL
11/09/98	Cation Sum	3.23	.001	MEQL
10/31/98	Chloride	4.55	1.000	MGL
11/02/98	Iron, Total, ICAP/MS	385	******	UGL
11/02/98	Lab pH	7.2	.001	UNIT
11/02/98	Magnesium, Total, ICAP	10.3	.100	MGL
10/31/98	Nitrate-N by IC	0.69	.100	MGL
11/02/98	Potassium, Total, ICAP	2.26	1.000	MGL
11/02/98	Sodium, Total, ICAP	17.8	1.000	MGL
11/03/98	Specific Conductance	315	4.000	UMHO
10/31/98	Sulfate	18.5	2.000	MGL
11/05/98	Total Dissolved Solid (TDS)	180	10.000	MGL

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory Report

for

Foster Wheeler Environmental, Inc
611 Anton Boulevard

Suite 800

Costa Mesa , CA 92626

Attention: Mark Cutler
Fax: (714)444-5560

MONTGOMERY WATSON LABS.
SUBMITTED ON
NOV 13 1998

DEB* Debbie Frank

Report#: 48793
JPL

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory Report #48793

Foster Wheeler Environmental, Inc
Mark Cutler
611 Anton Boulevard
Suite 800
Costa Mesa , CA 92626

Samples Received
30-oct-1998 13:49:40

MW-984-092 (981030234) Sampled on 10/30/98

Regulated VOCs plus Lists 1&3

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	11/04/98	86927	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	11/04/98	86927	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	11/04/98	86927	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory
Report
#48793

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	11/04/98	86927	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	109	% Rec		
			(Surrogate)	4-Bromofluorobenzene	96	% Rec		
			(Surrogate)	Toluene-d8	100	% Rec		

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-984-091 (981030235) Sampled on 10/30/98								
11/02/98	11/05/98	87003	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	11/10/98	87095	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
11/02/98	11/02/98	86760	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	10/30/98	86633	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
11/02/98	11/02/98	86761	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
			Regulated VOCs plus Lists 1&3					
	11/04/98	86927	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	11/04/98	86927	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	11/04/98	86927	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory
Report
#48793

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	11/04/98	86927	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Dichloromethane	1.3	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	103	% Rec		
			(Surrogate)	4-Bromofluorobenzene	106	% Rec		

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
			(Surrogate)	Toluene-d8	103	% Rec		
MW-984-012 (981030236)			**Sampled on 10/30/98**					
	11/03/98	86969	(ML/S2320B)	Alkalinity	165	mg/l	2.0	1
	11/10/98		(ML/SM1040)	Anion Sum	4.03	meq/l	0.0010	1
11/02/98	11/05/98	87003	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
11/02/98	11/02/98	86693	(EPA/ML 200.7)	Calcium, Total, ICAP	33.9	mg/l	1.0	1
	11/09/98		(ML/SM1040)	Cation Sum	4.08	meq/l	0.0010	1
	10/31/98	86675	(ML/EPA 300)	Chloride	9.05	mg/l	1.0	1
	11/10/98	87095	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	11/10/98		(ML/S2320-B)	Carbonate as CO3, Calculated	1.04	mg/l	0.0010	1
11/02/98	11/02/98	86760	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	10/30/98	86633	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	11/03/98	86713	(ML/S2510B)	Specific Conductance	370	umho/cm	4.0	1
11/02/98	11/02/98	86762	(EPA/ML 200.8)	Iron, Total, ICAP/MS	390	ug/l	100	1
	11/10/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	201	mg/l	0.0010	1
11/02/98	11/02/98	86695	(ML/EPA 200.7)	Potassium, Total, ICAP	1.77	mg/l	1.0	1
11/02/98	11/02/98	86697	(ML/EPA 200.7)	Magnesium, Total, ICAP	9.37	mg/l	0.10	1
11/02/98	11/02/98	86700	(ML/EPA 200.7)	Sodium, Total, ICAP	36.0	mg/l	1.0	1
	10/31/98	86677	(ML/EPA 300.0)	Nitrate-N by IC	1.27	mg/l	0.10	1
11/02/98	11/02/98	86761	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	11/02/98	86662	(ML/SM 4500H)	Lab pH	7.9	Units	0.0010	1
	10/31/98	86679	(ML/EPA 300.0)	Sulfate	18.3	mg/l	2.0	1
	11/05/98	86956	(ML/S2540C)	Total Dissolved Solid (TDS)	210	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	11/04/98	86927	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	11/04/98	86927	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	11/04/98	86927	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	11/04/98	86927	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	11/04/98	86927	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	113	% Rec		
			(Surrogate)	4-Bromofluorobenzene	96	% Rec		
			(Surrogate)	Toluene-d8	96	% Rec		

MW-984-011 (981030237) Sampled on 10/30/98

	11/03/98	86969	(ML/S2320B)	Alkalinity	154	mg/l	2.0	1
	11/10/98		(ML/SM1040)	Anion Sum	3.97	meq/l	0.0010	1
11/02/98	11/05/98	87003	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
11/02/98	11/02/98	86693	(EPA/ML 200.7)	Calcium, Total, ICAP	28.2	mg/l	1.0	1
	11/09/98		(ML/SM1040)	Cation Sum	4.01	meq/l	0.0010	1
	10/31/98	86675	(ML/EPA 300)	Chloride	14.9	mg/l	2.0	2
	11/10/98	87095	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	11/10/98		(ML/S2320-B)	Carbonate as CO3, Calculated	1.22	mg/l	0.0010	1
11/02/98	11/02/98	86760	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	10/30/98	86633	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	11/03/98	86714	(ML/S2510B)	Specific Conductance	410	umho/cm	4.0	1
11/02/98	11/02/98	86762	(EPA/ML 200.8)	Iron, Total, ICAP/MS	2000	ug/l	100	1
	11/10/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	187	mg/l	0.0010	1
11/02/98	11/02/98	86695	(ML/EPA 200.7)	Potassium, Total, ICAP	1.67	mg/l	1.0	1
11/02/98	11/02/98	86697	(ML/EPA 200.7)	Magnesium, Total, ICAP	10.1	mg/l	0.10	1
11/02/98	11/02/98	86700	(ML/EPA 200.7)	Sodium, Total, ICAP	39.6	mg/l	1.0	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory Report #48793

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	10/31/98	86677	(ML/EPA 300.0)	Nitrate-N by IC	4.56	mg/l	0.20	2
11/02/98	11/02/98	86761	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	11/02/98	86662	(ML/SM 4500H)	Lab pH	8.0	Units	0.0010	1
	10/31/98	86679	(ML/EPA 300.0)	Sulfate	7.10	mg/l	4.0	2
	11/05/98	86956	(ML/S2540C)	Total Dissolved Solid (TDS)	250	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	11/04/98	86927	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	11/04/98	86927	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	11/04/98	86927	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	11/04/98	86927	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	117	% Rec		
			(Surrogate)	4-Bromofluorobenzene	94	% Rec		
			(Surrogate)	Toluene-d8	103	% Rec		

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory
Report
#48793

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-984-010 (981030238) Sampled on 10/30/98								
	11/03/98	86969	(ML/S2320B)	Alkalinity	142	mg/l	2.0	1
	11/10/98		(ML/SM1040)	Anion Sum	4.24	meq/l	0.0010	1
11/02/98	11/05/98	87003	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
11/02/98	11/02/98	86693	(EPA/ML 200.7)	Calcium, Total, ICAP	32.2	mg/l	1.0	1
	11/09/98		(ML/SM1040)	Cation Sum	4.22	meq/l	0.0010	1
	10/31/98	86675	(ML/EPA 300)	Chloride	24.6	mg/l	2.0	2
	11/11/98	87095	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	11/10/98		(ML/S2320-B)	Carbonate as CO3, Calculated	1.77	mg/l	0.0010	1
11/02/98	11/02/98	86760	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	10/30/98	86633	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	11/03/98	86714	(ML/S2510B)	Specific Conductance	430	umho/cm	4.0	1
11/02/98	11/02/98	86762	(EPA/ML 200.8)	Iron, Total, ICAP/MS	ND	ug/l	100	1
	11/10/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	172	mg/l	0.0010	1
11/02/98	11/02/98	86695	(ML/EPA 200.7)	Potassium, Total, ICAP	1.89	mg/l	1.0	1
11/02/98	11/02/98	86697	(ML/EPA 200.7)	Magnesium, Total, ICAP	13.3	mg/l	0.10	1
11/02/98	11/02/98	86700	(ML/EPA 200.7)	Sodium, Total, ICAP	33.8	mg/l	1.0	1
	10/31/98	86677	(ML/EPA 300.0)	Nitrate-N by IC	6.58	mg/l	0.20	2
11/02/98	11/02/98	86761	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	11/02/98	86662	(ML/SM 4500H)	Lab pH	8.2	Units	0.0010	1
	10/31/98	86679	(ML/EPA 300.0)	Sulfate	11.1	mg/l	4.0	2
	11/05/98	86956	(ML/S2540C)	Total Dissolved Solid (TDS)	240	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	11/06/98	87019	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	11/06/98	87019	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	11/06/98	87019	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	11/06/98	87019	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	11/06/98	87019	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	105	% Rec		
			(Surrogate)	4-Bromofluorobenzene	98	% Rec		
			(Surrogate)	Toluene-d8	100	% Rec		

MW-984-007 (981030239) Sampled on 10/30/98

	11/03/98	86970	(ML/S2320B)	Alkalinity	130	mg/l	2.0	1
	11/10/98		(ML/SM1040)	Anion Sum	3.16	meq/l	0.0010	1
11/02/98	11/05/98	87003	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
11/02/98	11/02/98	86693	(EPA/ML 200.7)	Calcium, Total, ICAP	31.1	mg/l	1.0	1
	11/09/98		(ML/SM1040)	Cation Sum	3.23	meq/l	0.0010	1
	10/31/98	86675	(ML/EPA 300)	Chloride	4.55	mg/l	1.0	1
	11/11/98	87096	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	11/10/98		(ML/S2320-B)	Carbonate as CO3, Calculated	0.164	mg/l	0.0010	1
11/02/98	11/02/98	86760	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	10/30/98	86633	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	11/03/98	86714	(ML/S2510B)	Specific Conductance	315	umho/cm	4.0	1
11/02/98	11/02/98	86762	(EPA/ML 200.8)	Iron, Total, ICAP/MS	385	ug/l	100	1
	11/10/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	159	mg/l	0.0010	1
11/02/98	11/02/98	86695	(ML/EPA 200.7)	Potassium, Total, ICAP	2.26	mg/l	1.0	1
11/02/98	11/02/98	86697	(ML/EPA 200.7)	Magnesium, Total, ICAP	10.3	mg/l	0.10	1
11/02/98	11/02/98	86700	(ML/EPA 200.7)	Sodium, Total, ICAP	17.8	mg/l	1.0	1
	10/31/98	86677	(ML/EPA 300.0)	Nitrate-N by IC	0.69	mg/l	0.10	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
11/02/98	11/02/98	86761	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	11/02/98	86662	(ML/SM 4500H)	Lab pH	7.2	Units	0.0010	1
	10/31/98	86679	(ML/EPA 300.0)	Sulfate	18.5	mg/l	2.0	1
	11/05/98	86956	(ML/S2540C)	Total Dissolved Solid (TDS)	180	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	11/04/98	86927	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	11/04/98	86927	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	11/04/98	86927	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	11/04/98	86927	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	11/04/98	86927	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	114	% Rec		
			(Surrogate)	4-Bromofluorobenzene	98	% Rec		
			(Surrogate)	Toluene-d8	105	% Rec		

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory QC Report #48793

Foster Wheeler Environmental, Inc

QC Batch #86633 Hexavalent chromium (Cr VI)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1030239		(0.00 - 0.00)	
LCS1	Hexavalent chromium (Cr VI)	0.050	0.0506	101.2	(78.00 - 118.00)	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.0506	101.2	(78.00 - 118.00)	0.00
MBLK	Hexavalent chromium (Cr VI)	ND				
MS	Hexavalent chromium (Cr VI)	0.050	0.0500	100.0	(80.00 - 120.00)	
MSD	Hexavalent chromium (Cr VI)	0.050	0.0506	101.2	(80.00 - 120.00)	1.2

QC Batch #86662 Lab pH

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	lab # 98	1030239		(0.00 - 0.00)	

QC Batch #86675 Chloride

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1029374		(0.00 - 0.00)	
LCS1	Chloride	25	26.0	104.0	(90.00 - 110.00)	
LCS2	Chloride	25	26.0	104.0	(90.00 - 110.00)	0.00
MBLK	Chloride	ND				
MS	Chloride	25	26.3	105.2	(80.00 - 120.00)	
MSD	Chloride	25	26.4	105.6	(80.00 - 120.00)	0.38

QC Batch #86677 Nitrate-N by IC

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1029374		(0.00 - 0.00)	
LCS1	Nitrate-N by IC	2.5	2.59	103.6	(90.00 - 110.00)	
LCS2	Nitrate-N by IC	2.5	2.57	102.8	(90.00 - 110.00)	0.78
MBLK	Nitrate-N by IC	ND				
MS	Nitrate-N by IC	2.5	2.28	91.2	(80.00 - 120.00)	
MSD	Nitrate-N by IC	2.5	2.29	91.6	(80.00 - 120.00)	0.44

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory
QC Report
#48793

Foster Wheeler Environmental, Inc
(continued)

QC Batch #86679 Sulfate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1029374		(0.00 - 0.00)	
LCS1	Sulfate	50	51.3	102.6	(90.00 - 110.00)	
LCS2	Sulfate	50	51.5	103.0	(90.00 - 110.00)	0.39
MBLK	Sulfate	ND				
MS	Sulfate	50	52.5	105.0	(80.00 - 120.00)	
MSD	Sulfate	50	52.8	105.6	(80.00 - 120.00)	0.57

QC Batch #86693 Calcium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1028239		(0.00 - 0.00)	
LCS1	Calcium, Total, ICAP	50	56.8	113.6	(85.00 - 115.00)	
LCS2	Calcium, Total, ICAP	50	56.5	113.0	(85.00 - 115.00)	0.53
MBLK	Calcium, Total, ICAP	ND				
MS	Calcium, Total, ICAP	50	47.1	94.2	(70.00 - 130.00)	
MSD	Calcium, Total, ICAP	50	47.2	94.4	(70.00 - 130.00)	0.21

QC Batch #86695 Potassium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1028239		(0.00 - 0.00)	
LCS1	Potassium, Total, ICAP	20	19.6	98.0	(80.00 - 110.00)	
LCS2	Potassium, Total, ICAP	20	19.4	97.0	(80.00 - 110.00)	1.0
MBLK	Potassium, Total, ICAP	ND				
MS	Potassium, Total, ICAP	20	19.0	95.0	(80.00 - 120.00)	
MSD	Potassium, Total, ICAP	20	19.0	95.0	(80.00 - 120.00)	0.00

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

QC Batch #86697 Magnesium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1028239		(0.00 - 0.00)	
LCS1	Magnesium, Total, ICAP	20	20.2	101.0	(85.00 - 115.00)	
LCS2	Magnesium, Total, ICAP	20	20.1	100.5	(85.00 - 115.00)	0.50
MBLK	Magnesium, Total, ICAP	ND				
MS	Magnesium, Total, ICAP	20	19.2	96.0	(70.00 - 130.00)	
MSD	Magnesium, Total, ICAP	20	19.2	96.0	(70.00 - 130.00)	0.00

QC Batch #86700 Sodium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1028239		(0.00 - 0.00)	
LCS1	Sodium, Total, ICAP	50	51.5	103.0	(85.00 - 115.00)	
LCS2	Sodium, Total, ICAP	50	51.2	102.4	(85.00 - 115.00)	0.58
MBLK	Sodium, Total, ICAP	ND				
MS	Sodium, Total, ICAP	50	48.2	96.4	(70.00 - 130.00)	
MSD	Sodium, Total, ICAP	50	48.2	96.4	(70.00 - 130.00)	0.00

QC Batch #86713 Specific Conductance

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 98	1030236		(0.00 - 0.00)	

QC Batch #86714 Specific Conductance

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 98	1030239		(0.00 - 0.00)	

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory
QC Report
#48793

Foster Wheeler Environmental, Inc
(continued)

QC Batch #86760 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab# 98	1028239		(0.00 - 0.00)	
LCS1	Chromium, Total, ICAP/MS	100	107	107.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	99	99.0	(85.00 - 115.00)	7.8
MBLK	Chromium, Total, ICAP/MS	ND				
MS	Chromium, Total, ICAP/MS	100	107	107.0	(70.00 - 130.00)	
MSD	Chromium, Total, ICAP/MS	100	99	99.0	(70.00 - 130.00)	7.8

QC Batch #86761 Lead, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab #98	1028239		(0.00 - 0.00)	
LCS1	Lead, Total, ICAP/MS	20.0	20.4	102.0	(85.00 - 115.00)	
LCS2	Lead, Total, ICAP/MS	20.0	19.8	99.0	(85.00 - 115.00)	3.0
MBLK	Lead, Total, ICAP/MS	ND				
MS	Lead, Total, ICAP/MS	20.0	21.6	108.0	(70.00 - 130.00)	
MSD	Lead, Total, ICAP/MS	20.0	20.1	100.5	(70.00 - 130.00)	7.2

QC Batch #86762 Iron, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1028239		(0.00 - 0.00)	
LCS1	Iron, Total, ICAP/MS	500	549	109.8	(85.00 - 115.00)	
LCS2	Iron, Total, ICAP/MS	500	484	96.8	(85.00 - 115.00)	13
MBLK	Iron, Total, ICAP/MS	ND				
MS	Iron, Total, ICAP/MS	500	545	109.0	(70.00 - 130.00)	
MSD	Iron, Total, ICAP/MS	500	483	96.6	(70.00 - 130.00)	12

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory
QC Report
#48793

Foster Wheeler Environmental, Inc
(continued)

QC Batch #86927 Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	8	7.70	96.2	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	8	7.74	96.8	(70.00 - 130.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	8	7.63	95.4	(70.00 - 130.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	8	7.49	93.6	(70.00 - 130.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	8	7.86	98.2	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MS	1,1-Dichloroethylene	8	9.17	114.6	(70.00 - 130.00)	
MSD	1,1-Dichloroethylene	8	8.95	111.9	(70.00 - 130.00)	2.4
MBLK	1,1-Dichloropropene	ND				
MBLK	1,2,3-Trichlorobenzene	ND				
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	8	8.07	100.9	(70.00 - 130.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	8	7.68	96.0	(70.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	8	7.91	98.9	(70.00 - 130.00)	
MBLK	1,2-Dichloropropane	ND				
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	16	15.1	94.4	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
LCS1	p-Dichlorobenzene (1,4-DCB)	8	8.41	105.1	(70.00 - 130.00)	
MBLK	p-Dichlorobenzene (1,4-DCB)	ND				
MBLK	2,2-Dichloropropane	ND				
MBLK	2-Butanone (MEK)	ND				
MBLK	2-Chloroethylvinylether	ND				
MBLK	o-Chlorotoluene	ND				

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory
QC Report
#48793

Foster Wheeler Environmental, Inc
(continued)

MBLK	p-Chlorotoluene	ND				
MBLK	4-Methyl-2-Pentanone (MIBK)	ND				
MS	Spiked sample	Lab # 98	1028239		(0.00 - 0.00)	
LCS1	Benzene	8	7.50	93.8	(70.00 - 130.00)	
MBLK	Benzene	ND				
MS	Benzene	8	9.45	118.1	(70.00 - 130.00)	
MSD	Benzene	8	8.96	112.0	(70.00 - 130.00)	5.3
MBLK	Bromobenzene	ND				
MBLK	Bromomethane (Methyl Bromide)	ND				
LCS1	cis-1,2-Dichloroethylene	8	7.96	99.5	(70.00 - 130.00)	
MBLK	cis-1,2-Dichloroethylene	ND				
LCS1	Chlorobenzene	8	8.03	100.4	(70.00 - 130.00)	
MBLK	Chlorobenzene	ND				
MS	Chlorobenzene	8	9.20	115.0	(70.00 - 130.00)	
MSD	Chlorobenzene	8	9.10	113.8	(70.00 - 130.00)	1.1
LCS1	Carbon Tetrachloride	8	7.61	95.1	(70.00 - 130.00)	
MBLK	Carbon Tetrachloride	ND				
MBLK	cis-1,3-Dichloropropene	ND				
LCS1	Bromoform	8	7.18	89.8	(70.00 - 130.00)	
MBLK	Bromoform	ND				
LCS1	Chloroform (Trichloromethane)	8	7.60	95.0	(70.00 - 130.00)	
MBLK	Chloroform (Trichloromethane)	ND				
MBLK	Bromochloromethane	ND				
MBLK	Chloroethane	ND				
MBLK	Chloromethane(Methyl Chloride)	ND				
LCS1	Chlorodibromomethane	8	7.36	92.0	(70.00 - 130.00)	
MBLK	Chlorodibromomethane	ND				
MBLK	Dibromomethane	ND				
LCS1	Bromodichloromethane	8	7.63	95.4	(70.00 - 130.00)	
MBLK	Bromodichloromethane	ND				
LCS1	Dichloromethane	8	7.12	89.0	(70.00 - 130.00)	
MBLK	Dichloromethane	ND				
LCS1	Ethyl benzene	8	7.66	95.8	(70.00 - 130.00)	
MBLK	Ethyl benzene	ND				
MBLK	Dichlorodifluoromethane	ND				
LCS1	Fluorotrichloromethane-Freon11	4	4.46	111.5	(70.00 - 130.00)	
MBLK	Fluorotrichloromethane-Freon11	ND				

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

MBLK	Hexachlorobutadiene	ND				
MBLK	Isopropylbenzene	ND				
MBLK	m-Dichlorobenzene (1,3-DCB)	ND				
LCS1	m,p-Xylenes	16	16.1	100.6	(70.00 - 130.00)	
MBLK	m,p-Xylenes	ND				
MBLK	Naphthalene	ND				
MBLK	n-Butylbenzene	ND				
MBLK	n-Propylbenzene	ND				
LCS1	o-Xylene	8	7.68	96.0	(70.00 - 130.00)	
MBLK	o-Xylene	ND				
LCS1	o-Dichlorobenzene (1,2-DCB)	8	7.70	96.2	(70.00 - 130.00)	
MBLK	o-Dichlorobenzene (1,2-DCB)	ND				
LCS1	Tetrachloroethylene (PCE)	8	7.67	95.9	(70.00 - 130.00)	
MBLK	Tetrachloroethylene (PCE)	ND				
MBLK	p-Isopropyltoluene	ND				
MBLK	sec-Butylbenzene	ND				
LCS1	Styrene	8	7.40	92.5	(70.00 - 130.00)	
MBLK	Styrene	ND				
LCS1	1,2-dichloroethane-d4	100	104	104.0	(80.00 - 120.00)	
MBLK	1,2-dichloroethane-d4	100	103	103.0		
MS	1,2-dichloroethane-d4	100	94.4	94.4	(80.00 - 120.00)	
MSD	1,2-dichloroethane-d4	100	97.0	97.0	(80.00 - 120.00)	2.7
LCS1	Toluene-d8	100	104	104.0	(80.00 - 120.00)	
MBLK	Toluene-d8	100	102	102.0		
MS	Toluene-d8	100	95.6	95.6	(80.00 - 120.00)	
MSD	Toluene-d8	100	98.0	98.0	(80.00 - 120.00)	2.5
LCS1	4-Bromofluorobenzene	100	108	108.0	(80.00 - 120.00)	
MBLK	4-Bromofluorobenzene	100	105	105.0		
MS	4-Bromofluorobenzene	100	96.3	96.3	(80.00 - 120.00)	
MSD	4-Bromofluorobenzene	100	103	103.0	(80.00 - 120.00)	6.7
LCS1	trans-1,2-Dichloroethylene	8	7.74	96.8	(70.00 - 130.00)	
MBLK	trans-1,2-Dichloroethylene	ND				
MBLK	tert-Butylbenzene	ND				
LCS1	Trichloroethylene (TCE)	8	7.22	90.2	(70.00 - 130.00)	
MBLK	Trichloroethylene (TCE)	ND				
MS	Trichloroethylene (TCE)	8	9.03	112.9	(70.00 - 130.00)	
MSD	Trichloroethylene (TCE)	8	8.67	108.4	(70.00 - 130.00)	4.1

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

LCS1	Trichlorotrifluoroethane(Freon	4	3.66	91.5	(70.00 - 130.00)	
MBLK	Trichlorotrifluoroethane(Freon	ND				
MBLK	trans-1,3-Dichloropropene	ND				
LCS1	Toluene	8	7.75	96.9	(70.00 - 130.00)	
MBLK	Toluene	ND				
MS	Toluene	8	8.94	111.8	(70.00 - 130.00)	
MSD	Toluene	8	8.89	111.1	(70.00 - 130.00)	0.56
LCS1	Vinyl chloride (VC)	4	4.43	110.8	(70.00 - 130.00)	
MBLK	Vinyl chloride (VC)	ND				

QC Batch #86956 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 98	1012062		(0.00 - 0.00)	
LCS1	Total Dissolved Solid (TDS)	175	166	94.9	(85.00 - 115.00)	
LCS2	Total Dissolved Solid (TDS)	700	662	94.6	(85.00 - 115.00)	
MBLK	Total Dissolved Solid (TDS)	ND				

QC Batch #86969 Alkalinity

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1028024		(0.00 - 0.00)	
LCS1	Alkalinity	96.2	97.0	100.8	(90.00 - 110.00)	
LCS2	Alkalinity	96.2	97.8	101.7	(90.00 - 110.00)	0.82
MBLK	Alkalinity	ND				
MS	Alkalinity	96.2	89.0	92.5	(80.00 - 120.00)	
MSD	Alkalinity	96.2	88.0	91.5	(80.00 - 120.00)	1.1

QC Batch #86970 Alkalinity

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1030239		(0.00 - 0.00)	
LCS1	Alkalinity	96.2	97.3	101.1	(90.00 - 110.00)	
LCS2	Alkalinity	96.2	97.5	101.4	(90.00 - 110.00)	0.21

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

MBLK	Alkalinity	ND				
MS	Alkalinity	96.2	90.0	93.6	(80.00 - 120.00)	
MSD	Alkalinity	96.2	91.0	94.6	(80.00 - 120.00)	1.1

QC Batch #87003 Arsenic, Total, GF

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab #98	1028239		(0.00 - 0.00)	
LCS1	Arsenic, Total, GF	0.020	0.0216	108.0	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.0220	110.0	(85.00 - 115.00)	1.8
MBLK	Arsenic, Total, GF	ND				
MS	Arsenic, Total, GF	0.020	0.0232	116.0	(70.00 - 130.00)	
MSD	Arsenic, Total, GF	0.020	0.0227	113.5	(70.00 - 130.00)	2.2

QC Batch #87019 Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	8	7.29	91.1	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	8	7.13	89.1	(70.00 - 130.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	8	7.36	92.0	(70.00 - 130.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	8	7.21	90.1	(70.00 - 130.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	8	7.66	95.8	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MS	1,1-Dichloroethylene	8	7.15	89.4	(70.00 - 130.00)	
MSD	1,1-Dichloroethylene	8	7.52	94.0	(70.00 - 130.00)	5.0
MBLK	1,1-Dichloropropene	ND				
MBLK	1,2,3-Trichlorobenzene	ND				
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	8	8.12	101.5	(70.00 - 130.00)	
MBLK	1,2,4-Trichlorobenzene	ND				

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory
QC Report
#48793

Foster Wheeler Environmental, Inc
(continued)

MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	8	7.60	95.0	(70.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	8	7.74	96.8	(70.00 - 130.00)	
MBLK	1,2-Dichloropropane	ND				
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	16	13.4	83.8	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
LCS1	p-Dichlorobenzene (1,4-DCB)	8	8.07	100.9	(70.00 - 130.00)	
MBLK	p-Dichlorobenzene (1,4-DCB)	ND				
MBLK	2,2-Dichloropropane	ND				
MBLK	2-Butanone (MEK)	ND				
MBLK	2-Chloroethylvinylether	ND				
MBLK	o-Chlorotoluene	ND				
MBLK	p-Chlorotoluene	ND				
MBLK	4-Methyl-2-Pentanone (MIBK)	ND				
MS	Spiked sample	Lab # 98	10302238		(0.00 - 0.00)	
LCS1	Benzene	8	7.38	92.2	(70.00 - 130.00)	
MBLK	Benzene	ND				
MS	Benzene	8	7.73	96.6	(70.00 - 130.00)	
MSD	Benzene	8	7.43	92.9	(70.00 - 130.00)	4.0
MBLK	Bromobenzene	ND				
MBLK	Bromomethane (Methyl Bromide)	ND				
LCS1	cis-1,2-Dichloroethylene	8	8.05	100.6	(70.00 - 130.00)	
MBLK	cis-1,2-Dichloroethylene	ND				
LCS1	Chlorobenzene	8	8.16	102.0	(70.00 - 130.00)	
MBLK	Chlorobenzene	ND				
MS	Chlorobenzene	8	7.93	99.1	(70.00 - 130.00)	
MSD	Chlorobenzene	8	7.66	95.8	(70.00 - 130.00)	3.5
LCS1	Carbon Tetrachloride	8	7.11	88.9	(70.00 - 130.00)	
MBLK	Carbon Tetrachloride	ND				
MBLK	cis-1,3-Dichloropropene	ND				
LCS1	Bromoform	8	7.10	88.8	(70.00 - 130.00)	
MBLK	Bromoform	ND				
LCS1	Chloroform (Trichloromethane)	8	7.56	94.5	(70.00 - 130.00)	
MBLK	Chloroform (Trichloromethane)	ND				
MBLK	Bromochloromethane	ND				

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

MBLK	Chloroethane	ND				
MBLK	Chloromethane(Methyl Chloride)	ND				
LCS1	Chlorodibromomethane	8	7.32	91.5	(70.00 - 130.00)	
MBLK	Chlorodibromomethane	ND				
MBLK	Dibromomethane	ND				
LCS1	Bromodichloromethane	8	7.65	95.6	(70.00 - 130.00)	
MBLK	Bromodichloromethane	ND				
LCS1	Dichloromethane	8	7.49	93.6	(70.00 - 130.00)	
MBLK	Dichloromethane	ND				
LCS1	Ethyl benzene	8	7.99	99.9	(70.00 - 130.00)	
MBLK	Ethyl benzene	ND				
MBLK	Dichlorodifluoromethane	ND				
LCS1	Fluorotrichloromethane-Freon11	4	4.13	103.2	(70.00 - 130.00)	
MBLK	Fluorotrichloromethane-Freon11	ND				
MBLK	Hexachlorobutadiene	ND				
MBLK	Isopropylbenzene	ND				
MBLK	m-Dichlorobenzene (1,3-DCB)	ND				
LCS1	m,p-Xylenes	16	16.7	104.4	(70.00 - 130.00)	
MBLK	m,p-Xylenes	ND				
MBLK	Naphthalene	ND				
MBLK	n-Butylbenzene	ND				
MBLK	n-Propylbenzene	ND				
LCS1	o-Xylene	8	8.55	106.9	(70.00 - 130.00)	
MBLK	o-Xylene	ND				
LCS1	o-Dichlorobenzene (1,2-DCB)	8	7.88	98.5	(70.00 - 130.00)	
MBLK	o-Dichlorobenzene (1,2-DCB)	ND				
LCS1	Tetrachloroethylene (PCE)	8	7.56	94.5	(70.00 - 130.00)	
MBLK	Tetrachloroethylene (PCE)	ND				
MBLK	p-Isopropyltoluene	ND				
MBLK	sec-Butylbenzene	ND				
LCS1	Styrene	8	8.36	104.5	(70.00 - 130.00)	
MBLK	Styrene	ND				
LCS1	1,2-dichloroethane-d4	100	101	101.0	(80.00 - 120.00)	
MBLK	1,2-dichloroethane-d4	100	90.6	90.6		
MS	1,2-dichloroethane-d4	100	107	107.0	(80.00 - 120.00)	
MSD	1,2-dichloroethane-d4	100	111	111.0	(80.00 - 120.00)	3.7
LCS1	Toluene-d8	100	108	108.0	(80.00 - 120.00)	

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

MBLK	Toluene-d8	100	106	106.0		
MS	Toluene-d8	100	101	101.0	(80.00 - 120.00)	
MSD	Toluene-d8	100	102	102.0	(80.00 - 120.00)	0.99
LCS1	4-Bromofluorobenzene	100	103	103.0	(80.00 - 120.00)	
MBLK	4-Bromofluorobenzene	100	109	109.0		
MS	4-Bromofluorobenzene	100	102	102.0	(80.00 - 120.00)	
MSD	4-Bromofluorobenzene	100	105	105.0	(80.00 - 120.00)	2.9
LCS1	trans-1,2-Dichloroethylene	8	7.42	92.8	(70.00 - 130.00)	
MBLK	trans-1,2-Dichloroethylene	ND				
MBLK	tert-Butylbenzene	ND				
LCS1	Trichloroethylene (TCE)	8	7.09	88.6	(70.00 - 130.00)	
MBLK	Trichloroethylene (TCE)	ND				
MS	Trichloroethylene (TCE)	8	7.42	92.8	(70.00 - 130.00)	
MSD	Trichloroethylene (TCE)	8	7.43	92.9	(70.00 - 130.00)	0.13
LCS1	Trichlorotrifluoroethane(Freon	4	3.51	87.8	(70.00 - 130.00)	
MBLK	Trichlorotrifluoroethane(Freon	ND				
MBLK	trans-1,3-Dichloropropene	ND				
LCS1	Toluene	8	8.05	100.6	(70.00 - 130.00)	
MBLK	Toluene	ND				
MS	Toluene	8	7.50	93.8	(70.00 - 130.00)	
MSD	Toluene	8	7.34	91.8	(70.00 - 130.00)	2.2
LCS1	Vinyl chloride (VC)	4	4.57	114.2	(70.00 - 130.00)	
MBLK	Vinyl chloride (VC)	ND				

QC Batch #87095 Perchlorate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1028240		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	20.5	102.5	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	21.1	105.5	(90.00 - 110.00)	2.9
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	18.3	91.5	(75.00 - 125.00)	
MSD	Perchlorate	20.0	18.8	94.0	(75.00 - 125.00)	2.7

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory
QC Report
#48793

Foster Wheeler Environmental, Inc
(continued)

QC Batch #87096 Perchlorate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1027112		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	21.6	108.0	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	21.9	109.5	(90.00 - 110.00)	1.4
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	21.4	107.0	(75.00 - 125.00)	
MSD	Perchlorate	20.0	22.6	113.0	(75.00 - 125.00)	5.5

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES

December 4, 1998

Foster Wheeler Environmental
611 Anton Blvd Suite 800
Costa Mesa, CA.92626

Attention: Mark Cutler

Re: Report # 48839 (MW-984-094, -093, -059, -058, -057, -056, -055)

Dear Mark,

Enclosed please find data deliverables for the recent JPL project. A detailed quality control (QC) summary follows:

Non-conformance (LCS, MS/MSD, Surrogates, and Holding Times):
None
Samples requiring dilution (with increased MRL's):
Diluted for Anions: MW-984-055
Method blanks with compounds detected:
None
Other Comments:
The ion balance exceeds QC criteria for sample ID: MW-984-055
Dichloromethane was detected in sample ID: MW-984-093
Chloroform was detected in sample ID: MW-984-056, -055
Perchlorate was detected in sample ID: MW-984-093, -058, -055
TICS:
None
Method Variance:
None

Sincerely,

Debbie Frank
Project Manager

cc: Judy Novelly (JPL)

a Division of Montgomery Watson Americas, Inc.

555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400
Fax: 626 568 6324

4820 South Mill Avenue
Suite 202
Tempe, Arizona 85282
Tel: 602 755 8201
Fax: 602 755 8203

Quality Environmental Analysis

Montgomery Watson Laboratories
, Los Angeles, CA 90051-3508
PHONE: 626-568-6400/FAX: 626-568-6324

ACKNOWLEDGMENT OF SAMPLES RECEIVED

Foster Wheeler Environmental, Inc
611 Anton Boulevard
Suite 800
Costa Mesa, CA 92626
Attn: Mark Cutler

Customer Code: ENSERCH
PO#: Sub PO#007618-0004
Group#: 48839
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

The following samples were received from you on 11/02/98. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using Montgomery Watson Laboratories.

Sample#	Sample Id	Tests Scheduled					Matrix	Sample Date
981102358	MW-984-094						Water	11/02/98
		@EBASVOA						
981102359	MW-984-093						Water	11/02/98
		@EBASVOA	CR-EBAS	AS-EBAS	PB-EBAS	CR-VI		
		CLO4						
981102360	MW-984-059						Water	11/02/98
		@EBASVOA	CR-EBAS	AS-EBAS	PB-EBAS	TDS		
		CATION1	ANION1	PH	EC	HCO3	CO3	
		ALK	NO3	SO4	CL	FE-MS	K	
		NA	MG	CA	CR-VI	CLO4		
981102361	MW-984-058						Water	11/02/98
		@EBASVOA	CLO4	CR-VI	CA	MG		
		NA	K	FE-MS	CL	SO4	NO3	
		ALK	CO3	HCO3	EC	PH	ANION	
		CATION1	TDS	PB-EBAS	AS-EBAS	CR-EBAS		
981102362	MW-984-057						Water	11/02/98
		@EBASVOA	CLO4	CR-VI	CA	MG		
		NA	K	FE-MS	CL	SO4	NO3	
		ALK	CO3	HCO3	EC	PH	ANION	
		CATION1	TDS	PB-EBAS	AS-EBAS	CR-EBAS		
981102363	MW-984-056						Water	11/02/98
		@EBASVOA	CLO4	CR-VI	CA	MG		
		NA	K	FE-MS	CL	SO4	NO3	
		ALK	CO3	HCO3	EC	PH	ANION	
		CATION1	TDS	PB-EBAS	AS-EBAS	CR-EBAS		
981102364	MW-984-055						Water	11/02/98
		@EBASVOA	CLO4	CR-VI	CA	MG		
		NA	K	FE-MS	CL	SO4	NO3	
		ALK	CO3	HCO3	EC	PH	ANION	
		CATION1	TDS	PB-EBAS	AS-EBAS	CR-EBAS		

Test Acronym Description

Test Acronym	Description

Foster Wheeler Environmental, Inc
611 Anton Boulevard
Suite 800
Costa Mesa, CA 92626
Attn: Mark Cutler

Customer Code: ENSERCH
PO#: Sub PO#007618-0004
Group#: 48839
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

Test Acronym Description

Test Acronym	Description
@EBASVOA	Regulated VOCs plus Lists 1&3
ALK	Alkalinity
ANION1	Anion Sum
AS-EBAS	Arsenic, Total, GF
CA	Calcium, Total, ICAP
CATION1	Cation Sum
CL	Chloride
CLO4	Perchlorate
CO3	Carbonate as CO3, Calculated
CR-EBAS	Chromium, Total, ICAP/MS
CR-VI	Hexavalent chromium (Cr VI)
EC	Specific Conductance
FE-MS	Iron, Total, ICAP/MS
HCO3	Bicarbonate as HCO3,calculated
K	Potassium, Total, ICAP
MG	Magnesium, Total, ICAP
NA	Sodium, Total, ICAP
NO3	Nitrate-N by IC
PB-EBAS	Lead, Total, ICAP/MS
PH	Lab pH
SO4	Sulfate
TDS	Total Dissolved Solid (TDS)

40034

NUMBER 2100

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

PROJECT: JPL

OFS NO.: 1572.0260

PROJECT ADDRESS: 4800 OAK GROVE DR. PASADENA CA

SAMPLER (Name): J. BRENNER

SAMPLER (Signature): J. B

LABORATORY: MONTGOMERY WATSON LABS

REPORTS TO BE SENT TO: MR. MARK CUTLER

HAZARD IDENTIFICATION: Non Hazard ☒ Reactive ☐ Flammable ☐ Toxic ☐ Skin Irritant ☐ Infectious ☐

TIME REQUIRED: NORMAL ☒ ___ DAYS; RUSH ☐ ___ DAYS

ANALYSES REQUIRED

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL: WATER	SOIL	OTHER (Describe)	VOCs (524.2)	TOTAL As, Pb & Cr (6010/7000)	MAJOR CATIONS & TDS	Hex Cr	Perchlorate	QC for Cr				
MW-984-094	0905	11/2/98	2	2x40ml	X			X									
MW-984-093	0920		5	2x40ml 1x250ml 2x125ml	X			X	X		X	X					
MW-984-059	0945		6	2x40ml 1x250ml 2x125ml 1x500ml				X	X	X	X	X					
MW-984-058	1115		6					X	X	X	X	X					
MW-984-057	1240		6					X	X	X	X	X					
MW-984-056	1350		6					X	X	X	X	X					
MW-984-055			6					X	X	X	X	X	X				

LABORATORY INSTRUCTIONS/COMMENTS

LEVEL II QA/QC

RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)	RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)
COMPANY	TIME	COMPANY	COMPANY	TIME	COMPANY

F-2

SHIPPING COPY

MONTGOMERY LABORATORIES COOLER RECEIPT FORM

PROJECT: ENSERCH Date Received: 10-2-98

Use other side of this form to note further details concerning check-in problems and to describe any action(s) regarding the resolution(s) of problems.

A. PRELIMINARY EXAMINATION: Date cooler opened: 11-2-98

by (print) Mike Chiang (sign) [signature]

1. Did cooler come with shipping slip (air bill, etc.)? Yes (No)
   If YES, attach & enter carrier and air bill # here: _____

2. Were custody seals on outside of cooler? (Yes) No
   If YES, how many & where: 2 outside of cooler
   If Yes, enter the following: seal date: 11-2-98, seal name: ZD

3. Were custody seals unbroken & intact at delivery? (Yes) No

4. Were custody papers sealed in bag & taped to lid? Yes (No)

5. Were custody papers filled out properly (ink, etc.) (Yes) No

6. Did you sign custody papers in appropriate place? (Yes) No

7. Was project identifiable from custody papers? (Yes) No

8. Have designated person(s) initial to acknowledge receipt: _____ (date) 11-2-98

B. LOG-IN PHASE: Date samples were logged-in: _____ by:
   (print) Mike Chiang (sign) [signature]

9. Describe packing:

10. If required, was enough ice used? (Yes) No

11. Were all bottles sealed in separate plastic bags? (Yes) No

12. Did all bottles arrive unbroken/in good condition? (Yes) No

13. Were all bottle labels complete (ID,date,sign,pres)? (Yes) No

14. Did all bottle labels agree with custody papers? (Yes) No
    If NO, indicate descrepancies on back.

15. Were correct containers useed for the analytes? (Yes) No

16. Were correct preservatives used when required? (Yes) No

17. Was sufficient amount of sample sent for tests? (Yes) No

18. Bubbles absent in VOA vials? (Yes) No
    If NO, list by sample id on back.

19. Was Client Services informed of problems? Yes (No)

Report Summary of positive results, PR48839

			Result	MDL	UNITS
Analyzed	981102358	MW-984-094			
Analyzed	981102359	MW-984-093			
11/06/98	Dichloromethane		1.2	.500	UGL
Analyzed	981102360	MW-984-059			
11/03/98	Alkalinity		138	2.000	MGL
11/19/98	Anion Sum		3.46	.001	MEQL
11/10/98	Bicarbonate as HCO3,calculated		167	.001	MGL
11/20/98	Calcium, Total, ICAP		14.8	1.000	MGL
11/10/98	Carbonate as CO3, Calculated		4.32	.001	MGL
11/20/98	Cation Sum		3.40	.001	MEQL
11/04/98	Chloride		8.24	1.000	MGL
11/05/98	Lab pH		8.6	.001	UNIT
11/20/98	Magnesium, Total, ICAP		3.81	.100	MGL
11/11/98	Perchlorate		8.2	4.000	UGL
11/20/98	Potassium, Total, ICAP		1.48	1.000	MGL
11/20/98	Sodium, Total, ICAP		53.1	1.000	MGL
11/03/98	Specific Conductance		350	4.000	UMHO
11/04/98	Sulfate		22.4	2.000	MGL
11/05/98	Total Dissolved Solid (TDS)		190	10.000	MGL
Analyzed	981102361	MW-984-058			
11/03/98	Alkalinity		133	2.000	MGL
11/19/98	Anion Sum		3.34	.001	MEQL
11/10/98	Bicarbonate as HCO3,calculated		160	.001	MGL
11/20/98	Calcium, Total, ICAP		9.56	1.000	MGL
11/10/98	Carbonate as CO3, Calculated		4.14	.001	MGL
11/20/98	Cation Sum		3.27	.001	MEQL
11/04/98	Chloride		10.0	1.000	MGL
11/14/98	Iron, Total, ICAP/MS		180	******	UGL
11/05/98	Lab pH		8.6	.001	UNIT
11/20/98	Magnesium, Total, ICAP		2.93	.100	MGL
11/11/98	Perchlorate		20	4.000	UGL
11/20/98	Sodium, Total, ICAP		58.6	1.000	MGL
11/03/98	Specific Conductance		340	4.000	UMHO
11/04/98	Sulfate		19.0	2.000	MGL
11/05/98	Total Dissolved Solid (TDS)		190	10.000	MGL
Analyzed	981102362	MW-984-057			
11/03/98	Alkalinity		194	2.000	MGL
11/19/98	Anion Sum		5.60	.001	MEQL
11/10/98	Bicarbonate as HCO3,calculated		236	.001	MGL
11/20/98	Calcium, Total, ICAP		38.6	1.000	MGL
11/10/98	Carbonate as CO3, Calculated		1.53	.001	MGL
11/20/98	Cation Sum		5.40	.001	MEQL
11/04/98	Chloride		34.2	1.000	MGL
11/05/98	Lab pH		8.0	.001	UNIT
11/20/98	Magnesium, Total, ICAP		13.1	.100	MGL
11/04/98	Nitrate-N by IC		3.44	.100	MGL
11/20/98	Potassium, Total, ICAP		1.88	1.000	MGL

11/20/98	Sodium, Total, ICAP	53.9	1.000	MGL
11/03/98	Specific Conductance	555	4.000	UMHO
11/04/98	Sulfate	24.6	2.000	MGL
11/05/98	Total Dissolved Solid (TDS)	300	10.000	MGL

Analyzed 981102363 MW-984-056

11/06/98	Chloroform (Trichloromethane)	3.6	.500	UGL
11/03/98	Alkalinity	145	2.000	MGL
11/19/98	Anion Sum	4.10	.001	MEQL
11/10/98	Bicarbonate as HCO3,calculated	176	.001	MGL
11/20/98	Calcium, Total, ICAP	38.3	1.000	MGL
11/10/98	Carbonate as CO3, Calculated	1.44	.001	MGL
11/20/98	Cation Sum	4.01	.001	MEQL
11/04/98	Chloride	13.3	1.000	MGL
11/05/98	Lab pH	8.1	.001	UNIT
11/20/98	Magnesium, Total, ICAP	16.6	.100	MGL
11/04/98	Nitrate-N by IC	2.51	.100	MGL
11/20/98	Potassium, Total, ICAP	1.84	1.000	MGL
11/20/98	Sodium, Total, ICAP	15.7	1.000	MGL
11/03/98	Specific Conductance	410	4.000	UMHO
11/04/98	Sulfate	31.1	2.000	MGL
11/05/98	Total Dissolved Solid (TDS)	230	10.000	MGL

Analyzed 981102364 MW-984-055

11/06/98	Chloroform (Trichloromethane)	0.8	.500	UGL
11/03/98	Alkalinity	160	2.000	MGL
11/19/98	Anion Sum	8.87	.001	MEQL
11/10/98	Bicarbonate as HCO3,calculated	195	.001	MGL
11/20/98	Calcium, Total, ICAP	92.1	1.000	MGL
11/10/98	Carbonate as CO3, Calculated	0.635	.001	MGL
11/25/98	Cation Sum	8.22	.001	MEQL
11/04/98	Chloride	57.9	2.000	MGL
11/05/98	Lab pH	7.7	.001	UNIT
11/20/98	Magnesium, Total, ICAP	31.0	.100	MGL
11/04/98	Nitrate-N by IC	15.7	.200	MGL
11/11/98	Perchlorate	7.8	4.000	UGL
11/20/98	Potassium, Total, ICAP	3.23	1.000	MGL
11/20/98	Sodium, Total, ICAP	22.6	1.000	MGL
11/03/98	Specific Conductance	845	4.000	UMHO
11/04/98	Sulfate	140	4.000	MGL
11/05/98	Total Dissolved Solid (TDS)	520	10.000	MGL

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory Report

for

Foster Wheeler Environmental, Inc
611 Anton Boulevard

Suite 800

Costa Mesa , CA 92626

Attention: Mark Cutler
Fax: (714)444-5560

MONTGOMERY WATSON LABS.
SUBMITTED BY
NOV 30 1998
DEB* Debbie Frank

Report#: 48839
JPL

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory Report #48839

Foster Wheeler Environmental, Inc
Mark Cutler
611 Anton Boulevard
Suite 800
Costa Mesa , CA 92626

Samples Received
02-nov-1998 16:13:01

MW-984-094 (981102358) Sampled on 11/02/98

Regulated VOCs plus Lists 1&3

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	11/06/98	87019	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	11/06/98	87019	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	11/06/98	87019	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory Report #48839

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	11/06/98	87019	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	108	% Rec		
			(Surrogate)	4-Bromofluorobenzene	96	% Rec		
			(Surrogate)	Toluene-d8	104	% Rec		

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-984-093 (981102359) Sampled on 11/02/98								
11/12/98	11/16/98	87328	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	11/11/98	87108	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
11/12/98	11/14/98	87248	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	11/02/98	86680	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
11/12/98	11/14/98	87250	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
			Regulated VOCs plus Lists 1&3					
	11/06/98	87019	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	11/06/98	87019	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	11/06/98	87019	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory Report #48839

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	11/06/98	87019	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Dichloromethane	1.2	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	119	% Rec		
			(Surrogate)	4-Bromofluorobenzene	93	% Rec		

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
			(Surrogate)	Toluene-d8	104	% Rec		
MW-984-059 (981102360) Sampled on 11/02/98								
	11/03/98	86970	(ML/S2320B)	Alkalinity	138	mg/l	2.0	1
	11/19/98		(ML/SM1040)	Anion Sum	3.46	meq/l	0.0010	1
11/12/98	11/16/98	87328	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
11/20/98	11/20/98	87577	(EPA/ML 200.7)	Calcium, Total, ICAP	14.8	mg/l	1.0	1
	11/20/98		(ML/SM1040)	Cation Sum	3.40	meq/l	0.0010	1
	11/04/98	87344	(ML/EPA 300)	Chloride	8.24	mg/l	1.0	1
	11/11/98	87108	(MOD/EPA 300)	Perchlorate	8.2	ug/l	4.0	1
	11/10/98		(ML/S2320-B)	Carbonate as CO3, Calculated	4.32	mg/l	0.0010	1
11/12/98	11/14/98	87248	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	11/02/98	86680	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	11/03/98	86714	(ML/S2510B)	Specific Conductance	350	umho/cm	4.0	1
11/12/98	11/14/98	87249	(EPA/ML 200.8)	Iron, Total, ICAP/MS	ND	ug/l	100	1
	11/10/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	167	mg/l	0.0010	1
11/20/98	11/20/98	87578	(ML/EPA 200.7)	Potassium, Total, ICAP	1.48	mg/l	1.0	1
11/20/98	11/20/98	87579	(ML/EPA 200.7)	Magnesium, Total, ICAP	3.81	mg/l	0.10	1
11/20/98	11/20/98	87580	(ML/EPA 200.7)	Sodium, Total, ICAP	53.1	mg/l	1.0	1
	11/04/98	87346	(ML/EPA 300.0)	Nitrate-N by IC	ND	mg/l	0.10	1
11/12/98	11/14/98	87250	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	11/05/98	86883	(ML/SM 4500H)	Lab pH	8.6	Units	0.0010	1
	11/04/98	87347	(ML/EPA 300.0)	Sulfate	22.4	mg/l	2.0	1
	11/05/98	86956	(ML/S2540C)	Total Dissolved Solid (TDS)	190	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	11/06/98	87019	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory
Report
#48839

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	11/06/98	87019	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	11/06/98	87019	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	11/06/98	87019	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	11/06/98	87019	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	120	% Rec		
			(Surrogate)	4-Bromofluorobenzene	96	% Rec		
			(Surrogate)	Toluene-d8	103	% Rec		

MW-984-058 (981102361) Sampled on 11/02/98

	11/03/98	86970	(ML/S2320B)	Alkalinity	133	mg/l	2.0	1
	11/19/98		(ML/SM1040)	Anion Sum	3.34	meq/l	0.0010	1
11/12/98	11/16/98	87328	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
11/20/98	11/20/98	87577	(EPA/ML 200.7)	Calcium, Total, ICAP	9.56	mg/l	1.0	1
	11/20/98		(ML/SM1040)	Cation Sum	3.27	meq/l	0.0010	1
	11/04/98	87344	(ML/EPA 300)	Chloride	10.0	mg/l	1.0	1
	11/11/98	87108	(MOD/EPA 300)	Perchlorate	20	ug/l	4.0	1
	11/10/98		(ML/S2320-B)	Carbonate as CO3, Calculated	4.14	mg/l	0.0010	1
11/12/98	11/14/98	87248	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	11/02/98	86680	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	11/03/98	86714	(ML/S2510B)	Specific Conductance	340	umho/cm	4.0	1
11/12/98	11/14/98	87249	(EPA/ML 200.8)	Iron, Total, ICAP/MS	180	ug/l	100	1
	11/10/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	160	mg/l	0.0010	1
11/20/98	11/20/98	87578	(ML/EPA 200.7)	Potassium, Total, ICAP	ND	mg/l	1.0	1
11/20/98	11/20/98	87579	(ML/EPA 200.7)	Magnesium, Total, ICAP	2.93	mg/l	0.10	1
11/20/98	11/20/98	87580	(ML/EPA 200.7)	Sodium, Total, ICAP	58.6	mg/l	1.0	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory Report #48839

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	11/04/98	87346	(ML/EPA 300.0)	Nitrate-N by IC	ND	mg/l	0.10	1
11/12/98	11/14/98	87250	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	11/05/98	86883	(ML/SM 4500H)	Lab pH	8.6	Units	0.0010	1
	11/04/98	87347	(ML/EPA 300.0)	Sulfate	19.0	mg/l	2.0	1
	11/05/98	86956	(ML/S2540C)	Total Dissolved Solid (TDS)	190	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	11/06/98	87019	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	11/06/98	87019	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	11/06/98	87019	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	11/06/98	87019	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	118	% Rec		
			(Surrogate)	4-Bromofluorobenzene	90	% Rec		
			(Surrogate)	Toluene-d8	99	% Rec		

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory Report #48839

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-984-057 (981102362) Sampled on 11/02/98								
	11/03/98	86970	(ML/S2320B)	Alkalinity	194	mg/l	2.0	1
	11/19/98		(ML/SM1040)	Anion Sum	5.60	meq/l	0.0010	1
11/12/98	11/16/98	87328	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
11/20/98	11/20/98	87577	(EPA/ML 200.7)	Calcium, Total, ICAP	38.6	mg/l	1.0	1
	11/20/98		(ML/SM1040)	Cation Sum	5.40	meq/l	0.0010	1
	11/04/98	87344	(ML/EPA 300)	Chloride	34.2	mg/l	1.0	1
	11/11/98	87108	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	11/10/98		(ML/S2320-B)	Carbonate as CO3, Calculated	1.53	mg/l	0.0010	1
11/12/98	11/14/98	87248	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	11/02/98	86680	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	11/03/98	86714	(ML/S2510B)	Specific Conductance	555	umho/cm	4.0	1
11/12/98	11/14/98	87249	(EPA/ML 200.8)	Iron, Total, ICAP/MS	ND	ug/l	100	1
	11/10/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	236	mg/l	0.0010	1
11/20/98	11/20/98	87578	(ML/EPA 200.7)	Potassium, Total, ICAP	1.88	mg/l	1.0	1
11/20/98	11/20/98	87579	(ML/EPA 200.7)	Magnesium, Total, ICAP	13.1	mg/l	0.10	1
11/20/98	11/20/98	87580	(ML/EPA 200.7)	Sodium, Total, ICAP	53.9	mg/l	1.0	1
	11/04/98	87346	(ML/EPA 300.0)	Nitrate-N by IC	3.44	mg/l	0.10	1
11/12/98	11/14/98	87250	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	11/05/98	86883	(ML/SM 4500H)	Lab pH	8.0	Units	0.0010	1
	11/04/98	87347	(ML/EPA 300.0)	Sulfate	24.6	mg/l	2.0	1
	11/05/98	86956	(ML/S2540C)	Total Dissolved Solid (TDS)	300	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	11/06/98	87019	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	11/06/98	87019	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	11/06/98	87019	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	11/06/98	87019	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	11/06/98	87019	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	111	% Rec		
			(Surrogate)	4-Bromofluorobenzene	104	% Rec		
			(Surrogate)	Toluene-d8	102	% Rec		

MW-984-056 (981102363) Sampled on 11/02/98

	11/03/98	86970	(ML/S2320B)	Alkalinity	145	mg/l	2.0	1
	11/19/98		(ML/SM1040)	Anion Sum	4.10	meq/l	0.0010	1
11/12/98	11/16/98	87328	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
11/20/98	11/20/98	87577	(EPA/ML 200.7)	Calcium, Total, ICAP	38.3	mg/l	1.0	1
	11/20/98		(ML/SM1040)	Cation Sum	4.01	meq/l	0.0010	1
	11/04/98	87344	(ML/EPA 300)	Chloride	13.3	mg/l	1.0	1
	11/11/98	87108	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	11/10/98		(ML/S2320-B)	Carbonate as CO3, Calculated	1.44	mg/l	0.0010	1
11/12/98	11/14/98	87248	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	11/02/98	86680	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	11/03/98	86714	(ML/S2510B)	Specific Conductance	410	umho/cm	4.0	1
11/12/98	11/14/98	87249	(EPA/ML 200.8)	Iron, Total, ICAP/MS	ND	ug/l	100	1
	11/10/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	176	mg/l	0.0010	1
11/20/98	11/20/98	87578	(ML/EPA 200.7)	Potassium, Total, ICAP	1.84	mg/l	1.0	1
11/20/98	11/20/98	87579	(ML/EPA 200.7)	Magnesium, Total, ICAP	16.6	mg/l	0.10	1
11/20/98	11/20/98	87580	(ML/EPA 200.7)	Sodium, Total, ICAP	15.7	mg/l	1.0	1
	11/04/98	87346	(ML/EPA 300.0)	Nitrate-N by IC	2.51	mg/l	0.10	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
11/12/98	11/14/98	87250	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	11/05/98	86883	(ML/SM 4500H)	Lab pH	8.1	Units	0.0010	1
	11/04/98	87347	(ML/EPA 300.0)	Sulfate	31.1	mg/l	2.0	1
	11/05/98	86956	(ML/S2540C)	Total Dissolved Solid (TDS)	230	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	11/06/98	87019	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	11/06/98	87019	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	11/06/98	87019	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Chloroform (Trichloromethane)	3.6	ug/l	0.50	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory
Report
#48839

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	11/06/98	87019	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	115	% Rec		
			(Surrogate)	4-Bromofluorobenzene	99	% Rec		
			(Surrogate)	Toluene-d8	98	% Rec		

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-984-055 (981102364) Sampled on 11/02/98								
	11/03/98	86970	(ML/S2320B)	Alkalinity	160	mg/l	2.0	1
	11/19/98		(ML/SM1040)	Anion Sum	8.87	meq/l	0.0010	1
11/12/98	11/24/98	87328	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
11/20/98	11/20/98	87577	(EPA/ML 200.7)	Calcium, Total, ICAP	92.1	mg/l	1.0	1
	11/25/98		(ML/SM1040)	Cation Sum	8.22	meq/l	0.0010	1
	11/04/98	87344	(ML/EPA 300)	Chloride	57.9	mg/l	2.0	2
	11/11/98	87108	(MOD/EPA 300)	Perchlorate	7.8	ug/l	4.0	1
	11/10/98		(ML/S2320-B)	Carbonate as CO3, Calculated	0.635	mg/l	0.0010	1
11/12/98	11/14/98	87248	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	11/02/98	86680	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	11/03/98	86714	(ML/S2510B)	Specific Conductance	845	umho/cm	4.0	1
11/12/98	11/14/98	87249	(EPA/ML 200.8)	Iron, Total, ICAP/MS	ND	ug/l	100	1
	11/10/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	195	mg/l	0.0010	1
11/20/98	11/20/98	87578	(ML/EPA 200.7)	Potassium, Total, ICAP	3.23	mg/l	1.0	1
11/20/98	11/20/98	87579	(ML/EPA 200.7)	Magnesium, Total, ICAP	31.0	mg/l	0.10	1
11/20/98	11/20/98	87580	(ML/EPA 200.7)	Sodium, Total, ICAP	22.6	mg/l	1.0	1
	11/04/98	87346	(ML/EPA 300.0)	Nitrate-N by IC	15.7	mg/l	0.20	2
11/12/98	11/14/98	87250	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	11/05/98	86883	(ML/SM 4500H)	Lab pH	7.7	Units	0.0010	1
	11/04/98	87347	(ML/EPA 300.0)	Sulfate	140	mg/l	4.0	2
	11/05/98	86956	(ML/S2540C)	Total Dissolved Solid (TDS)	520	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	11/06/98	87019	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	11/06/98	87019	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	11/06/98	87019	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	11/06/98	87019	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Chloroform (Trichloromethane)	0.8	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	11/06/98	87019	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	107	% Rec		
			(Surrogate)	4-Bromofluorobenzene	104	% Rec		
			(Surrogate)	Toluene-d8	102	% Rec		

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Report
Comments
#48839

Group Comments

(Balance)Sample MW-984-055 the anion sum and the cation sum percent difference exceeded the limit. Sample was re-analyze d with no improvement. Matrix effect for the sample is suspected.

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory QC Report #48839

Foster Wheeler Environmental, Inc

QC Batch #86680 Hexavalent chromium (Cr VI)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1102364		(0.00 - 0.00)	
LCS1	Hexavalent chromium (Cr VI)	0.050	0.0505	101.0	(78.00 - 118.00)	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.0498	99.6	(78.00 - 118.00)	1.4
MBLK	Hexavalent chromium (Cr VI)	ND				
MS	Hexavalent chromium (Cr VI)	0.050	0.0505	101.0	(80.00 - 120.00)	
MSD	Hexavalent chromium (Cr VI)	0.050	0.0505	101.0	(80.00 - 120.00)	0.00

QC Batch #86714 Specific Conductance

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 98	1030239		(0.00 - 0.00)	

QC Batch #86883 Lab pH

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	lab # 98	1104208		(0.00 - 0.00)	

QC Batch #86956 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 98	1012062		(0.00 - 0.00)	
LCS1	Total Dissolved Solid (TDS)	175	166	94.9	(85.00 - 115.00)	
LCS2	Total Dissolved Solid (TDS)	700	662	94.6	(85.00 - 115.00)	
MBLK	Total Dissolved Solid (TDS)	ND				

QC Batch #86970 Alkalinity

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1030239		(0.00 - 0.00)	
LCS1	Alkalinity	96.2	97.3	101.1	(90.00 - 110.00)	
LCS2	Alkalinity	96.2	97.5	101.4	(90.00 - 110.00)	0.21
MBLK	Alkalinity	ND				

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory
QC Report
#48839

Foster Wheeler Environmental, Inc
(continued)

MS	Alkalinity	96.2	90.0	93.6	(80.00 - 120.00)	
MSD	Alkalinity	96.2	91.0	94.6	(80.00 - 120.00)	1.1

QC Batch #87019 Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	8	7.29	91.1	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	8	7.13	89.1	(70.00 - 130.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	8	7.36	92.0	(70.00 - 130.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	8	7.21	90.1	(70.00 - 130.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	8	7.66	95.8	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MS	1,1-Dichloroethylene	8	7.15	89.4	(70.00 - 130.00)	
MSD	1,1-Dichloroethylene	8	7.52	94.0	(70.00 - 130.00)	5.0
MBLK	1,1-Dichloropropane	ND				
MBLK	1,2,3-Trichlorobenzene	ND				
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	8	8.12	101.5	(70.00 - 130.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	8	7.60	95.0	(70.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	8	7.74	96.8	(70.00 - 130.00)	
MBLK	1,2-Dichloropropane	ND				
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	16	13.4	83.8	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
LCS1	p-Dichlorobenzene (1,4-DCB)	8	8.07	100.9	(70.00 - 130.00)	
MBLK	p-Dichlorobenzene (1,4-DCB)	ND				
MBLK	2,2-Dichloropropane	ND				
MBLK	2-Butanone (MEK)	ND				

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

MBLK	2-Chloroethylvinylether	ND				
MBLK	o-Chlorotoluene	ND				
MBLK	p-Chlorotoluene	ND				
MBLK	4-Methyl-2-Pentanone (MIBK)	ND				
MS	Spiked sample	Lab # 98	10302238		(0.00 - 0.00)	
LCS1	Benzene	8	7.38	92.2	(70.00 - 130.00)	
MBLK	Benzene	ND				
MS	Benzene	8	7.73	96.6	(70.00 - 130.00)	
MSD	Benzene	8	7.43	92.9	(70.00 - 130.00)	4.0
MBLK	Bromobenzene	ND				
MBLK	Bromomethane (Methyl Bromide)	ND				
LCS1	cis-1,2-Dichloroethylene	8	8.05	100.6	(70.00 - 130.00)	
MBLK	cis-1,2-Dichloroethylene	ND				
LCS1	Chlorobenzene	8	8.16	102.0	(70.00 - 130.00)	
MBLK	Chlorobenzene	ND				
MS	Chlorobenzene	8	7.93	99.1	(70.00 - 130.00)	
MSD	Chlorobenzene	8	7.66	95.8	(70.00 - 130.00)	3.5
LCS1	Carbon Tetrachloride	8	7.11	88.9	(70.00 - 130.00)	
MBLK	Carbon Tetrachloride	ND				
MBLK	cis-1,3-Dichloropropene	ND				
LCS1	Bromoform	8	7.10	88.8	(70.00 - 130.00)	
MBLK	Bromoform	ND				
LCS1	Chloroform (Trichloromethane)	8	7.56	94.5	(70.00 - 130.00)	
MBLK	Chloroform (Trichloromethane)	ND				
MBLK	Bromochloromethane	ND				
MBLK	Chloroethane	ND				
MBLK	Chloromethane(Methyl Chloride)	ND				
LCS1	Chlorodibromomethane	8	7.32	91.5	(70.00 - 130.00)	
MBLK	Chlorodibromomethane	ND				
MBLK	Dibromomethane	ND				
LCS1	Bromodichloromethane	8	7.65	95.6	(70.00 - 130.00)	
MBLK	Bromodichloromethane	ND				
LCS1	Dichloromethane	8	7.49	93.6	(70.00 - 130.00)	
MBLK	Dichloromethane	ND				
LCS1	Ethyl benzene	8	7.99	99.9	(70.00 - 130.00)	
MBLK	Ethyl benzene	ND				
MBLK	Dichlorodifluoromethane	ND				

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory
QC Report
#48839

Foster Wheeler Environmental, Inc
(continued)

LCS1	Fluorotrichloromethane-Freon11	4	4.13	103.2	(70.00 - 130.00)	
MBLK	Fluorotrichloromethane-Freon11	ND				
MBLK	Hexachlorobutadiene	ND				
MBLK	Isopropylbenzene	ND				
MBLK	m-Dichlorobenzene (1,3-DCB)	ND				
LCS1	m,p-Xylenes	16	16.7	104.4	(70.00 - 130.00)	
MBLK	m,p-Xylenes	ND				
MBLK	Naphthalene	ND				
MBLK	n-Butylbenzene	ND				
MBLK	n-Propylbenzene	ND				
LCS1	o-Xylene	8	8.55	106.9	(70.00 - 130.00)	
MBLK	o-Xylene	ND				
LCS1	o-Dichlorobenzene (1,2-DCB)	8	7.88	98.5	(70.00 - 130.00)	
MBLK	o-Dichlorobenzene (1,2-DCB)	ND				
LCS1	Tetrachloroethylene (PCE)	8	7.56	94.5	(70.00 - 130.00)	
MBLK	Tetrachloroethylene (PCE)	ND				
MBLK	p-Isopropyltoluene	ND				
MBLK	sec-Butylbenzene	ND				
LCS1	Styrene	8	8.36	104.5	(70.00 - 130.00)	
MBLK	Styrene	ND				
LCS1	1,2-dichloroethane-d4	100	101	101.0	(80.00 - 120.00)	
MBLK	1,2-dichloroethane-d4	100	90.6	90.6		
MS	1,2-dichloroethane-d4	100	107	107.0	(80.00 - 120.00)	
MSD	1,2-dichloroethane-d4	100	111	111.0	(80.00 - 120.00)	3.7
LCS1	Toluene-d8	100	108	108.0	(80.00 - 120.00)	
MBLK	Toluene-d8	100	106	106.0		
MS	Toluene-d8	100	101	101.0	(80.00 - 120.00)	
MSD	Toluene-d8	100	102	102.0	(80.00 - 120.00)	0.99
LCS1	4-Bromofluorobenzene	100	103	103.0	(80.00 - 120.00)	
MBLK	4-Bromofluorobenzene	100	109	109.0		
MS	4-Bromofluorobenzene	100	102	102.0	(80.00 - 120.00)	
MSD	4-Bromofluorobenzene	100	105	105.0	(80.00 - 120.00)	2.9
LCS1	trans-1,2-Dichloroethylene	8	7.42	92.8	(70.00 - 130.00)	
MBLK	trans-1,2-Dichloroethylene	ND				
MBLK	tert-Butylbenzene	ND				
LCS1	Trichloroethylene (TCE)	8	7.09	88.6	(70.00 - 130.00)	
MBLK	Trichloroethylene (TCE)	ND				

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

MS	Trichloroethylene (TCE)	8	7.42	92.8	(70.00 - 130.00)	
MSD	Trichloroethylene (TCE)	8	7.43	92.9	(70.00 - 130.00)	0.13
LCS1	Trichlorotrifluoroethane(Freon	4	3.51	87.8	(70.00 - 130.00)	
MBLK	Trichlorotrifluoroethane(Freon	ND				
MBLK	trans-1,3-Dichloropropene	ND				
LCS1	Toluene	8	8.05	100.6	(70.00 - 130.00)	
MBLK	Toluene	ND				
MS	Toluene	8	7.50	93.8	(70.00 - 130.00)	
MSD	Toluene	8	7.34	91.8	(70.00 - 130.00)	2.2
LCS1	Vinyl chloride (VC)	4	4.57	114.2	(70.00 - 130.00)	
MBLK	Vinyl chloride (VC)	ND				

QC Batch #87108 Perchlorate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1102362		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	21.3	106.5	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	21.0	105.0	(90.00 - 110.00)	1.4
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	21.9	109.5	(75.00 - 125.00)	
MSD	Perchlorate	20.0	24.1	120.5	(75.00 - 125.00)	9.6

QC Batch #87248 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab# 98	1103158		(0.00 - 0.00)	
LCS1	Chromium, Total, ICAP/MS	100	98	98.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	102	102.0	(85.00 - 115.00)	4.0
MBLK	Chromium, Total, ICAP/MS	ND				
MS	Chromium, Total, ICAP/MS	100	94	94.0	(70.00 - 130.00)	
MSD	Chromium, Total, ICAP/MS	100	99	99.0	(70.00 - 130.00)	5.2

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

QC Batch #87249 Iron, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1103158		(0.00 - 0.00)	
LCS1	Iron, Total, ICAP/MS	500	489	97.8	(85.00 - 115.00)	
LCS2	Iron, Total, ICAP/MS	500	511	102.2	(85.00 - 115.00)	4.4
MBLK	Iron, Total, ICAP/MS	ND				
MS	Iron, Total, ICAP/MS	500	487	97.4	(70.00 - 130.00)	
MSD	Iron, Total, ICAP/MS	500	500	100.0	(70.00 - 130.00)	2.6

QC Batch #87250 Lead, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab #98	1103158		(0.00 - 0.00)	
LCS1	Lead, Total, ICAP/MS	20.0	20.2	101.0	(85.00 - 115.00)	
LCS2	Lead, Total, ICAP/MS	20.0	21.4	107.0	(85.00 - 115.00)	5.8
MBLK	Lead, Total, ICAP/MS	ND				
MS	Lead, Total, ICAP/MS	20.0	21.6	108.0	(70.00 - 130.00)	
MSD	Lead, Total, ICAP/MS	20.0	21.7	108.5	(70.00 - 130.00)	0.46

QC Batch #87328 Arsenic, Total, GF

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab #98	1103158		(0.00 - 0.00)	
LCS1	Arsenic, Total, GF	0.020	0.0170	85.0	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.0188	94.0	(85.00 - 115.00)	10
MBLK	Arsenic, Total, GF	ND				
MS	Arsenic, Total, GF	0.020	0.0205	102.5	(70.00 - 130.00)	
MSD	Arsenic, Total, GF	0.020	0.0206	103.0	(70.00 - 130.00)	0.49

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

QC Batch #87344 Chloride

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1103157		(0.00 - 0.00)	
LCS1	Chloride	25	25.8	103.2	(90.00 - 110.00)	
LCS2	Chloride	25	25.6	102.4	(90.00 - 110.00)	0.78
MBLK	Chloride	ND				
MS	Chloride	25	25.4	101.6	(80.00 - 120.00)	
MSD	Chloride	25	25.4	101.6	(80.00 - 120.00)	0.00

QC Batch #87346 Nitrate-N by IC

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1103157		(0.00 - 0.00)	
LCS1	Nitrate-N by IC	2.5	2.56	102.4	(90.00 - 110.00)	
LCS2	Nitrate-N by IC	2.5	2.55	102.0	(90.00 - 110.00)	0.39
MBLK	Nitrate-N by IC	ND				
MS	Nitrate-N by IC	2.5	2.41	96.4	(80.00 - 120.00)	
MSD	Nitrate-N by IC	2.5	2.41	96.4	(80.00 - 120.00)	0.00

QC Batch #87347 Sulfate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1103157		(0.00 - 0.00)	
LCS1	Sulfate	50	50.9	101.8	(90.00 - 110.00)	
LCS2	Sulfate	50	50.6	101.2	(90.00 - 110.00)	0.59
MBLK	Sulfate	ND				
MS	Sulfate	50	49.1	98.2	(80.00 - 120.00)	
MSD	Sulfate	50	49.2	98.4	(80.00 - 120.00)	0.20

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory
QC Report
#48839

Foster Wheeler Environmental, Inc
(continued)

QC Batch #87577 Calcium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1102360		(0.00 - 0.00)	
LCS1	Calcium, Total, ICAP	50	49.2	98.4	(85.00 - 115.00)	
LCS2	Calcium, Total, ICAP	50	49.5	99.0	(85.00 - 115.00)	0.61
MBLK	Calcium, Total, ICAP	ND				
MS	Calcium, Total, ICAP	50	49.4	98.8	(70.00 - 130.00)	
MSD	Calcium, Total, ICAP	50	49.6	99.2	(70.00 - 130.00)	0.40

QC Batch #87578 Potassium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1102360		(0.00 - 0.00)	
LCS1	Potassium, Total, ICAP	20	19.4	97.0	(80.00 - 110.00)	
LCS2	Potassium, Total, ICAP	20	19.5	97.5	(80.00 - 110.00)	0.51
MBLK	Potassium, Total, ICAP	ND				
MS	Potassium, Total, ICAP	20	20.0	100.0	(80.00 - 120.00)	
MSD	Potassium, Total, ICAP	20	20.0	100.0	(80.00 - 120.00)	0.00

QC Batch #87579 Magnesium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1102360		(0.00 - 0.00)	
LCS1	Magnesium, Total, ICAP	20	20.2	101.0	(85.00 - 115.00)	
LCS2	Magnesium, Total, ICAP	20	20.3	101.5	(85.00 - 115.00)	0.49
MBLK	Magnesium, Total, ICAP	ND				
MS	Magnesium, Total, ICAP	20	20.0	100.0	(70.00 - 130.00)	
MSD	Magnesium, Total, ICAP	20	20.1	100.5	(70.00 - 130.00)	0.50

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

QC Batch #87580 Sodium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1102360		(0.00 - 0.00)	
LCS1	Sodium, Total, ICAP	50	50.2	100.4	(85.00 - 115.00)	
LCS2	Sodium, Total, ICAP	50	50.5	101.0	(85.00 - 115.00)	0.60
MBLK	Sodium, Total, ICAP	ND				
MS	Sodium, Total, ICAP	50	49.1	98.2	(70.00 - 130.00)	
MSD	Sodium, Total, ICAP	50	50.2	100.4	(70.00 - 130.00)	2.2

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES

December 4, 1998

Foster Wheeler Environmental
611 Anton Blvd Suite 800
Costa Mesa, CA.92626

Attention: Mark Cutler

Re: Report # 48855 (MW-984-096, -095, -006, -005, -004, -003, -002)

Dear Mark,

Enclosed please find data deliverables for the recent JPL project. A detailed quality control (QC) summary follows:

Non-conformance (LCS, MS/MSD, Surrogates, and Holding Times):
None
Samples requiring dilution (with increased MRL's):
None
Method blanks with compounds detected:
None
Other Comments:
Carbon Tetrachloride was detected in sample ID: MW-984-004
Chloroform was detected in sample ID: MW-984-004
Trichloroethylene was detected in sample ID: MW-984-004
Perchlorate was detected in sample ID: MW-984-006
TICS:
Carbon Disulfide was detected in sample ID: MW-984-004
This compound is a solvent that is used in the laboratory. This compound was not used in the laboratory on the day of the analyses. The method blanks analyzed with the samples did not contain this analyte based on the TIC protocol.
Method Variance:
None

Sincerely,

Debbie Frank
Project Manager

cc: Judy Novelly (JPL)

a Division of Montgomery Watson Americas, Inc.

555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400
Fax: 626 568 6324

4820 South Mill Avenue
Suite 202
Tempe, Arizona 85282
Tel: 602 755 8201
Fax: 602 755 8203

Quality Environmental Analysis

Montgomery Watson Laboratories
, Los Angeles, CA 90051-3508
PHONE: 626-568-6400/FAX: 626-568-6324

ACKNOWLEDGMENT OF SAMPLES RECEIVED

Foster Wheeler Environmental, Inc
611 Anton Boulevard
Suite 800
Costa Mesa, CA 92626
Attn: Mark Cutler

Customer Code: ENSERCH
PO#: Sub PO#007618-0004
Group#: 48855
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

The following samples were received from you on 11/03/98. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using Montgomery Watson Laboratories.

Sample#	Sample Id	Tests Scheduled		Matrix			Sample Date
981103155	MW-984-096			Water			11/03/98
		@EBASVOA					
981103156	MW-984-095			Water			11/03/98
		@EBASVOA	AS-EBAS	CR-EBAS	PB-EBAS	CR-VI	
		CLO4					
981103157	MW-984-006			Water			11/03/98
		@EBASVOA	CR-VI	PB-EBAS	CR-EBAS	AS-EBAS	
		TDS	CATION1	ANION1	PH	EC	HCO3
		CO3	ALK	NO3	SO4	CL	FE-MS
		K	NA	MG	CA	CLO4	
981103158	MW-984-005			Water			11/03/98
		@EBASVOA	CLO4	CA	MG	NA	
		K	FE-MS	CL	SO4	NO3	ALK
		CO3	HCO3	EC	PH	ANION1	CATIO
		TDS	AS-EBAS	CR-EBAS	PB-EBAS	CR-VI	
981103159	MW-984-004			Water			11/03/98
		@EBASVOA	CLO4	CA	MG	NA	
		K	FE-MS	CL	SO4	NO3	ALK
		CO3	HCO3	EC	PH	ANION1	CATIO
		TDS	AS-EBAS	CR-EBAS	PB-EBAS	CR-VI	
981103160	MW-984-003			Water			11/03/98
		@EBASVOA	CLO4	CA	MG	NA	
		K	FE-MS	CL	SO4	NO3	ALK
		CO3	HCO3	EC	PH	ANION1	CATIO
		TDS	AS-EBAS	CR-EBAS	PB-EBAS	CR-VI	
981103161	MW-984-002			Water			11/03/98
		@EBASVOA	CLO4	CA	MG	NA	
		K	FE-MS	CL	SO4	NO3	ALK
		CO3	HCO3	EC	PH	ANION1	CATIO
		TDS	AS-EBAS	CR-EBAS	PB-EBAS	CR-VI	

Test Acronym Description

Test Acronym	Description

Foster Wheeler Environmental, Inc
611 Anton Boulevard
Suite 800
Costa Mesa, CA 92626
Attn: Mark Cutler

Customer Code: ENSERCH
PO#: Sub PO#007618-0004
Group#: 48855
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

Test Acronym Description

Test Acronym	Description
@EBASVOA	Regulated VOCs plus Lists 1&3
ALK	Alkalinity
ANION1	Anion Sum
AS-EBAS	Arsenic, Total, GF
CA	Calcium, Total, ICAP
CATION1	Cation Sum
CL	Chloride
CLO4	Perchlorate
CO3	Carbonate as CO3, Calculated
CR-EBAS	Chromium, Total, ICAP/MS
CR-VI	Hexavalent chromium (Cr VI)
EC	Specific Conductance
FE-MS	Iron, Total, ICAP/MS
HCO3	Bicarbonate as HCO3,calculated
K	Potassium, Total, ICAP
MG	Magnesium, Total, ICAP
NA	Sodium, Total, ICAP
NO3	Nitrate-N by IC
PB-EBAS	Lead, Total, ICAP/MS
PH	Lab pH
SO4	Sulfate
TDS	Total Dissolved Solid (TDS)

NUMBER 2797

48855

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PROJECT: JPL

OFS NO.: 1572 0260

PROJECT ADDRESS: 4500 OAK GROVE DR PASADENA CA

SAMPLER (Name): B DOMENIL

SAMPLER (Signature): Bettie Domenil

LABORATORY: MONTGOMERY WATSON LABS

REPORTS TO BE SENT TO: MR MARK CUTLER

HAZARD IDENTIFICATION: Non Hazard ☒ Reactive ☐ Flammable ☐ Toxic ☐ Skin Irritant ☐ Infectious ☐

TIME REQUIRED: NORMAL ☒ ___ DAYS; RUSH ☐ ___ DAYS

ANALYSES REQUIRED

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL: WATER	SOIL	OTHER (Describe)	VOCs (524.2)	TPH MO (8015/7000)	MASS ANIONS, TDS	Hex Cr	Perchlorate	MS for VOC	MS/MSD for VOC	MS/MSD for Metals	Cr6 for Cr6	
MW-934-096	0925	11/3/98	2	2x40ml	X			X									
MW-934-095	1235		5	2x40ml 1x250ml 2x125ml	X			X	X		X	X					
MW-934-006	0925		6	2x40ml 1x250ml 2x125ml 1x500ml	X			X	X	X	X	X					
MW-934-005	1045		6		X			X	X	X	X	X			X		
MW-934-005MS	1045		2	2x40ml	X								X				
MW-934-005MSD	1045		2	2x40ml	X									X			
MW-934-004	1200		6	2x40ml 1x250ml 2x125ml 1x500ml	X			X	X	X	X	X					
MW-934-003	1300		6		X			X	X	X	X	X					
MW-934-002	1350		6					X	X	X	X	X				X	

LABORATORY INSTRUCTIONS/COMMENTS

LEVEL IV QA/QC

RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)	RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)
Bettie Domenil	1430	[illegible]			
COMPANY: FWENC	TIME: 11/3/98	COMPANY: MWL	COMPANY	TIME	COMPANY

MONTGOMERY LABORATORIES COOLER RECEIPT FORM

PROJECT: ENSERCH Date Received: 11-3-98

Use other side of this form to note further details concerning check-in problems and to describe any action(s) regarding the resolution(s) of problems.

A. PRELIMINARY EXAMINATION: Date cooler opened: 11-3-98
by (print) Mike Williams (sign) [signature]

1. Did cooler come with shipping slip (air bill, etc.)? Yes (No)
   If YES, attach & enter carrier and air bill # here: _____

2. Were custody seals on outside of cooler? (Yes) No
   If YES, how many & where: 2 outsid of cooler
   If Yes, enter the following: seal date: ~~[illegible]~~ 11-3-98 seal name: BP

3. Were custody seals unbroken & intact at delivery? (Yes) No

4. Were custody papers sealed in bag & taped to lid? Yes (No)

5. Were custody papers filled out properly (ink, etc.) (Yes) No

6. Did you sign custody papers in appropriate place? (Yes) No

7. Was project identifiable from custody papers? (Yes) No

8. Have designated person(s) initial to acknowledge receipt: _____(date)_____

B. LOG-IN PHASE: Date samples were logged-in: _____ by:
(print)_____(sign)_____

9. Describe packing:

10. If required, was enough ice used? (Yes) No

11. Were all bottles sealed in separate plastic bags? (Yes) No

12. Did all bottles arrive unbroken/in good condition? (Yes) No

13. Were all bottle labels complete (ID,date,sign,pres)? (Yes) No

14. Did all bottle labels agree with custody papers? (Yes) No
    If NO, indicate descrepancies on back.

15. Were correct containers useed for the analytes? (Yes) No

16. Were correct preservatives used when required? (Yes) No

17. Was sufficient amount of sample sent for tests? (Yes) No

18. Bubbles absent in VOA vials? (Yes) No
    If NO, list by sample id on back.

19. Was Client Services informed of problems? Yes (No)

Report Summary of positive results, PR48855

			Result	MDL	UNITS
Analyzed	981103155	MW-984-096			
Analyzed	981103156	MW-984-095			
Analyzed	981103157	MW-984-006			
11/03/98	Alkalinity		130	2.000	MGL
11/19/98	Anion Sum		2.99	.001	MEQL
11/10/98	Bicarbonate as HCO3,calculated		152	.001	MGL
11/20/98	Calcium, Total, ICAP		3.50	1.000	MGL
11/10/98	Carbonate as CO3, Calculated		15.7	.001	MGL
11/20/98	Cation Sum		3.11	.001	MEQL
11/04/98	Chloride		9.77	1.000	MGL
11/14/98	Iron, Total, ICAP/MS		860	******	UGL
11/05/98	Lab pH		9.2	.001	UNIT
11/20/98	Magnesium, Total, ICAP		0.68	.100	MGL
11/04/98	Nitrate-N by IC		0.28	.100	MGL
11/11/98	Perchlorate		91	4.000	UGL
11/20/98	Sodium, Total, ICAP		66.3	1.000	MGL
11/06/98	Specific Conductance		335	4.000	UMHO
11/04/98	Sulfate		4.66	2.000	MGL
11/05/98	Total Dissolved Solid (TDS)		180	10.000	MGL
Analyzed	981103158	MW-984-005			
11/03/98	Alkalinity		149	2.000	MGL
11/19/98	Anion Sum		3.55	.001	MEQL
11/10/98	Bicarbonate as HCO3,calculated		181	.001	MGL
11/20/98	Calcium, Total, ICAP		17.4	1.000	MGL
11/10/98	Carbonate as CO3, Calculated		2.95	.001	MGL
11/20/98	Cation Sum		3.50	.001	MEQL
11/04/98	Chloride		10.5	1.000	MGL
11/14/98	Iron, Total, ICAP/MS		210	******	UGL
11/05/98	Lab pH		8.4	.001	UNIT
11/20/98	Magnesium, Total, ICAP		7.72	.100	MGL
11/04/98	Nitrate-N by IC		0.16	.100	MGL
11/20/98	Potassium, Total, ICAP		1.68	1.000	MGL
11/20/98	Sodium, Total, ICAP		45.0	1.000	MGL
11/06/98	Specific Conductance		370	4.000	UMHO
11/04/98	Sulfate		12.8	2.000	MGL
11/05/98	Total Dissolved Solid (TDS)		200	10.000	MGL
Analyzed	981103159	MW-984-004			
11/06/98	Carbon Tetrachloride		5.8	.500	UGL
11/10/98	Chloroform (Trichloromethane)		21	1.000	UGL
11/06/98	Trichloroethylene (TCE)		0.7	.500	UGL
11/03/98	Alkalinity		160	2.000	MGL
11/19/98	Anion Sum		4.47	.001	MEQL
11/10/98	Bicarbonate as HCO3,calculated		194	.001	MGL
11/20/98	Calcium, Total, ICAP		27.3	1.000	MGL
11/10/98	Carbonate as CO3, Calculated		2.52	.001	MGL
11/20/98	Cation Sum		4.27	.001	MEQL
11/04/98	Chloride		19.7	1.000	MGL

11/14/98	Iron, Total, ICAP/MS	250	******	UGL
11/05/98	Lab pH	8.3	.001	UNIT
11/20/98	Magnesium, Total, ICAP	12.9	.100	MGL
11/04/98	Nitrate-N by IC	0.10	.100	MGL
11/20/98	Potassium, Total, ICAP	2.84	1.000	MGL
11/20/98	Sodium, Total, ICAP	40.7	1.000	MGL
11/06/98	Specific Conductance	460	4.000	UMHO
11/04/98	Sulfate	34.0	2.000	MGL
11/10/98	Total Dissolved Solid (TDS)	260	10.000	MGL

Analyzed 981103160 MW-984-003

11/03/98	Alkalinity	193	2.000	MGL
11/19/98	Anion Sum	5.06	.001	MEQL
11/10/98	Bicarbonate as HCO3,calculated	235	.001	MGL
11/20/98	Calcium, Total, ICAP	50.3	1.000	MGL
11/10/98	Carbonate as CO3, Calculated	0.765	.001	MGL
11/20/98	Cation Sum	4.91	.001	MEQL
11/04/98	Chloride	12.8	1.000	MGL
11/14/98	Iron, Total, ICAP/MS	590	******	UGL
11/05/98	Lab pH	7.7	.001	UNIT
11/20/98	Magnesium, Total, ICAP	18.1	.100	MGL
11/04/98	Nitrate-N by IC	0.87	.100	MGL
11/20/98	Potassium, Total, ICAP	2.46	1.000	MGL
11/20/98	Sodium, Total, ICAP	19.4	1.000	MGL
11/06/98	Specific Conductance	510	4.000	UMHO
11/04/98	Sulfate	37.4	2.000	MGL
11/10/98	Total Dissolved Solid (TDS)	290	10.000	MGL

Analyzed 981103161 MW-984-002

11/03/98	Alkalinity	130	2.000	MGL
11/19/98	Anion Sum	3.13	.001	MEQL
11/10/98	Bicarbonate as HCO3,calculated	158	.001	MGL
11/20/98	Calcium, Total, ICAP	27.3	1.000	MGL
11/10/98	Carbonate as CO3, Calculated	1.03	.001	MGL
11/20/98	Cation Sum	3.14	.001	MEQL
11/04/98	Chloride	3.91	1.000	MGL
11/14/98	Iron, Total, ICAP/MS	770	******	UGL
11/05/98	Lab pH	8.0	.001	UNIT
11/20/98	Magnesium, Total, ICAP	11.8	.100	MGL
11/04/98	Nitrate-N by IC	0.50	.100	MGL
11/20/98	Potassium, Total, ICAP	2.41	1.000	MGL
11/20/98	Sodium, Total, ICAP	17.0	1.000	MGL
11/06/98	Specific Conductance	325	4.000	UMHO
11/04/98	Sulfate	18.3	2.000	MGL
11/10/98	Total Dissolved Solid (TDS)	180	10.000	MGL

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory Report

for

Foster Wheeler Environmental, Inc
611 Anton Boulevard

Suite 800

Costa Mesa , CA 92626

Attention: Mark Cutler
Fax: (714)444-5560

MONTGOMERY WATSON LABS.
SUBMITTED ON
NOV 30 1998
DEB* Debbie Frank

Report#: 48855
JPL

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory Report #48855

Foster Wheeler Environmental, Inc
Mark Cutler
611 Anton Boulevard
Suite 800
Costa Mesa , CA 92626

Samples Received
03-nov-1998 14:57:14

MW-984-096 (981103155) Sampled on 11/03/98

Regulated VOCs plus Lists 1&3

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	11/06/98	87019	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	11/06/98	87019	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	11/06/98	87019	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 8324
1 800 566 LABS (1 800 566 5227)

Laboratory Report #48855

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	11/06/98	87019	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	113	% Rec		
			(Surrogate)	4-Bromofluorobenzene	106	% Rec		
			(Surrogate)	Toluene-d8	101	% Rec		

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory Report #48855

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-984-095 (981103156) Sampled on 11/03/98								
11/12/98	11/16/98	87328	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	11/11/98	87108	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
11/12/98	11/14/98	87248	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	11/03/98	86719	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
11/12/98	11/14/98	87250	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
			Regulated VOCs plus Lists 1&3					
	11/06/98	87019	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	11/06/98	87019	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	11/06/98	87019	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	11/06/98	87019	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	112	% Rec		
			(Surrogate)	4-Bromofluorobenzene	111	% Rec		

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
			(Surrogate)	Toluene-d8	104	% Rec		
MW-984-006 (981103157) Sampled on 11/03/98								
	11/03/98	86970	(ML/S2320B)	Alkalinity	130	mg/l	2.0	1
	11/19/98		(ML/SM1040)	Anion Sum	2.99	meq/l	0.0010	1
11/12/98	11/16/98	87328	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
11/20/98	11/20/98	87577	(EPA/ML 200.7)	Calcium, Total, ICAP	3.50	mg/l	1.0	1
	11/20/98		(ML/SM1040)	Cation Sum	3.11	meq/l	0.0010	1
	11/04/98	87344	(ML/EPA 300)	Chloride	9.77	mg/l	1.0	1
	11/11/98	87108	(MOD/EPA 300)	Perchlorate	91	ug/l	4.0	1
	11/10/98		(ML/S2320-B)	Carbonate as CO3, Calculated	15.7	mg/l	0.0010	1
11/12/98	11/14/98	87248	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	11/03/98	86719	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	11/06/98	86845	(ML/S2510B)	Specific Conductance	335	umho/cm	4.0	1
11/12/98	11/14/98	87249	(EPA/ML 200.8)	Iron, Total, ICAP/MS	860	ug/l	100	1
	11/10/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	152	mg/l	0.0010	1
11/20/98	11/20/98	87578	(ML/EPA 200.7)	Potassium, Total, ICAP	ND	mg/l	1.0	1
11/20/98	11/20/98	87579	(ML/EPA 200.7)	Magnesium, Total, ICAP	0.68	mg/l	0.10	1
11/20/98	11/20/98	87580	(ML/EPA 200.7)	Sodium, Total, ICAP	66.3	mg/l	1.0	1
	11/04/98	87346	(ML/EPA 300.0)	Nitrate-N by IC	0.28	mg/l	0.10	1
11/12/98	11/14/98	87250	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	11/05/98	86883	(ML/SM 4500H)	Lab pH	9.2	Units	0.0010	1
	11/04/98	87347	(ML/EPA 300.0)	Sulfate	4.66	mg/l	2.0	1
	11/05/98	86956	(ML/S2540C)	Total Dissolved Solid (TDS)	180	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	11/06/98	87019	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	11/06/98	87019	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	11/06/98	87019	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	11/06/98	87019	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	11/06/98	87019	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	112	% Rec		
			(Surrogate)	4-Bromofluorobenzene	111	% Rec		
			(Surrogate)	Toluene-d8	103	% Rec		

MW-984-005 (981103158) Sampled on 11/03/98

	11/03/98	86970	(ML/S2320B)	Alkalinity	149	mg/l	2.0	1
	11/19/98		(ML/SM1040)	Anion Sum	3.55	meq/l	0.0010	1
11/12/98	11/24/98	87328	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
11/20/98	11/20/98	87577	(EPA/ML 200.7)	Calcium, Total, ICAP	17.4	mg/l	1.0	1
	11/20/98		(ML/SM1040)	Cation Sum	3.50	meq/l	0.0010	1
	11/04/98	87344	(ML/EPA 300)	Chloride	10.5	mg/l	1.0	1
	11/11/98	87108	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	11/10/98		(ML/S2320-B)	Carbonate as CO3, Calculated	2.95	mg/l	0.0010	1
11/12/98	11/14/98	87248	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	11/03/98	86719	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	11/06/98	86845	(ML/S2510B)	Specific Conductance	370	umho/cm	4.0	1
11/12/98	11/14/98	87249	(EPA/ML 200.8)	Iron, Total, ICAP/MS	210	ug/l	100	1
	11/10/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	181	mg/l	0.0010	1
11/20/98	11/20/98	87578	(ML/EPA 200.7)	Potassium, Total, ICAP	1.68	mg/l	1.0	1
11/20/98	11/20/98	87579	(ML/EPA 200.7)	Magnesium, Total, ICAP	7.72	mg/l	0.10	1
11/20/98	11/20/98	87580	(ML/EPA 200.7)	Sodium, Total, ICAP	45.0	mg/l	1.0	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 8324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	11/04/98	87346	(ML/EPA 300.0)	Nitrate-N by IC	0.16	mg/l	0.10	1
11/12/98	11/14/98	87250	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	11/05/98	86883	(ML/SM 4500H)	Lab pH	8.4	Units	0.0010	1
	11/04/98	87347	(ML/EPA 300.0)	Sulfate	12.8	mg/l	2.0	1
	11/05/98	86956	(ML/S2540C)	Total Dissolved Solid (TDS)	200	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	11/06/98	87019	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	11/06/98	87019	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	11/06/98	87019	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	11/06/98	87019	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	109	% Rec		
			(Surrogate)	4-Bromofluorobenzene	97	% Rec		
			(Surrogate)	Toluene-d8	102	% Rec		

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-984-004 (981103159) Sampled on 11/03/98								
	11/03/98	86970	(ML/S2320B)	Alkalinity	160	mg/l	2.0	1
	11/19/98		(ML/SM1040)	Anion Sum	4.47	meq/l	0.0010	1
11/12/98	11/24/98	87328	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
11/20/98	11/20/98	87577	(EPA/ML 200.7)	Calcium, Total, ICAP	27.3	mg/l	1.0	1
	11/20/98		(ML/SM1040)	Cation Sum	4.27	meq/l	0.0010	1
	11/04/98	87344	(ML/EPA 300)	Chloride	19.7	mg/l	1.0	1
	11/11/98	87108	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	11/10/98		(ML/S2320-B)	Carbonate as CO3, Calculated	2.52	mg/l	0.0010	1
11/12/98	11/14/98	87248	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	11/03/98	86719	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	11/06/98	86845	(ML/S2510B)	Specific Conductance	460	umho/cm	4.0	1
11/12/98	11/14/98	87249	(EPA/ML 200.8)	Iron, Total, ICAP/MS	250	ug/l	100	1
	11/10/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	194	mg/l	0.0010	1
11/20/98	11/20/98	87578	(ML/EPA 200.7)	Potassium, Total, ICAP	2.84	mg/l	1.0	1
11/20/98	11/20/98	87579	(ML/EPA 200.7)	Magnesium, Total, ICAP	12.9	mg/l	0.10	1
11/20/98	11/20/98	87580	(ML/EPA 200.7)	Sodium, Total, ICAP	40.7	mg/l	1.0	1
	11/04/98	87346	(ML/EPA 300.0)	Nitrate-N by IC	0.10	mg/l	0.10	1
11/12/98	11/14/98	87250	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	11/05/98	86883	(ML/SM 4500H)	Lab pH	8.3	Units	0.0010	1
	11/04/98	87347	(ML/EPA 300.0)	Sulfate	34.0	mg/l	2.0	1
	11/10/98	87107	(ML/S2540C)	Total Dissolved Solid (TDS)	260	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	11/06/98	87019	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	11/06/98	87019	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	11/06/98	87019	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	11/06/98	87019	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Carbon Tetrachloride	5.8	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	11/10/98	87019	(ML/EPA 524.2)	Chloroform (Trichloromethane)	21	ug/l	1.0	2
	11/06/98	87019	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	11/06/98	87019	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Trichloroethylene (TCE)	0.7	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	Carbon disulfide	2.7	ug/L		1
			(Surrogate)	1,2-Dichloroethane-d4	112	% Rec		
			(Surrogate)	4-Bromofluorobenzene	100	% Rec		
			(Surrogate)	Toluene-d8	96	% Rec		

MW-984-003 (981103160) Sampled on 11/03/98

	11/03/98	86970	(ML/S2320B)	Alkalinity	193	mg/l	2.0	1
	11/19/98		(ML/SM1040)	Anion Sum	5.06	meq/l	0.0010	1
11/12/98	11/24/98	87328	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
11/20/98	11/20/98	87577	(EPA/ML 200.7)	Calcium, Total, ICAP	50.3	mg/l	1.0	1
	11/20/98		(ML/SM1040)	Cation Sum	4.91	meq/l	0.0010	1
	11/04/98	87344	(ML/EPA 300)	Chloride	12.8	mg/l	1.0	1
	11/11/98	87108	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	11/10/98		(ML/S2320-B)	Carbonate as CO3, Calculated	0.765	mg/l	0.0010	1
11/12/98	11/14/98	87248	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	11/03/98	86719	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	11/06/98	86845	(ML/S2510B)	Specific Conductance	510	umho/cm	4.0	1
11/12/98	11/14/98	87249	(EPA/ML 200.8)	Iron, Total, ICAP/MS	590	ug/l	100	1
	11/10/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	235	mg/l	0.0010	1
11/20/98	11/20/98	87578	(ML/EPA 200.7)	Potassium, Total, ICAP	2.46	mg/l	1.0	1
11/20/98	11/20/98	87579	(ML/EPA 200.7)	Magnesium, Total, ICAP	18.1	mg/l	0.10	1
11/20/98	11/20/98	87580	(ML/EPA 200.7)	Sodium, Total, ICAP	19.4	mg/l	1.0	1
	11/04/98	87346	(ML/EPA 300.0)	Nitrate-N by IC	0.87	mg/l	0.10	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
11/12/98	11/14/98	87250	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	11/05/98	86883	(ML/SM 4500H)	Lab pH	7.7	Units	0.0010	1
	11/04/98	87347	(ML/EPA 300.0)	Sulfate	37.4	mg/l	2.0	1
	11/10/98	87107	(ML/S2540C)	Total Dissolved Solid (TDS)	290	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	11/06/98	87019	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	11/06/98	87019	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	11/06/98	87019	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory Report #48855

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	11/06/98	87019	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	106	% Rec		
			(Surrogate)	4-Bromofluorobenzene	105	% Rec		
			(Surrogate)	Toluene-d8	100	% Rec		

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-984-002 (981103161) Sampled on 11/03/98								
	11/03/98	86970	(ML/S2320B)	Alkalinity	130	mg/l	2.0	1
	11/19/98		(ML/SM1040)	Anion Sum	3.13	meq/l	0.0010	1
11/12/98	11/24/98	87328	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
11/20/98	11/20/98	87577	(EPA/ML 200.7)	Calcium, Total, ICAP	27.3	mg/l	1.0	1
	11/20/98		(ML/SM1040)	Cation Sum	3.14	meq/l	0.0010	1
	11/04/98	87344	(ML/EPA 300)	Chloride	3.91	mg/l	1.0	1
	11/11/98	87108	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	11/10/98		(ML/S2320-B)	Carbonate as CO3, Calculated	1.03	mg/l	0.0010	1
11/12/98	11/14/98	87248	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	11/03/98	86719	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	11/06/98	86845	(ML/S2510B)	Specific Conductance	325	umho/cm	4.0	1
11/12/98	11/14/98	87249	(EPA/ML 200.8)	Iron, Total, ICAP/MS	770	ug/l	100	1
	11/10/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	158	mg/l	0.0010	1
11/20/98	11/20/98	87578	(ML/EPA 200.7)	Potassium, Total, ICAP	2.41	mg/l	1.0	1
11/20/98	11/20/98	87579	(ML/EPA 200.7)	Magnesium, Total, ICAP	11.8	mg/l	0.10	1
11/20/98	11/20/98	87580	(ML/EPA 200.7)	Sodium, Total, ICAP	17.0	mg/l	1.0	1
	11/04/98	87346	(ML/EPA 300.0)	Nitrate-N by IC	0.50	mg/l	0.10	1
11/12/98	11/14/98	87250	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	11/05/98	86883	(ML/SM 4500H)	Lab pH	8.0	Units	0.0010	1
	11/04/98	87347	(ML/EPA 300.0)	Sulfate	18.3	mg/l	2.0	1
	11/10/98	87107	(ML/S2540C)	Total Dissolved Solid (TDS)	180	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	11/06/98	87019	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	11/06/98	87019	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	11/06/98	87019	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	11/06/98	87019	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	11/06/98	87019	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	11/06/98	87019	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	106	% Rec		
			(Surrogate)	4-Bromofluorobenzene	111	% Rec		
			(Surrogate)	Toluene-d8	104	% Rec		

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory QC Report #48855

Foster Wheeler Environmental, Inc

QC Batch #86719 Hexavalent chromium (Cr VI)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1103161		(0.00 - 0.00)	
LCS1	Hexavalent chromium (Cr VI)	0.050	0.0504	100.8	(78.00 - 118.00)	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.0497	99.4	(78.00 - 118.00)	1.4
MBLK	Hexavalent chromium (Cr VI)	ND				
MS	Hexavalent chromium (Cr VI)	0.050	0.0497	99.4	(80.00 - 120.00)	
MSD	Hexavalent chromium (Cr VI)	0.050	0.0497	99.4	(80.00 - 120.00)	0.00

QC Batch #86845 Specific Conductance

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 98	1104206		(0.00 - 0.00)	

QC Batch #86883 Lab pH

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	lab # 98	1104208		(0.00 - 0.00)	

QC Batch #86956 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 98	1012062		(0.00 - 0.00)	
LCS1	Total Dissolved Solid (TDS)	175	166	94.9	(85.00 - 115.00)	
LCS2	Total Dissolved Solid (TDS)	700	662	94.6	(85.00 - 115.00)	
MBLK	Total Dissolved Solid (TDS)	ND				

QC Batch #86970 Alkalinity

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1030239		(0.00 - 0.00)	
LCS1	Alkalinity	96.2	97.3	101.1	(90.00 - 110.00)	
LCS2	Alkalinity	96.2	97.5	101.4	(90.00 - 110.00)	0.21
MBLK	Alkalinity	ND				

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory
QC Report
#48855

Foster Wheeler Environmental, Inc
(continued)

MS	Alkalinity	96.2	90.0	93.6	(80.00 - 120.00)	
MSD	Alkalinity	96.2	91.0	94.6	(80.00 - 120.00)	1.1

QC Batch #87019 Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	8	7.29	91.1	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	8	7.13	89.1	(70.00 - 130.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	8	7.36	92.0	(70.00 - 130.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	8	7.21	90.1	(70.00 - 130.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	8	7.66	95.8	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MS	1,1-Dichloroethylene	8	7.15	89.4	(70.00 - 130.00)	
MSD	1,1-Dichloroethylene	8	7.52	94.0	(70.00 - 130.00)	5.0
MBLK	1,1-Dichloropropene	ND				
MBLK	1,2,3-Trichlorobenzene	ND				
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	8	8.12	101.5	(70.00 - 130.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	8	7.60	95.0	(70.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	8	7.74	96.8	(70.00 - 130.00)	
MBLK	1,2-Dichloropropane	ND				
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	16	13.4	83.8	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
LCS1	p-Dichlorobenzene (1,4-DCB)	8	8.07	100.9	(70.00 - 130.00)	
MBLK	p-Dichlorobenzene (1,4-DCB)	ND				
MBLK	2,2-Dichloropropane	ND				
MBLK	2-Butanone (MEK)	ND				

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory
QC Report
#48855

Foster Wheeler Environmental, Inc
(continued)

MBLK	2-Chloroethylvinylether	ND				
MBLK	o-Chlorotoluene	ND				
MBLK	p-Chlorotoluene	ND				
MBLK	4-Methyl-2-Pentanone (MIBK)	ND				
MS	Spiked sample	Lab # 98	10302238		(0.00 - 0.00)	
LCS1	Benzene	8	7.38	92.2	(70.00 - 130.00)	
MBLK	Benzene	ND				
MS	Benzene	8	7.73	96.6	(70.00 - 130.00)	
MSD	Benzene	8	7.43	92.9	(70.00 - 130.00)	4.0
MBLK	Bromobenzene	ND				
MBLK	Bromomethane (Methyl Bromide)	ND				
LCS1	cis-1,2-Dichloroethylene	8	8.05	100.6	(70.00 - 130.00)	
MBLK	cis-1,2-Dichloroethylene	ND				
LCS1	Chlorobenzene	8	8.16	102.0	(70.00 - 130.00)	
MBLK	Chlorobenzene	ND				
MS	Chlorobenzene	8	7.93	99.1	(70.00 - 130.00)	
MSD	Chlorobenzene	8	7.66	95.8	(70.00 - 130.00)	3.5
LCS1	Carbon Tetrachloride	8	7.11	88.9	(70.00 - 130.00)	
MBLK	Carbon Tetrachloride	ND				
MBLK	cis-1,3-Dichloropropene	ND				
LCS1	Bromoform	8	7.10	88.8	(70.00 - 130.00)	
MBLK	Bromoform	ND				
LCS1	Chloroform (Trichloromethane)	8	7.56	94.5	(70.00 - 130.00)	
MBLK	Chloroform (Trichloromethane)	ND				
MBLK	Bromochloromethane	ND				
MBLK	Chloroethane	ND				
MBLK	Chloromethane(Methyl Chloride)	ND				
LCS1	Chlorodibromomethane	8	7.32	91.5	(70.00 - 130.00)	
MBLK	Chlorodibromomethane	ND				
MBLK	Dibromomethane	ND				
LCS1	Bromodichloromethane	8	7.65	95.6	(70.00 - 130.00)	
MBLK	Bromodichloromethane	ND				
LCS1	Dichloromethane	8	7.49	93.6	(70.00 - 130.00)	
MBLK	Dichloromethane	ND				
LCS1	Ethyl benzene	8	7.99	99.9	(70.00 - 130.00)	
MBLK	Ethyl benzene	ND				
MBLK	Dichlorodifluoromethane	ND				

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

LCS1	Fluorotrichloromethane-Freon11	4	4.13	103.2	(70.00 - 130.00)	
MBLK	Fluorotrichloromethane-Freon11	ND				
MBLK	Hexachlorobutadiene	ND				
MBLK	Isopropylbenzene	ND				
MBLK	m-Dichlorobenzene (1,3-DCB)	ND				
LCS1	m,p-Xylenes	16	16.7	104.4	(70.00 - 130.00)	
MBLK	m,p-Xylenes	ND				
MBLK	Naphthalene	ND				
MBLK	n-Butylbenzene	ND				
MBLK	n-Propylbenzene	ND				
LCS1	o-Xylene	8	8.55	106.9	(70.00 - 130.00)	
MBLK	o-Xylene	ND				
LCS1	o-Dichlorobenzene (1,2-DCB)	8	7.88	98.5	(70.00 - 130.00)	
MBLK	o-Dichlorobenzene (1,2-DCB)	ND				
LCS1	Tetrachloroethylene (PCE)	8	7.56	94.5	(70.00 - 130.00)	
MBLK	Tetrachloroethylene (PCE)	ND				
MBLK	p-Isopropyltoluene	ND				
MBLK	sec-Butylbenzene	ND				
LCS1	Styrene	8	8.36	104.5	(70.00 - 130.00)	
MBLK	Styrene	ND				
LCS1	1,2-dichloroethane-d4	100	101	101.0	(80.00 - 120.00)	
MBLK	1,2-dichloroethane-d4	100	90.6	90.6		
MS	1,2-dichloroethane-d4	100	107	107.0	(80.00 - 120.00)	
MSD	1,2-dichloroethane-d4	100	111	111.0	(80.00 - 120.00)	3.7
LCS1	Toluene-d8	100	108	108.0	(80.00 - 120.00)	
MBLK	Toluene-d8	100	106	106.0		
MS	Toluene-d8	100	101	101.0	(80.00 - 120.00)	
MSD	Toluene-d8	100	102	102.0	(80.00 - 120.00)	0.99
LCS1	4-Bromofluorobenzene	100	103	103.0	(80.00 - 120.00)	
MBLK	4-Bromofluorobenzene	100	109	109.0		
MS	4-Bromofluorobenzene	100	102	102.0	(80.00 - 120.00)	
MSD	4-Bromofluorobenzene	100	105	105.0	(80.00 - 120.00)	2.9
LCS1	trans-1,2-Dichloroethylene	8	7.42	92.8	(70.00 - 130.00)	
MBLK	trans-1,2-Dichloroethylene	ND				
MBLK	tert-Butylbenzene	ND				
LCS1	Trichloroethylene (TCE)	8	7.09	88.6	(70.00 - 130.00)	
MBLK	Trichloroethylene (TCE)	ND				

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

MS	Trichloroethylene (TCE)	8	7.42	92.8	(70.00 - 130.00)	
MSD	Trichloroethylene (TCE)	8	7.43	92.9	(70.00 - 130.00)	0.13
LCS1	Trichlorotrifluoroethane(Freon	4	3.51	87.8	(70.00 - 130.00)	
MBLK	Trichlorotrifluoroethane(Freon	ND				
MBLK	trans-1,3-Dichloropropene	ND				
LCS1	Toluene	8	8.05	100.6	(70.00 - 130.00)	
MBLK	Toluene	ND				
MS	Toluene	8	7.50	93.8	(70.00 - 130.00)	
MSD	Toluene	8	7.34	91.8	(70.00 - 130.00)	2.2
LCS1	Vinyl chloride (VC)	4	4.57	114.2	(70.00 - 130.00)	
MBLK	Vinyl chloride (VC)	ND				

QC Batch #87107 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 98	1103159		(0.00 - 0.00)	
LCS1	Total Dissolved Solid (TDS)	175	166	94.9	(85.00 - 115.00)	
LCS2	Total Dissolved Solid (TDS)	700	658	94.0	(85.00 - 115.00)	
MBLK	Total Dissolved Solid (TDS)	ND				

QC Batch #87108 Perchlorate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1102362		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	21.3	106.5	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	21.0	105.0	(90.00 - 110.00)	1.4
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	21.9	109.5	(75.00 - 125.00)	
MSD	Perchlorate	20.0	24.1	120.5	(75.00 - 125.00)	9.6

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory
QC Report
#48855

Foster Wheeler Environmental, Inc
(continued)

QC Batch #87248 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab# 98	1103158		(0.00 - 0.00)	
LCS1	Chromium, Total, ICAP/MS	100	98	98.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	102	102.0	(85.00 - 115.00)	4.0
MBLK	Chromium, Total, ICAP/MS	ND				
MS	Chromium, Total, ICAP/MS	100	94	94.0	(70.00 - 130.00)	
MSD	Chromium, Total, ICAP/MS	100	99	99.0	(70.00 - 130.00)	5.2

QC Batch #87249 Iron, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1103158		(0.00 - 0.00)	
LCS1	Iron, Total, ICAP/MS	500	489	97.8	(85.00 - 115.00)	
LCS2	Iron, Total, ICAP/MS	500	511	102.2	(85.00 - 115.00)	4.4
MBLK	Iron, Total, ICAP/MS	ND				
MS	Iron, Total, ICAP/MS	500	487	97.4	(70.00 - 130.00)	
MSD	Iron, Total, ICAP/MS	500	500	100.0	(70.00 - 130.00)	2.6

QC Batch #87250 Lead, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab #98	1103158		(0.00 - 0.00)	
LCS1	Lead, Total, ICAP/MS	20.0	20.2	101.0	(85.00 - 115.00)	
LCS2	Lead, Total, ICAP/MS	20.0	21.4	107.0	(85.00 - 115.00)	5.8
MBLK	Lead, Total, ICAP/MS	ND				
MS	Lead, Total, ICAP/MS	20.0	21.6	108.0	(70.00 - 130.00)	
MSD	Lead, Total, ICAP/MS	20.0	21.7	108.5	(70.00 - 130.00)	0.46

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

QC Batch #87328 Arsenic, Total, GF

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab #98	1103158		(0.00 - 0.00)	
LCS1	Arsenic, Total, GF	0.020	0.0170	85.0	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.0188	94.0	(85.00 - 115.00)	10
MBLK	Arsenic, Total, GF	ND				
MS	Arsenic, Total, GF	0.020	0.0205	102.5	(70.00 - 130.00)	
MSD	Arsenic, Total, GF	0.020	0.0206	103.0	(70.00 - 130.00)	0.49

QC Batch #87344 Chloride

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1103157		(0.00 - 0.00)	
LCS1	Chloride	25	25.8	103.2	(90.00 - 110.00)	
LCS2	Chloride	25	25.6	102.4	(90.00 - 110.00)	0.78
MBLK	Chloride	ND				
MS	Chloride	25	25.4	101.6	(80.00 - 120.00)	
MSD	Chloride	25	25.4	101.6	(80.00 - 120.00)	0.00

QC Batch #87346 Nitrate-N by IC

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1103157		(0.00 - 0.00)	
LCS1	Nitrate-N by IC	2.5	2.56	102.4	(90.00 - 110.00)	
LCS2	Nitrate-N by IC	2.5	2.55	102.0	(90.00 - 110.00)	0.39
MBLK	Nitrate-N by IC	ND				
MS	Nitrate-N by IC	2.5	2.41	96.4	(80.00 - 120.00)	
MSD	Nitrate-N by IC	2.5	2.41	96.4	(80.00 - 120.00)	0.00

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

QC Batch #87347 Sulfate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1103157		(0.00 - 0.00)	
LCS1	Sulfate	50	50.9	101.8	(90.00 - 110.00)	
LCS2	Sulfate	50	50.6	101.2	(90.00 - 110.00)	0.59
MBLK	Sulfate	ND				
MS	Sulfate	50	49.1	98.2	(80.00 - 120.00)	
MSD	Sulfate	50	49.2	98.4	(80.00 - 120.00)	0.20

QC Batch #87577 Calcium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1102360		(0.00 - 0.00)	
LCS1	Calcium, Total, ICAP	50	49.2	98.4	(85.00 - 115.00)	
LCS2	Calcium, Total, ICAP	50	49.5	99.0	(85.00 - 115.00)	0.61
MBLK	Calcium, Total, ICAP	ND				
MS	Calcium, Total, ICAP	50	49.4	98.8	(70.00 - 130.00)	
MSD	Calcium, Total, ICAP	50	49.6	99.2	(70.00 - 130.00)	0.40

QC Batch #87578 Potassium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1102360		(0.00 - 0.00)	
LCS1	Potassium, Total, ICAP	20	19.4	97.0	(80.00 - 110.00)	
LCS2	Potassium, Total, ICAP	20	19.5	97.5	(80.00 - 110.00)	0.51
MBLK	Potassium, Total, ICAP	ND				
MS	Potassium, Total, ICAP	20	20.0	100.0	(80.00 - 120.00)	
MSD	Potassium, Total, ICAP	20	20.0	100.0	(80.00 - 120.00)	0.00

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

QC Batch #87579 Magnesium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1102360		(0.00 - 0.00)	
LCS1	Magnesium, Total, ICAP	20	20.2	101.0	(85.00 - 115.00)	
LCS2	Magnesium, Total, ICAP	20	20.3	101.5	(85.00 - 115.00)	0.49
MBLK	Magnesium, Total, ICAP	ND				
MS	Magnesium, Total, ICAP	20	20.0	100.0	(70.00 - 130.00)	
MSD	Magnesium, Total, ICAP	20	20.1	100.5	(70.00 - 130.00)	0.50

QC Batch #87580 Sodium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1102360		(0.00 - 0.00)	
LCS1	Sodium, Total, ICAP	50	50.2	100.4	(85.00 - 115.00)	
LCS2	Sodium, Total, ICAP	50	50.5	101.0	(85.00 - 115.00)	0.60
MBLK	Sodium, Total, ICAP	ND				
MS	Sodium, Total, ICAP	50	49.1	98.2	(70.00 - 130.00)	
MSD	Sodium, Total, ICAP	50	50.2	100.4	(70.00 - 130.00)	2.2

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES

December 4, 1998

Foster Wheeler Environmental
611 Anton Blvd Suite 800
Costa Mesa, CA.92626

Attention: Mark Cutler

Re: Report # 48931 (MW-984-098, -097, -044, -043, -041, -040)

Dear Mark,

Enclosed please find data deliverables for the recent JPL project. A detailed quality control (QC) summary follows:

Non-conformance (LCS, MS/MSD, Surrogates, and Holding Times):
None
Samples requiring dilution (with increased MRL's):
Diluted for Anions: MW-984-041, -043, -044
Method blanks with compounds detected:
None
Other Comments:
Dichloromethane was detected in sample ID: MW-984-097
Chloroform was detected in sample ID: MW-984-044, -043, -041
Tetrachloroethylene was detected in sample ID: MW-984-044, -043
Trichloroethylene was detected in sample ID: MW-984-044, -043
Perchlorate was detected in sample ID: MW-984-044, -043
TICS:
None
Method Variance:
None

Sincerely,

Debbie Frank
Project Manager

cc: Judy Novelly (JPL)

a Division of Montgomery Watson Americas, Inc.

555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400
Fax: 626 568 6324

4820 South Mill Avenue
Suite 202
Tempe, Arizona 85282
Tel: 602 755 8201
Fax: 602 755 8203

Quality Environmental Analysis

Montgomery Watson Laboratories
, Los Angeles, CA 90051-3508
PHONE: 626-568-6400/FAX: 626-568-6324

ACKNOWLEDGMENT OF SAMPLES RECEIVED

Foster Wheeler Environmental, Inc
611 Anton Boulevard
Suite 800
Costa Mesa, CA 92626
Attn: Mark Cutler

Customer Code: ENSERCH
PO#: Sub PO#007618-0004
Group#: 48931
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

The following samples were received from you on 11/04/98. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using Montgomery Watson Laboratories.

Sample#	Sample Id	Tests Scheduled	Matrix				Sample Date
981104203	MW-984-098		Water				11/04/98
		@EBASVOA					
981104204	MW-984-097		Water				11/04/98
		@EBASVOA	AS-EBAS	CR-EBAS	PB-EBAS	CR-VI	
		CLO4					
981104205	MW-984-044		Water				11/04/98
		@EBASVOA	CR-VI	PB-EBAS	CR-EBAS	AS-EBAS	
		TDS	CATION1	ANION1	PH	EC	HCO3
		CO3	ALK	NO3	SO4	CL	FE-MS
		K	NA	MG	CA	CLO4	
981104206	MW-984-043		Water				11/04/98
		@EBASVOA	CLO4	CA	MG	NA	
		K	FE-MS	CL	SO4	NO3	ALK
		CO3	HCO3	EC	PH	ANION1	CATIO
		TDS	AS-EBAS	CR-EBAS	PB-EBAS	CR-VI	
981104207	MW-984-041		Water				11/04/98
		@EBASVOA	CLO4	CA	MG	NA	
		K	FE-MS	CL	SO4	NO3	ALK
		CO3	HCO3	EC	PH	ANION1	CATIO
		TDS	AS-EBAS	CR-EBAS	PB-EBAS	CR-VI	
981104208	MW-984-040		Water				11/04/98
		@EBASVOA	CLO4	CA	MG	NA	
		K	FE-MS	CL	SO4	NO3	ALK
		CO3	HCO3	EC	PH	ANION1	CATIO
		TDS	AS-EBAS	CR-EBAS	PB-EBAS	CR-VI	

Test Acronym Description

Test Acronym	Description
@EBASVOA	Regulated VOCs plus Lists 1&3
ALK	Alkalinity
ANION1	Anion Sum

Foster Wheeler Environmental, Inc
611 Anton Boulevard
Suite 800
Costa Mesa, CA 92626
Attn: Mark Cutler

Customer Code: ENSERCH
PO#: Sub PO#007618-0004
Group#: 48931
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

Test Acronym Description

Test Acronym	Description
AS-EBAS	Arsenic, Total, GF
CA	Calcium, Total, ICAP
CATION1	Cation Sum
CL	Chloride
CLO4	Perchlorate
CO3	Carbonate as CO3, Calculated
CR-EBAS	Chromium, Total, ICAP/MS
CR-VI	Hexavalent chromium (Cr VI)
EC	Specific Conductance
FE-MS	Iron, Total, ICAP/MS
HCO3	Bicarbonate as HCO3,calculated
K	Potassium, Total, ICAP
MG	Magnesium, Total, ICAP
NA	Sodium, Total, ICAP
NO3	Nitrate-N by IC
PB-EBAS	Lead, Total, ICAP/MS
PH	Lab pH
SO4	Sulfate
TDS	Total Dissolved Solid (TDS)

NUMBER 6100

48931

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PROJECT: JPL

OFS NO.: 1572.0260

PROJECT ADDRESS: 4800 OAK GROVE DR PASADENA CA

SAMPLER (Name): B. DUMESNIL

SAMPLER (Signature):

LABORATORY: MONTGOMERY WATSON LABS

REPORTS TO BE SENT TO: MR. MARK CUTLER

HAZARD IDENTIFICATION: Non Hazard ☒ Reactive ☐ Flammable ☐ Toxic ☐ Skin Irritant ☐ Infectious ☐

TIME REQUIRED: NORMAL ☒ ____ DAYS; RUSH ☐ ____ DAYS

ANALYSES REQUIRED

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL: WATER	SOIL	OTHER (Describe)	VOCs (524.2)	TOTAL Pb, Cr, Pb (1,2,3,4/7,8,9)	MANG, TDS, ANIONS	Hex Cr	Perchlorate	MS for VOCs	MSD for VOCs	MS/MSD for Metals	QC for Cr	
MW 934-098	1000	11/4/98	2	2x40ml	X			X									
MW 934-097	1130		5	2x40ml 1x250ml 2x125ml	X			X	X		X	X					
MW 934-044	0930		6	2x40ml 1x250ml 2x125ml 1x500ml	X			X	X	X	X	X					
MW 934-043	1110		6	↓	X			X	X	X	X	X					
MW 934-041	1240		6	2x40ml 2x500ml 2x125ml	X			X	X	X	X	X			X		
MW 934-041MS	1240		2	2x40ml	X								X				
MW 934-041MSD	1240		2	2x40ml										X			
MW 934-042	1345	↓	6	2x40ml 1x250ml 2x125ml 1x500ml	X			X	X	X	X	X				X	

LABORATORY INSTRUCTIONS/COMMENTS

LEVEL IV QA/QC

RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)	RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)
COMPANY	TIME	COMPANY	COMPANY	TIME	COMPANY

F-2

SHIPPING COPY

MONTGOMERY LABORATORIES COOLER RECEIPT FORM

PROJECT: ENSGRCH Date Received: 11-4-98

Use other side of this form to note further details concerning check-in problems and to describe any action(s) regarding the resolution(s) of problems.

A. PRELIMINARY EXAMINATION: Date cooler opened: 11-4-98
by (print) Mike Chiang (sign) [signature]

1. Did cooler come with shipping slip (air bill, etc.)? Yes (No)
   If YES, attach & enter carrier and air bill # here: _____

2. Were custody seals on outside of cooler? (Yes) No
   If YES, how many & where: 2 outside cooler
   If Yes, enter the following: seal date: 11-4-98, seal name: BD

3. Were custody seals unbroken & intact at delivery? (Yes) No

4. Were custody papers sealed in bag & taped to lid? Yes (No)

5. Were custody papers filled out properly (ink, etc.) (Yes) No

6. Did you sign custody papers in appropriate place? (Yes) No

7. Was project identifiable from custody papers? (Yes) No

8. Have designated person(s) initial to acknowledge receipt: _____(date)_____

B. LOG-IN PHASE: Date samples were logged-in: _____ by:
(print)_____(sign)_____

9. Describe packing:

10. If required, was enough ice used? (Yes) No

11. Were all bottles sealed in separate plastic bags? (Yes) No

12. Did all bottles arrive unbroken/in good condition? (Yes) No

13. Were all bottle labels complete (ID,date,sign,pres)? (Yes) No

14. Did all bottle labels agree with custody papers? (Yes) No
    If NO, indicate descrepancies on back.

15. Were correct containers useed for the analytes? (Yes) No

16. Were correct preservatives used when required? (Yes) No

17. Was sufficient amount of sample sent for tests? (Yes) No

18. Bubbles absent in VOA vials? (Yes) No
    If NO, list by sample id on back.

19. Was Client Services informed of problems? Yes (No)

Report Summary of positive results, PR48931

			Result	MDL	UNITS
Analyzed	981104203	MW-984-098			
Analyzed	981104204	MW-984-097			
11/10/98	Dichloromethane		1.6	.500	UGL
Analyzed	981104205	MW-984-044			
11/10/98	Chloroform (Trichloromethane)		2.7	.500	UGL
11/10/98	Tetrachloroethylene (PCE)		0.8	.500	UGL
11/10/98	Trichloroethylene (TCE)		11	.500	UGL
11/10/98	Alkalinity		165	2.000	MGL
11/19/98	Anion Sum		4.45	.001	MEQL
11/19/98	Bicarbonate as HCO3,calculated		201	.001	MGL
11/20/98	Calcium, Total, ICAP		43.3	1.000	MGL
11/19/98	Carbonate as CO3, Calculated		1.31	.001	MGL
11/20/98	Cation Sum		4.41	.001	MEQL
11/06/98	Chloride		12.8	2.000	MGL
11/14/98	Iron, Total, ICAP/MS		720	******	UGL
11/05/98	Lab pH		8.0	.001	UNIT
11/20/98	Magnesium, Total, ICAP		13.0	.100	MGL
11/06/98	Nitrate-N by IC		2.24	.200	MGL
11/12/98	Perchlorate		12	4.000	UGL
11/20/98	Potassium, Total, ICAP		1.41	1.000	MGL
11/20/98	Sodium, Total, ICAP		26.2	1.000	MGL
11/06/98	Specific Conductance		470	4.000	UMHO
11/06/98	Sulfate		30.2	4.000	MGL
11/10/98	Total Dissolved Solid (TDS)		280	10.000	MGL
Analyzed	981104206	MW-984-043			
11/10/98	Chloroform (Trichloromethane)		1.9	.500	UGL
11/10/98	Tetrachloroethylene (PCE)		0.5	.500	UGL
11/10/98	Trichloroethylene (TCE)		6.2	.500	UGL
11/10/98	Alkalinity		168	2.000	MGL
11/19/98	Anion Sum		4.52	.001	MEQL
11/19/98	Bicarbonate as HCO3,calculated		205	.001	MGL
11/20/98	Calcium, Total, ICAP		44.5	1.000	MGL
11/19/98	Carbonate as CO3, Calculated		0.841	.001	MGL
11/20/98	Cation Sum		4.41	.001	MEQL
11/06/98	Chloride		12.6	2.000	MGL
11/14/98	Iron, Total, ICAP/MS		160	******	UGL
11/05/98	Lab pH		7.8	.001	UNIT
11/20/98	Magnesium, Total, ICAP		12.8	.100	MGL
11/06/98	Nitrate-N by IC		2.31	.200	MGL
11/12/98	Perchlorate		12	4.000	UGL
11/20/98	Potassium, Total, ICAP		1.32	1.000	MGL
11/20/98	Sodium, Total, ICAP		25.3	1.000	MGL
11/06/98	Specific Conductance		470	4.000	UMHO
11/06/98	Sulfate		30.7	4.000	MGL
11/10/98	Total Dissolved Solid (TDS)		270	10.000	MGL
Analyzed	981104207	MW-984-041			
11/10/98	Chloroform (Trichloromethane)		3.7	.500	UGL

11/10/98	Alkalinity	125	2.000	MGL
11/19/98	Anion Sum	3.24	.001	MEQL
11/19/98	Bicarbonate as HCO3,calculated	151	.001	MGL
11/20/98	Calcium, Total, ICAP	22.3	1.000	MGL
11/19/98	Carbonate as CO3, Calculated	3.91	.001	MGL
11/20/98	Cation Sum	3.23	.001	MEQL
11/06/98	Chloride	6.44	2.000	MGL
11/14/98	Iron, Total, ICAP/MS	140	******	UGL
11/05/98	Lab pH	8.6	.001	UNIT
11/20/98	Magnesium, Total, ICAP	17.0	.100	MGL
11/06/98	Nitrate-N by IC	0.69	.200	MGL
11/20/98	Potassium, Total, ICAP	2.49	1.000	MGL
11/20/98	Sodium, Total, ICAP	15.1	1.000	MGL
11/06/98	Specific Conductance	340	4.000	UMHO
11/06/98	Sulfate	24.3	4.000	MGL
11/10/98	Total Dissolved Solid (TDS)	200	10.000	MGL

Analyzed 981104208 MW-984-040

11/10/98	Alkalinity	125	2.000	MGL
11/19/98	Anion Sum	2.99	.001	MEQL
11/19/98	Bicarbonate as HCO3,calculated	152	.001	MGL
11/20/98	Calcium, Total, ICAP	31.2	1.000	MGL
11/19/98	Carbonate as CO3, Calculated	0.124	.001	MGL
11/20/98	Cation Sum	3.00	.001	MEQL
11/06/98	Chloride	4.08	1.000	MGL
11/05/98	Lab pH	7.1	.001	UNIT
11/20/98	Magnesium, Total, ICAP	10.5	.100	MGL
11/06/98	Nitrate-N by IC	0.26	.100	MGL
11/20/98	Potassium, Total, ICAP	1.75	1.000	MGL
11/20/98	Sodium, Total, ICAP	12.3	1.000	MGL
11/06/98	Specific Conductance	320	4.000	UMHO
11/06/98	Sulfate	17.2	2.000	MGL
11/10/98	Total Dissolved Solid (TDS)	180	10.000	MGL

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory Report

for

Foster Wheeler Environmental, Inc
611 Anton Boulevard

Suite 800

Costa Mesa , CA 92626

Attention: Mark Cutler
Fax: (714)444-5560

MONTGOMERY WATSON LABS.
SUBMITTED ON
NOV 25 1998
DEB* Debbie Frank

Report#: 48931
JPL

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory Report #48931

Foster Wheeler Environmental, Inc
Mark Cutler
611 Anton Boulevard
Suite 800
Costa Mesa , CA 92626

Samples Received
04-nov-1998 15:08:45

MW-984-098 (981104203) Sampled on 11/04/98

Regulated VOCs plus Lists 1&3

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	11/10/98	87154	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	11/10/98	87154	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	11/10/98	87154	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory
Report
#48931

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	11/10/98	87154	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	110	% Rec		
			(Surrogate)	4-Bromofluorobenzene	93	% Rec		
			(Surrogate)	Toluene-d8	103	% Rec		

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-984-097 (981104204) Sampled on 11/04/98								
11/12/98	11/24/98	87328	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	11/11/98	87108	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
11/12/98	11/14/98	87248	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	11/04/98	86759	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
11/12/98	11/14/98	87250	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
			Regulated VOCs plus Lists 1&3					
	11/10/98	87154	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	11/10/98	87154	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	11/10/98	87154	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory
Report
#48931

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	11/10/98	87154	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Dichloromethane	1.6	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	104	% Rec		
			(Surrogate)	4-Bromofluorobenzene	98	% Rec		

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory Report #48931

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
			(Surrogate)	Toluene-d8	96	% Rec		
MW-984-044 (981104205) Sampled on 11/04/98								
	11/10/98	87116	(ML/S2320B)	Alkalinity	165	mg/l	2.0	1
	11/19/98		(ML/SM1040)	Anion Sum	4.45	meq/l	0.0010	1
11/12/98	11/16/98	87328	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
11/20/98	11/20/98	87577	(EPA/ML 200.7)	Calcium, Total, ICAP	43.3	mg/l	1.0	1
	11/20/98		(ML/SM1040)	Cation Sum	4.41	meq/l	0.0010	1
	11/06/98	87351	(ML/EPA 300)	Chloride	12.8	mg/l	2.0	2
	11/12/98	87109	(MOD/EPA 300)	Perchlorate	12	ug/l	4.0	1
	11/19/98		(ML/S2320-B)	Carbonate as CO3, Calculated	1.31	mg/l	0.0010	1
11/12/98	11/14/98	87248	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	11/04/98	86759	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	11/06/98	86845	(ML/S2510B)	Specific Conductance	470	umho/cm	4.0	1
11/12/98	11/14/98	87249	(EPA/ML 200.8)	Iron, Total, ICAP/MS	720	ug/l	100	1
	11/19/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	201	mg/l	0.0010	1
11/20/98	11/20/98	87578	(ML/EPA 200.7)	Potassium, Total, ICAP	1.41	mg/l	1.0	1
11/20/98	11/20/98	87579	(ML/EPA 200.7)	Magnesium, Total, ICAP	13.0	mg/l	0.10	1
11/20/98	11/20/98	87580	(ML/EPA 200.7)	Sodium, Total, ICAP	26.2	mg/l	1.0	1
	11/06/98	87353	(ML/EPA 300.0)	Nitrate-N by IC	2.24	mg/l	0.20	2
11/12/98	11/14/98	87250	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	11/05/98	86883	(ML/SM 4500H)	Lab pH	8.0	Units	0.0010	1
	11/06/98	87354	(ML/EPA 300.0)	Sulfate	30.2	mg/l	4.0	2
	11/10/98	87107	(ML/S2540C)	Total Dissolved Solid (TDS)	280	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	11/10/98	87154	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory
Report
#48931

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	11/10/98	87154	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	11/10/98	87154	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	11/10/98	87154	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Chloroform (Trichloromethane)	2.7	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	11/10/98	87154	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	0.8	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Trichloroethylene (TCE)	11	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	97	% Rec		
			(Surrogate)	4-Bromofluorobenzene	110	% Rec		
			(Surrogate)	Toluene-d8	95	% Rec		

MW-984-043 (981104206) Sampled on 11/04/98

	11/10/98	87116	(ML/S2320B)	Alkalinity	168	mg/l	2.0	1
	11/19/98		(ML/SM1040)	Anion Sum	4.52	meq/l	0.0010	1
11/12/98	11/16/98	87328	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
11/20/98	11/20/98	87577	(EPA/ML 200.7)	Calcium, Total, ICAP	44.5	mg/l	1.0	1
	11/20/98		(ML/SM1040)	Cation Sum	4.41	meq/l	0.0010	1
	11/06/98	87351	(ML/EPA 300)	Chloride	12.6	mg/l	2.0	2
	11/12/98	87109	(MOD/EPA 300)	Perchlorate	12	ug/l	4.0	1
	11/19/98		(ML/S2320-B)	Carbonate as CO3, Calculated	0.841	mg/l	0.0010	1
11/12/98	11/14/98	87248	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	11/04/98	86759	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	11/06/98	86845	(ML/S2510B)	Specific Conductance	470	umho/cm	4.0	1
11/12/98	11/14/98	87249	(EPA/ML 200.8)	Iron, Total, ICAP/MS	160	ug/l	100	1
	11/19/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	205	mg/l	0.0010	1
11/20/98	11/20/98	87578	(ML/EPA 200.7)	Potassium, Total, ICAP	1.32	mg/l	1.0	1
11/20/98	11/20/98	87579	(ML/EPA 200.7)	Magnesium, Total, ICAP	12.8	mg/l	0.10	1
11/20/98	11/20/98	87580	(ML/EPA 200.7)	Sodium, Total, ICAP	25.3	mg/l	1.0	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory Report #48931

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	11/06/98	87353	(ML/EPA 300.0)	Nitrate-N by IC	2.31	mg/l	0.20	2
11/12/98	11/14/98	87250	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	11/05/98	86883	(ML/SM 4500H)	Lab pH	7.8	Units	0.0010	1
	11/06/98	87354	(ML/EPA 300.0)	Sulfate	30.7	mg/l	4.0	2
	11/10/98	87107	(ML/S2540C)	Total Dissolved Solid (TDS)	270	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	11/10/98	87154	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	11/10/98	87154	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	11/10/98	87154	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	11/10/98	87154	(ML/EPA 524.2)	Chloroform (Trichloromethane)	1.9	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	0.5	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Trichloroethylene (TCE)	6.2	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	106	% Rec		
			(Surrogate)	4-Bromofluorobenzene	97	% Rec		
			(Surrogate)	Toluene-d8	104	% Rec		

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-984-041 (981104207) Sampled on 11/04/98								
	11/10/98	87116	(ML/S2320B)	Alkalinity	125	mg/l	2.0	1
	11/19/98		(ML/SM1040)	Anion Sum	3.24	meq/l	0.0010	1
11/12/98	11/16/98	87328	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
11/20/98	11/20/98	87577	(EPA/ML 200.7)	Calcium, Total, ICAP	22.3	mg/l	1.0	1
	11/20/98		(ML/SM1040)	Cation Sum	3.23	meq/l	0.0010	1
	11/06/98	87351	(ML/EPA 300)	Chloride	6.44	mg/l	2.0	2
	11/12/98	87109	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	11/19/98		(ML/S2320-B)	Carbonate as CO3, Calculated	3.91	mg/l	0.0010	1
11/12/98	11/14/98	87248	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	11/04/98	86759	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	11/06/98	86847	(ML/S2510B)	Specific Conductance	340	umho/cm	4.0	1
11/12/98	11/14/98	87249	(EPA/ML 200.8)	Iron, Total, ICAP/MS	140	ug/l	100	1
	11/19/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	151	mg/l	0.0010	1
11/20/98	11/20/98	87578	(ML/EPA 200.7)	Potassium, Total, ICAP	2.49	mg/l	1.0	1
11/20/98	11/20/98	87579	(ML/EPA 200.7)	Magnesium, Total, ICAP	17.0	mg/l	0.10	1
11/20/98	11/20/98	87580	(ML/EPA 200.7)	Sodium, Total, ICAP	15.1	mg/l	1.0	1
	11/06/98	87353	(ML/EPA 300.0)	Nitrate-N by IC	0.69	mg/l	0.20	2
11/12/98	11/14/98	87250	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	11/05/98	86883	(ML/SM 4500H)	Lab pH	8.6	Units	0.0010	1
	11/06/98	87354	(ML/EPA 300.0)	Sulfate	24.3	mg/l	4.0	2
	11/10/98	87107	(ML/S2540C)	Total Dissolved Solid (TDS)	200	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	11/10/98	87154	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	11/10/98	87154	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	11/10/98	87154	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	11/10/98	87154	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Chloroform (Trichloromethane)	3.7	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	11/10/98	87154	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	107	% Rec		
			(Surrogate)	4-Bromofluorobenzene	103	% Rec		
			(Surrogate)	Toluene-d8	96	% Rec		

MW-984-040 (981104208) Sampled on 11/04/98

	11/10/98	87116	(ML/S2320B)	Alkalinity	125	mg/l	2.0	1
	11/19/98		(ML/SM1040)	Anion Sum	2.99	meq/l	0.0010	1
11/12/98	11/16/98	87328	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
11/20/98	11/20/98	87577	(EPA/ML 200.7)	Calcium, Total, ICAP	31.2	mg/l	1.0	1
	11/20/98		(ML/SM1040)	Cation Sum	3.00	meq/l	0.0010	1
	11/06/98	87351	(ML/EPA 300)	Chloride	4.08	mg/l	1.0	1
	11/12/98	87109	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	11/19/98		(ML/S2320-B)	Carbonate as CO3, Calculated	0.124	mg/l	0.0010	1
11/12/98	11/14/98	87248	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	11/04/98	86759	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	11/06/98	86847	(ML/S2510B)	Specific Conductance	320	umho/cm	4.0	1
11/12/98	11/14/98	87249	(EPA/ML 200.8)	Iron, Total, ICAP/MS	ND	ug/l	100	1
	11/19/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	152	mg/l	0.0010	1
11/20/98	11/20/98	87578	(ML/EPA 200.7)	Potassium, Total, ICAP	1.75	mg/l	1.0	1
11/20/98	11/20/98	87579	(ML/EPA 200.7)	Magnesium, Total, ICAP	10.5	mg/l	0.10	1
11/20/98	11/20/98	87580	(ML/EPA 200.7)	Sodium, Total, ICAP	12.3	mg/l	1.0	1
	11/06/98	87353	(ML/EPA 300.0)	Nitrate-N by IC	0.26	mg/l	0.10	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
11/12/98	11/14/98	87250	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	11/05/98	86883	(ML/SM 4500H)	Lab pH	7.1	Units	0.0010	1
	11/06/98	87354	(ML/EPA 300.0)	Sulfate	17.2	mg/l	2.0	1
	11/10/98	87107	(ML/S2540C)	Total Dissolved Solid (TDS)	180	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	11/10/98	87154	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	11/10/98	87154	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	11/10/98	87154	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	11/10/98	87154	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	108	% Rec		
			(Surrogate)	4-Bromofluorobenzene	91	% Rec		
			(Surrogate)	Toluene-d8	99	% Rec		

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Report
Comments
#48931

(981104204)
@EBASVOA
Sample was reanalyzed and dichloromethane is confirmed.

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory QC Report #48931

Foster Wheeler Environmental, Inc

QC Batch #86759 Hexavalent chromium (Cr VI)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1104208		(0.00 - 0.00)	
LCS1	Hexavalent chromium (Cr VI)	0.050	0.0500	100.0	(78.00 - 118.00)	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.0500	100.0	(78.00 - 118.00)	0.00
MBLK	Hexavalent chromium (Cr VI)	ND				
MS	Hexavalent chromium (Cr VI)	0.050	0.0500	100.0	(80.00 - 120.00)	
MSD	Hexavalent chromium (Cr VI)	0.050	0.0494	98.8	(80.00 - 120.00)	1.2

QC Batch #86845 Specific Conductance

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 98	1104206		(0.00 - 0.00)	

QC Batch #86847 Specific Conductance

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 98	1105018		(0.00 - 0.00)	

QC Batch #86883 Lab pH

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	lab # 98	1104208		(0.00 - 0.00)	

QC Batch #87107 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 98	1103159		(0.00 - 0.00)	
LCS1	Total Dissolved Solid (TDS)	175	166	94.9	(85.00 - 115.00)	
LCS2	Total Dissolved Solid (TDS)	700	658	94.0	(85.00 - 115.00)	
MBLK	Total Dissolved Solid (TDS)	ND				

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory
QC Report
#48931

Foster Wheeler Environmental, Inc
(continued)

QC Batch #87108 Perchlorate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1102362		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	21.3	106.5	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	21.0	105.0	(90.00 - 110.00)	1.4
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	21.9	109.5	(75.00 - 125.00)	
MSD	Perchlorate	20.0	24.1	120.5	(75.00 - 125.00)	9.6

QC Batch #87109 Perchlorate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1104205		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	21.2	106.0	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	21.4	107.0	(90.00 - 110.00)	0.94
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	19.3	96.5	(75.00 - 125.00)	
MSD	Perchlorate	20.0	21.4	107.0	(75.00 - 125.00)	10

QC Batch #87116 Alkalinity

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1104208		(0.00 - 0.00)	
LCS1	Alkalinity	96.2	98.1	102.0	(90.00 - 110.00)	
LCS2	Alkalinity	96.2	97.3	101.1	(90.00 - 110.00)	0.82
MBLK	Alkalinity	ND				
MS	Alkalinity	96.2	92.0	95.6	(80.00 - 120.00)	
MSD	Alkalinity	96.2	92.0	95.6	(80.00 - 120.00)	0.00

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory
QC Report
#48931

Foster Wheeler Environmental, Inc
(continued)

QC Batch #87154 Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	8	7.41	92.6	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	8	7.76	97.0	(70.00 - 130.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	8	7.35	91.9	(70.00 - 130.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	8	7.26	90.8	(70.00 - 130.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	8	7.74	96.8	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MS	1,1-Dichloroethylene	8	7.81	97.6	(70.00 - 130.00)	
MSD	1,1-Dichloroethylene	8	8.41	105.1	(70.00 - 130.00)	7.4
MBLK	1,1-Dichloropropene	ND				
MBLK	1,2,3-Trichlorobenzene	ND				
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	8	7.37	92.1	(70.00 - 130.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	8	7.68	96.0	(70.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	8	7.72	96.5	(70.00 - 130.00)	
MBLK	1,2-Dichloropropane	ND				
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	16	14.5	90.6	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
LCS1	p-Dichlorobenzene (1,4-DCB)	8	7.66	95.8	(70.00 - 130.00)	
MBLK	p-Dichlorobenzene (1,4-DCB)	ND				
MBLK	2,2-Dichloropropane	ND				
MBLK	2-Butanone (MEK)	ND				
MBLK	2-Chloroethylvinylether	ND				
MBLK	o-Chlorotoluene	ND				

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory
QC Report
#48931

Foster Wheeler Environmental, Inc
(continued)

MBLK	p-Chlorotoluene	ND				
MBLK	4-Methyl-2-Pentanone (MIBK)	ND				
MS	Spiked sample	Lab # 98	1109147		(0.00 - 0.00)	
LCS1	Benzene	8	7.74	96.8	(70.00 - 130.00)	
MBLK	Benzene	ND				
MS	Benzene	8	8.47	105.9	(70.00 - 130.00)	
MSD	Benzene	8	8.50	106.2	(70.00 - 130.00)	0.35
MBLK	Bromobenzene	ND				
MBLK	Bromomethane (Methyl Bromide)	ND				
LCS1	cis-1,2-Dichloroethylene	8	7.98	99.8	(70.00 - 130.00)	
MBLK	cis-1,2-Dichloroethylene	ND				
LCS1	Chlorobenzene	8	7.73	96.6	(70.00 - 130.00)	
MBLK	Chlorobenzene	ND				
MS	Chlorobenzene	8	8.56	107.0	(70.00 - 130.00)	
MSD	Chlorobenzene	8	8.15	101.9	(70.00 - 130.00)	4.9
LCS1	Carbon Tetrachloride	8	7.18	89.8	(70.00 - 130.00)	
MBLK	Carbon Tetrachloride	ND				
MBLK	cis-1,3-Dichloropropene	ND				
LCS1	Bromoform	8	6.82	85.2	(70.00 - 130.00)	
MBLK	Bromoform	ND				
LCS1	Chloroform (Trichloromethane)	8	7.33	91.6	(70.00 - 130.00)	
MBLK	Chloroform (Trichloromethane)	ND				
MBLK	Bromochloromethane	ND				
MBLK	Chloroethane	ND				
MBLK	Chloromethane(Methyl Chloride)	ND				
LCS1	Chlorodibromomethane	8	7.19	89.9	(70.00 - 130.00)	
MBLK	Chlorodibromomethane	ND				
MBLK	Dibromomethane	ND				
LCS1	Bromodichloromethane	8	7.72	96.5	(70.00 - 130.00)	
MBLK	Bromodichloromethane	ND				
LCS1	Dichloromethane	8	7.94	99.2	(70.00 - 130.00)	
MBLK	Dichloromethane	ND				
LCS1	Ethyl benzene	8	7.39	92.4	(70.00 - 130.00)	
MBLK	Ethyl benzene	ND				
MBLK	Dichlorodifluoromethane	ND				
LCS1	Fluorotrichloromethane-Freon11	4	3.81	95.2	(70.00 - 130.00)	
MBLK	Fluorotrichloromethane-Freon11	ND				

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

MBLK	Hexachlorobutadiene	ND				
MBLK	Isopropylbenzene	ND				
MBLK	m-Dichlorobenzene (1,3-DCB)	ND				
LCS1	m,p-Xylenes	16	15.1	94.4	(70.00 - 130.00)	
MBLK	m,p-Xylenes	ND				
MBLK	Naphthalene	ND				
MBLK	n-Butylbenzene	ND				
MBLK	n-Propylbenzene	ND				
LCS1	o-Xylene	8	7.77	97.1	(70.00 - 130.00)	
MBLK	o-Xylene	ND				
LCS1	o-Dichlorobenzene (1,2-DCB)	8	7.24	90.5	(70.00 - 130.00)	
MBLK	o-Dichlorobenzene (1,2-DCB)	ND				
LCS1	Tetrachloroethylene (PCE)	8	8.21	102.6	(70.00 - 130.00)	
MBLK	Tetrachloroethylene (PCE)	ND				
MBLK	p-Isopropyltoluene	ND				
MBLK	sec-Butylbenzene	ND				
LCS1	Styrene	8	7.56	94.5	(70.00 - 130.00)	
MBLK	Styrene	ND				
LCS1	1,2-dichloroethane-d4	100	102	102.0	(80.00 - 120.00)	
MBLK	1,2-dichloroethane-d4	100	93.1	93.1		
MS	1,2-dichloroethane-d4	100	106	106.0	(80.00 - 120.00)	
MSD	1,2-dichloroethane-d4	100	103	103.0	(80.00 - 120.00)	2.9
LCS1	Toluene-d8	100	100	100.0	(80.00 - 120.00)	
MBLK	Toluene-d8	100	95.4	95.4		
MS	Toluene-d8	100	102	102.0	(80.00 - 120.00)	
MSD	Toluene-d8	100	98.6	98.6	(80.00 - 120.00)	3.4
LCS1	4-Bromofluorobenzene	100	103	103.0	(80.00 - 120.00)	
MBLK	4-Bromofluorobenzene	100	108	108.0		
MS	4-Bromofluorobenzene	100	97.0	97.0	(80.00 - 120.00)	
MSD	4-Bromofluorobenzene	100	101	101.0	(80.00 - 120.00)	4.0
LCS1	trans-1,2-Dichloroethylene	8	8.27	103.4	(70.00 - 130.00)	
MBLK	trans-1,2-Dichloroethylene	ND				
MBLK	tert-Butylbenzene	ND				
LCS1	Trichloroethylene (TCE)	8	7.38	92.2	(70.00 - 130.00)	
MBLK	Trichloroethylene (TCE)	ND				
MS	Trichloroethylene (TCE)	8	8.15	101.9	(70.00 - 130.00)	
MSD	Trichloroethylene (TCE)	8	8.41	105.1	(70.00 - 130.00)	3.1

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

LCS1	Trichlorotrifluoroethane(Freon	4	3.32	83.0	(70.00 - 130.00)	
MBLK	Trichlorotrifluoroethane(Freon	ND				
MBLK	trans-1,3-Dichloropropene	ND				
LCS1	Toluene	8	7.76	97.0	(70.00 - 130.00)	
MBLK	Toluene	ND				
MS	Toluene	8	8.27	103.4	(70.00 - 130.00)	
MSD	Toluene	8	8.19	102.4	(70.00 - 130.00)	0.97
LCS1	Vinyl chloride (VC)	4	4.19	104.8	(70.00 - 130.00)	
MBLK	Vinyl chloride (VC)	ND				

QC Batch #87248 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab# 98	1103158		(0.00 - 0.00)	
LCS1	Chromium, Total, ICAP/MS	100	98	98.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	102	102.0	(85.00 - 115.00)	4.0
MBLK	Chromium, Total, ICAP/MS	ND				
MS	Chromium, Total, ICAP/MS	100	94	94.0	(70.00 - 130.00)	
MSD	Chromium, Total, ICAP/MS	100	99	99.0	(70.00 - 130.00)	5.2

QC Batch #87249 Iron, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1103158		(0.00 - 0.00)	
LCS1	Iron, Total, ICAP/MS	500	489	97.8	(85.00 - 115.00)	
LCS2	Iron, Total, ICAP/MS	500	511	102.2	(85.00 - 115.00)	4.4
MBLK	Iron, Total, ICAP/MS	ND				
MS	Iron, Total, ICAP/MS	500	487	97.4	(70.00 - 130.00)	
MSD	Iron, Total, ICAP/MS	500	500	100.0	(70.00 - 130.00)	2.6

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

QC Batch #87250 Lead, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab #98	1103158		(0.00 - 0.00)	
LCS1	Lead, Total, ICAP/MS	20.0	20.2	101.0	(85.00 - 115.00)	
LCS2	Lead, Total, ICAP/MS	20.0	21.4	107.0	(85.00 - 115.00)	5.8
MBLK	Lead, Total, ICAP/MS	ND				
MS	Lead, Total, ICAP/MS	20.0	21.6	108.0	(70.00 - 130.00)	
MSD	Lead, Total, ICAP/MS	20.0	21.7	108.5	(70.00 - 130.00)	0.46

QC Batch #87328 Arsenic, Total, GF

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab #98	1103158		(0.00 - 0.00)	
LCS1	Arsenic, Total, GF	0.020	0.0170	85.0	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.0188	94.0	(85.00 - 115.00)	10
MBLK	Arsenic, Total, GF	ND				
MS	Arsenic, Total, GF	0.020	0.0205	102.5	(70.00 - 130.00)	
MSD	Arsenic, Total, GF	0.020	0.0206	103.0	(70.00 - 130.00)	0.49

QC Batch #87351 Chloride

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1104208		(0.00 - 0.00)	
LCS1	Chloride	25	25.5	102.0	(90.00 - 110.00)	
LCS2	Chloride	25	25.8	103.2	(90.00 - 110.00)	1.2
MBLK	Chloride	ND				
MS	Chloride	25	25.9	103.6	(80.00 - 120.00)	
MSD	Chloride	25	26.0	104.0	(80.00 - 120.00)	0.39

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

QC Batch #87353 Nitrate-N by IC

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1104208		(0.00 - 0.00)	
LCS1	Nitrate-N by IC	2.5	2.54	101.6	(90.00 - 110.00)	
LCS2	Nitrate-N by IC	2.5	2.55	102.0	(90.00 - 110.00)	0.39
MBLK	Nitrate-N by IC	ND				
MS	Nitrate-N by IC	2.5	2.53	101.2	(80.00 - 120.00)	
MSD	Nitrate-N by IC	2.5	2.54	101.6	(80.00 - 120.00)	0.39

QC Batch #87354 Sulfate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1104208		(0.00 - 0.00)	
LCS1	Sulfate	50	50.7	101.4	(90.00 - 110.00)	
LCS2	Sulfate	50	51.2	102.4	(90.00 - 110.00)	0.98
MBLK	Sulfate	ND				
MS	Sulfate	50	52.3	104.6	(80.00 - 120.00)	
MSD	Sulfate	50	52.7	105.4	(80.00 - 120.00)	0.76

QC Batch #87577 Calcium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1102360		(0.00 - 0.00)	
LCS1	Calcium, Total, ICAP	50	49.2	98.4	(85.00 - 115.00)	
LCS2	Calcium, Total, ICAP	50	49.5	99.0	(85.00 - 115.00)	0.61
MBLK	Calcium, Total, ICAP	ND				
MS	Calcium, Total, ICAP	50	49.4	98.8	(70.00 - 130.00)	
MSD	Calcium, Total, ICAP	50	49.6	99.2	(70.00 - 130.00)	0.40

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

QC Batch #87578 Potassium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1102360		(0.00 - 0.00)	
LCS1	Potassium, Total, ICAP	20	19.4	97.0	(80.00 - 110.00)	
LCS2	Potassium, Total, ICAP	20	19.5	97.5	(80.00 - 110.00)	0.51
MBLK	Potassium, Total, ICAP	ND				
MS	Potassium, Total, ICAP	20	20.0	100.0	(80.00 - 120.00)	
MSD	Potassium, Total, ICAP	20	20.0	100.0	(80.00 - 120.00)	0.00

QC Batch #87579 Magnesium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1102360		(0.00 - 0.00)	
LCS1	Magnesium, Total, ICAP	20	20.2	101.0	(85.00 - 115.00)	
LCS2	Magnesium, Total, ICAP	20	20.3	101.5	(85.00 - 115.00)	0.49
MBLK	Magnesium, Total, ICAP	ND				
MS	Magnesium, Total, ICAP	20	20.0	100.0	(70.00 - 130.00)	
MSD	Magnesium, Total, ICAP	20	20.1	100.5	(70.00 - 130.00)	0.50

QC Batch #87580 Sodium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1102360		(0.00 - 0.00)	
LCS1	Sodium, Total, ICAP	50	50.2	100.4	(85.00 - 115.00)	
LCS2	Sodium, Total, ICAP	50	50.5	101.0	(85.00 - 115.00)	0.60
MBLK	Sodium, Total, ICAP	ND				
MS	Sodium, Total, ICAP	50	49.1	98.2	(70.00 - 130.00)	
MSD	Sodium, Total, ICAP	50	50.2	100.4	(70.00 - 130.00)	2.2

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES

December 4, 1998

Foster Wheeler Environmental
611 Anton Blvd Suite 800
Costa Mesa, CA.92626

Attention: Mark Cutler

Re: Report # 48988 (MW-984-026, -027, -028, -100, -99)

Dear Mark,

Enclosed please find data deliverables for the recent JPL project. A detailed quality control (QC) summary follows:

Non-conformance (LCS, MS/MSD, Surrogates, and Holding Times):
None
Samples requiring dilution (with increased MRL's):
Diluted for Anions: MW-984-028, -026
Method blanks with compounds detected:
None
Other Comments:
Carbon Tetrachloride was detected in sample ID: MW-984-02, 027, -028
Chloroform was detected in sample ID: MW-984-026, -027, -028
Perchlorate was detected in sample ID: MW-984-026, -027, -028
TICS:
None
Method Variance:
Sample Coolers did not have Chain of Custody seals on the outside of the Coolers. The Coolers were in the possession of the sampler until transfer to Laboratory Personnel on the same day of sampling. Tom Blaney was notified on 11/9/98.

Sincerely,

Debbie Frank
Project Manager

cc: Judy Novelly (JPL)

a Division of Montgomery Watson Americas, Inc.

555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400
Fax: 626 568 6324

4820 South Mill Avenue
Suite 202
Tempe, Arizona 85282
Tel: 602 755 8201
Fax: 602 755 8203

Quality Environmental Analysis

Montgomery Watson Laboratories
, Los Angeles, CA 90051-3508
PHONE: 626-568-6400/FAX: 626-568-6324

ACKNOWLEDGMENT OF SAMPLES RECEIVED

Foster Wheeler Environmental, Inc
611 Anton Boulevard
Suite 800
Costa Mesa, CA 92626
Attn: Mark Cutler

Customer Code: ENSERCH
PO#: Sub PO#007618-0004
Group#: 48988
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

The following samples were received from you on 11/05/98. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using Montgomery Watson Laboratories.

Sample#	Sample Id	Tests Scheduled	Matrix	Sample Date
981105351	MW-984-026		Water	11/05/98
		@EBASVOA CR-VI PB-EBAS CR-EBAS AS-EBAS		
		TDS CATION1 ANION1 PH EC HCO3		
		CO3 ALK NO3 SO4 CL FE-MS		
		K NA MG CA CLO4		
981105352	MW-984-027		Water	11/05/98
		@EBASVOA CR-EBAS AS-EBAS PB-EBAS CR-VI		
		CLO4		
981105353	MW-984-028		Water	11/05/98
		@EBASVOA CR-VI PB-EBAS CR-EBAS AS-EBAS		
		TDS CATION1 ANION1 PH EC HCO3		
		CO3 ALK NO3 SO4 CL FE-MS		
		K NA MG CA CLO4		
981105354	MW-984-100		Water	11/05/98
		@EBASVOA		
981105355	MW-984-99		Water	11/05/98
		@EBASVOA CR-EBAS AS-EBAS PB-EBAS CR-VI		
		CLO4		

Test Acronym Description

Test Acronym	Description
@EBASVOA	Regulated VOCs plus Lists 1&3
ALK	Alkalinity
ANION1	Anion Sum
AS-EBAS	Arsenic, Total, GF
CA	Calcium, Total, ICAP
CATION1	Cation Sum
CL	Chloride
CLO4	Perchlorate
CO3	Carbonate as CO3, Calculated
CR-EBAS	Chromium, Total, ICAP/MS

Foster Wheeler Environmental, Inc
611 Anton Boulevard
Suite 800
Costa Mesa, CA 92626
Attn: Mark Cutler

Customer Code: ENSERCH
PO#: Sub PO#007618-0004
Group#: 48988
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

Test Acronym Description

Test Acronym	Description
CR-VI	Hexavalent chromium (Cr VI)
EC	Specific Conductance
FE-MS	Iron, Total, ICAP/MS
HCO3	Bicarbonate as HCO3,calculated
K	Potassium, Total, ICAP
MG	Magnesium, Total, ICAP
NA	Sodium, Total, ICAP
NO3	Nitrate-N by IC
PB-EBAS	Lead, Total, ICAP/MS
PH	Lab pH
SO4	Sulfate
TDS	Total Dissolved Solid (TDS)

NUMBER 2103

489 B8

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PROJECT: JPL

OFS NO.: 1572.0260

PROJECT ADDRESS: 4800 Oak Grove Dr Pasadena, CA

SAMPLER (Name): B. Dumesnil

SAMPLER (Signature): Bette Dumesnil

LABORATORY: Montgomery Watson Labs

REPORTS TO BE SENT TO: Mark Cutler

HAZARD IDENTIFICATION: Non Hazard ☒ Reactive ☐ Flammable ☐ Toxic ☐ Skin Irritant ☐ Infectious ☐

TIME REQUIRED: NORMAL ☒ ___ DAYS; RUSH ☐ ___ DAYS

ANALYSES REQUIRED

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL: WATER	SOIL	OTHER (Describe)	VOCs (524.2)	Total Cr, As, Pb	[illegible]	[illegible]	[illegible]	[illegible]				
MW-981-026	1530	11/5/98	6	2x40ml, 1x250 [illegible]	X			X	X	X	X	X					
MW-981-027	1545	11/5/98	5	2x40ml, 1x250ml, 1x125ml	X			X	X		X	X					
MW-981-028	1600 PM ~~1545~~	11/5/98	6	2x40ml, 1x250ml, 1x125ml, 2x[illegible]	X			X	X	X	X	X	X				
MW-981-100	1445	11/5/98	2	2x40ml	X			X									
MW-981-99	1500	11/5/98	5	2x40ml, 1x250ml, [illegible]	X			X	X		X	X					

LABORATORY INSTRUCTIONS/COMMENTS

Level IV QA/QC

RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)	RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)
[illegible]	11/5/98	[illegible]			
COMPANY: [illegible]	TIME: [illegible]	COMPANY: [illegible]	COMPANY	TIME	COMPANY

F-2

SHIPPING COPY

MONTGOMERY LABORATORIES COOLER RECEIPT FORM

PROJECT: Ansorell Date Received: 11/5/98

Use other side of this form to note further details concerning check-in problems and to describe any action(s) regarding the resolution(s) of problems.

A. PRELIMINARY EXAMINATION: Date cooler opened: 11/5/98

by (print) Vicky Nepam (sign) [illegible]

1. Did cooler come with shipping slip (air bill, etc.)? Yes (No)
   If YES, attach & enter carrier and air bill # here: _____

2. Were custody seals on outside of cooler? Yes (No)
   If YES, how many & where: Samples were with the Sampler until
   If Yes, enter the following: seal date: _____, seal name: _____
   arriving to Montlabs Login same day as sampled. 11/5/98 DEO

3. Were custody seals unbroken & intact at delivery? Yes No—NA

4. Were custody papers sealed in bag & taped to lid? Yes (No)

5. Were custody papers filled out properly (ink, etc.) (Yes) No

6. Did you sign custody papers in appropriate place? (Yes) No

7. Was project identifiable from custody papers? (Yes) No

8. Have designated person(s) initial to acknowledge receipt: VN (date) 11/5/98

B. LOG-IN PHASE: Date samples were logged-in: _____ by:
   (print) _____ (sign) _____

9. Describe packing:

10. If required, was enough ice used? (Yes) No

11. Were all bottles sealed in separate plastic bags? Yes (No)

12. Did all bottles arrive unbroken/in good condition? (Yes) No

13. Were all bottle labels complete (ID,date,sign,pres)? (Yes) No

14. Did all bottle labels agree with custody papers? (Yes) No
    If NO, indicate descrepancies on back.

15. Were correct containers useed for the analytes? (Yes) No

16. Were correct preservatives used when required? (Yes) No

17. Was sufficient amount of sample sent for tests? (Yes) No

18. Bubbles absent in VOA vials? (Yes) No
    If NO, list by sample id on back.

19. Was Client Services informed of problems? Yes No

Report Summary of positive results, PR48988

		Result	MDL	UNITS
Analyzed	981105351 MW-984-026			
11/10/98	Carbon Tetrachloride	1.3	.500	UGL
11/10/98	Chloroform (Trichloromethane)	1.0	.500	UGL
11/10/98	Alkalinity	186	2.000	MGL
11/19/98	Anion Sum	5.12	.001	MEQL
11/19/98	Bicarbonate as HCO3,calculated	227	.001	MGL
11/20/98	Calcium, Total, ICAP	51.5	1.000	MGL
11/19/98	Carbonate as CO3, Calculated	0.587	.001	MGL
11/20/98	Cation Sum	5.04	.001	MEQL
11/06/98	Chloride	15.9	2.000	MGL
11/14/98	Iron, Total, ICAP/MS	230	******	UGL
11/10/98	Lab pH	7.6	.001	UNIT
11/20/98	Magnesium, Total, ICAP	16.9	.100	MGL
11/06/98	Nitrate-N by IC	1.94	.200	MGL
11/18/98	Perchlorate	4.2	4.000	UGL
11/20/98	Potassium, Total, ICAP	2.73	1.000	MGL
11/20/98	Sodium, Total, ICAP	23.1	1.000	MGL
11/06/98	Specific Conductance	535	4.000	UMHO
11/06/98	Sulfate	39.2	4.000	MGL
11/10/98	Total Dissolved Solid (TDS)	310	10.000	MGL
Analyzed	981105352 MW-984-027			
11/10/98	Carbon Tetrachloride	1.2	.500	UGL
11/10/98	Chloroform (Trichloromethane)	0.9	.500	UGL
11/18/98	Perchlorate	4.6	4.000	UGL
Analyzed	981105353 MW-984-028			
11/10/98	Carbon Tetrachloride	27	.500	UGL
11/10/98	Chloroform (Trichloromethane)	2.2	.500	UGL
11/10/98	Alkalinity	184	2.000	MGL
11/19/98	Anion Sum	5.09	.001	MEQL
11/19/98	Bicarbonate as HCO3,calculated	224	.001	MGL
11/20/98	Calcium, Total, ICAP	55.5	1.000	MGL
11/19/98	Carbonate as CO3, Calculated	0.918	.001	MGL
11/20/98	Cation Sum	5.15	.001	MEQL
11/06/98	Chloride	18.4	2.000	MGL
11/14/98	Iron, Total, ICAP/MS	330	******	UGL
11/10/98	Lab pH	7.8	.001	UNIT
11/20/98	Magnesium, Total, ICAP	15.5	.100	MGL
11/06/98	Nitrate-N by IC	1.62	.200	MGL
11/18/98	Perchlorate	6.9	4.000	UGL
11/20/98	Potassium, Total, ICAP	2.55	1.000	MGL
11/20/98	Sodium, Total, ICAP	23.7	1.000	MGL
11/06/98	Specific Conductance	535	4.000	UMHO
11/06/98	Sulfate	37.2	4.000	MGL
11/10/98	Total Dissolved Solid (TDS)	310	10.000	MGL
Analyzed	981105354 MW-984-100			
Analyzed	981105355 MW-984-99			

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory Report

for

Foster Wheeler Environmental, Inc
611 Anton Boulevard

Suite 800

Costa Mesa , CA 92626

Attention: Mark Cutler
Fax: (714)444-5560

MONTGOMERY WATSON LABS.
SUBMITTED ON
NOV 24 1998
DEB* Debbie Frank

Report#: 48988
JPL

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory Report #48988

Foster Wheeler Environmental, Inc
Mark Cutler
611 Anton Boulevard
Suite 800
Costa Mesa , CA 92626

Samples Received
05-nov-1998 17:22:02

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-984-026 (981105351) Sampled on 11/05/98								
	11/10/98	87116	(ML/S2320B)	Alkalinity	186	mg/l	2.0	1
	11/19/98		(ML/SM1040)	Anion Sum	5.12	meq/l	0.0010	1
11/14/98	11/19/98	87626	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
11/20/98	11/20/98	87577	(EPA/ML 200.7)	Calcium, Total, ICAP	51.5	mg/l	1.0	1
	11/20/98		(ML/SM1040)	Cation Sum	5.04	meq/l	0.0010	1
	11/06/98	87351	(ML/EPA 300)	Chloride	15.9	mg/l	2.0	2
	11/18/98	87454	(MOD/EPA 300)	Perchlorate	4.2	ug/l	4.0	1
	11/19/98		(ML/S2320-B)	Carbonate as CO3, Calculated	0.587	mg/l	0.0010	1
11/14/98	11/14/98	87358	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	11/05/98	86824	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	11/06/98	86848	(ML/S2510B)	Specific Conductance	535	umho/cm	4.0	1
11/14/98	11/14/98	87359	(EPA/ML 200.8)	Iron, Total, ICAP/MS	230	ug/l	100	1
	11/19/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	227	mg/l	0.0010	1
11/20/98	11/20/98	87578	(ML/EPA 200.7)	Potassium, Total, ICAP	2.73	mg/l	1.0	1
11/20/98	11/20/98	87579	(ML/EPA 200.7)	Magnesium, Total, ICAP	16.9	mg/l	0.10	1
11/20/98	11/20/98	87580	(ML/EPA 200.7)	Sodium, Total, ICAP	23.1	mg/l	1.0	1
	11/06/98	87353	(ML/EPA 300.0)	Nitrate-N by IC	1.94	mg/l	0.20	2
11/14/98	11/14/98	87360	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	11/10/98	87045	(ML/SM 4500H)	Lab pH	7.6	Units	0.0010	1
	11/06/98	87354	(ML/EPA 300.0)	Sulfate	39.2	mg/l	4.0	2
	11/10/98	87107	(ML/S2540C)	Total Dissolved Solid (TDS)	310	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	11/10/98	87154	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory Report #48988

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	11/10/98	87154	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	11/10/98	87154	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	11/10/98	87154	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Carbon Tetrachloride	1.3	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Chloroform (Trichloromethane)	1.0	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	11/10/98	87154	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	106	% Rec		
			(Surrogate)	4-Bromofluorobenzene	89	% Rec		
			(Surrogate)	Toluene-d8	94	% Rec		

MW-984-027 (981105352) Sampled on 11/05/98

11/14/98	11/19/98	87626	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	11/18/98	87454	(MOD/EPA 300)	Perchlorate	4.6	ug/l	4.0	1
11/14/98	11/14/98	87358	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	11/05/98	86824	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
11/14/98	11/14/98	87360	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1

Regulated VOCs plus Lists 1&3

	11/10/98	87154	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	11/10/98	87154	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	11/10/98	87154	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	11/10/98	87154	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Carbon Tetrachloride	1.2	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Chloroform (Trichloromethane)	0.9	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	11/10/98	87154	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	100	% Rec		
			(Surrogate)	4-Bromofluorobenzene	95	% Rec		
			(Surrogate)	Toluene-d8	99	% Rec		

MW-984-028 (981105353) Sampled on 11/05/98

	11/10/98	87116	(ML/S2320B)	Alkalinity	184	mg/l	2.0	1
	11/19/98		(ML/SM1040)	Anion Sum	5.09	meq/l	0.0010	1
11/14/98	11/19/98	87626	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
11/20/98	11/20/98	87577	(EPA/ML 200.7)	Calcium, Total, ICAP	55.5	mg/l	1.0	1
	11/20/98		(ML/SM1040)	Cation Sum	5.15	meq/l	0.0010	1
	11/06/98	87351	(ML/EPA 300)	Chloride	18.4	mg/l	2.0	2
	11/18/98	87454	(MOD/EPA 300)	Perchlorate	6.9	ug/l	4.0	1
	11/19/98		(ML/S2320-B)	Carbonate as CO3, Calculated	0.918	mg/l	0.0010	1
11/14/98	11/14/98	87358	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	11/05/98	86824	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	11/06/98	86848	(ML/S2510B)	Specific Conductance	535	umho/cm	4.0	1
11/14/98	11/14/98	87359	(EPA/ML 200.8)	Iron, Total, ICAP/MS	330	ug/l	100	1
	11/19/98		(ML/S2330B)	Bicarbonate as HCO3,calculated	224	mg/l	0.0010	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
11/20/98	11/20/98	87578	(ML/EPA 200.7)	Potassium, Total, ICAP	2.55	mg/l	1.0	1
11/20/98	11/20/98	87579	(ML/EPA 200.7)	Magnesium, Total, ICAP	15.5	mg/l	0.10	1
11/20/98	11/20/98	87580	(ML/EPA 200.7)	Sodium, Total, ICAP	23.7	mg/l	1.0	1
	11/06/98	87353	(ML/EPA 300.0)	Nitrate-N by IC	1.62	mg/l	0.20	2
11/14/98	11/14/98	87360	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	11/10/98	87045	(ML/SM 4500H)	Lab pH	7.8	Units	0.0010	1
	11/06/98	87354	(ML/EPA 300.0)	Sulfate	37.2	mg/l	4.0	2
	11/10/98	87107	(ML/S2540C)	Total Dissolved Solid (TDS)	310	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	11/10/98	87154	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	11/10/98	87154	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	11/10/98	87154	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory Report #48988

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	11/10/98	87154	(ML/EPA 524.2)	Carbon Tetrachloride	27	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Chloroform (Trichloromethane)	2.2	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	97	% Rec		

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
			(Surrogate)	4-Bromofluorobenzene	102	% Rec		
			(Surrogate)	Toluene-d8	99	% Rec		

MW-984-100 (981105354) Sampled on 11/05/98

Regulated VOCs plus Lists 1&3

	11/10/98	87154	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	11/10/98	87154	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	11/10/98	87154	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory
Report
#48988

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	11/10/98	87154	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	96	% Rec		
			(Surrogate)	4-Bromofluorobenzene	105	% Rec		
			(Surrogate)	Toluene-d8	97	% Rec		

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-984-99 (981105355) Sampled on 11/05/98								
11/14/98	11/19/98	87626	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	11/18/98	87454	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
11/14/98	11/14/98	87358	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	11/05/98	86824	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
11/14/98	11/14/98	87360	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
			Regulated VOCs plus Lists 1&3					
	11/10/98	87154	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	11/10/98	87154	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	11/10/98	87154	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	11/10/98	87154	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	11/10/98	87154	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	107	% Rec		
			(Surrogate)	4-Bromofluorobenzene	100	% Rec		

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
			(Surrogate	) Toluene-d8	96	% Rec		

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory QC Report #48988

Foster Wheeler Environmental, Inc

QC Batch #86824 Hexavalent chromium (Cr VI)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1105353		(0.00 - 0.00)	
LCS1	Hexavalent chromium (Cr VI)	0.050	0.0504	100.8	(78.00 - 118.00)	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.0504	100.8	(78.00 - 118.00)	0.00
MBLK	Hexavalent chromium (Cr VI)	ND				
MS	Hexavalent chromium (Cr VI)	0.050	0.0504	100.8	(80.00 - 120.00)	
MSD	Hexavalent chromium (Cr VI)	0.050	0.0504	100.8	(80.00 - 120.00)	0.00

QC Batch #86848 Specific Conductance

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 98	1105353		(0.00 - 0.00)	

QC Batch #87045 Lab pH

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	lab # 98	1109149		(0.00 - 0.00)	

QC Batch #87107 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 98	1103159		(0.00 - 0.00)	
LCS1	Total Dissolved Solid (TDS)	175	166	94.9	(85.00 - 115.00)	
LCS2	Total Dissolved Solid (TDS)	700	658	94.0	(85.00 - 115.00)	
MBLK	Total Dissolved Solid (TDS)	ND				

QC Batch #87116 Alkalinity

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1104208		(0.00 - 0.00)	
LCS1	Alkalinity	96.2	98.1	102.0	(90.00 - 110.00)	
LCS2	Alkalinity	96.2	97.3	101.1	(90.00 - 110.00)	0.82
MBLK	Alkalinity	ND				

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

MS	Alkalinity	96.2	92.0	95.6	(80.00 - 120.00)	
MSD	Alkalinity	96.2	92.0	95.6	(80.00 - 120.00)	0.00

QC Batch #87154 Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	8	7.41	92.6	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	8	7.76	97.0	(70.00 - 130.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	8	7.35	91.9	(70.00 - 130.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	8	7.26	90.8	(70.00 - 130.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	8	7.74	96.8	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MS	1,1-Dichloroethylene	8	7.81	97.6	(70.00 - 130.00)	
MSD	1,1-Dichloroethylene	8	8.41	105.1	(70.00 - 130.00)	7.4
MBLK	1,1-Dichloropropene	ND				
MBLK	1,2,3-Trichlorobenzene	ND				
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	8	7.37	92.1	(70.00 - 130.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	8	7.68	96.0	(70.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	8	7.72	96.5	(70.00 - 130.00)	
MBLK	1,2-Dichloropropane	ND				
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	16	14.5	90.6	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
LCS1	p-Dichlorobenzene (1,4-DCB)	8	7.66	95.8	(70.00 - 130.00)	
MBLK	p-Dichlorobenzene (1,4-DCB)	ND				
MBLK	2,2-Dichloropropane	ND				
MBLK	2-Butanone (MEK)	ND				

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory
QC Report
#48988

Foster Wheeler Environmental, Inc
(continued)

MBLK	2-Chloroethylvinylether	ND				
MBLK	o-Chlorotoluene	ND				
MBLK	p-Chlorotoluene	ND				
MBLK	4-Methyl-2-Pentanone (MIBK)	ND				
MS	Spiked sample	Lab # 98	1109147		(0.00 - 0.00)	
LCS1	Benzene	8	7.74	96.8	(70.00 - 130.00)	
MBLK	Benzene	ND				
MS	Benzene	8	8.47	105.9	(70.00 - 130.00)	
MSD	Benzene	8	8.50	106.2	(70.00 - 130.00)	0.35
MBLK	Bromobenzene	ND				
MBLK	Bromomethane (Methyl Bromide)	ND				
LCS1	cis-1,2-Dichloroethylene	8	7.98	99.8	(70.00 - 130.00)	
MBLK	cis-1,2-Dichloroethylene	ND				
LCS1	Chlorobenzene	8	7.73	96.6	(70.00 - 130.00)	
MBLK	Chlorobenzene	ND				
MS	Chlorobenzene	8	8.56	107.0	(70.00 - 130.00)	
MSD	Chlorobenzene	8	8.15	101.9	(70.00 - 130.00)	4.9
LCS1	Carbon Tetrachloride	8	7.18	89.8	(70.00 - 130.00)	
MBLK	Carbon Tetrachloride	ND				
MBLK	cis-1,3-Dichloropropene	ND				
LCS1	Bromoform	8	6.82	85.2	(70.00 - 130.00)	
MBLK	Bromoform	ND				
LCS1	Chloroform (Trichloromethane)	8	7.33	91.6	(70.00 - 130.00)	
MBLK	Chloroform (Trichloromethane)	ND				
MBLK	Bromochloromethane	ND				
MBLK	Chloroethane	ND				
MBLK	Chloromethane(Methyl Chloride)	ND				
LCS1	Chlorodibromomethane	8	7.19	89.9	(70.00 - 130.00)	
MBLK	Chlorodibromomethane	ND				
MBLK	Dibromomethane	ND				
LCS1	Bromodichloromethane	8	7.72	96.5	(70.00 - 130.00)	
MBLK	Bromodichloromethane	ND				
LCS1	Dichloromethane	8	7.94	99.2	(70.00 - 130.00)	
MBLK	Dichloromethane	ND				
LCS1	Ethyl benzene	8	7.39	92.4	(70.00 - 130.00)	
MBLK	Ethyl benzene	ND				
MBLK	Dichlorodifluoromethane	ND				

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory
QC Report
#48988

Foster Wheeler Environmental, Inc
(continued)

LCS1	Fluorotrichloromethane-Freon11	4	3.81	95.2	(70.00 - 130.00)	
MBLK	Fluorotrichloromethane-Freon11	ND				
MBLK	Hexachlorobutadiene	ND				
MBLK	Isopropylbenzene	ND				
MBLK	m-Dichlorobenzene (1,3-DCB)	ND				
LCS1	m,p-Xylenes	16	15.1	94.4	(70.00 - 130.00)	
MBLK	m,p-Xylenes	ND				
MBLK	Naphthalene	ND				
MBLK	n-Butylbenzene	ND				
MBLK	n-Propylbenzene	ND				
LCS1	o-Xylene	8	7.77	97.1	(70.00 - 130.00)	
MBLK	o-Xylene	ND				
LCS1	o-Dichlorobenzene (1,2-DCB)	8	7.24	90.5	(70.00 - 130.00)	
MBLK	o-Dichlorobenzene (1,2-DCB)	ND				
LCS1	Tetrachloroethylene (PCE)	8	8.21	102.6	(70.00 - 130.00)	
MBLK	Tetrachloroethylene (PCE)	ND				
MBLK	p-Isopropyltoluene	ND				
MBLK	sec-Butylbenzene	ND				
LCS1	Styrene	8	7.56	94.5	(70.00 - 130.00)	
MBLK	Styrene	ND				
LCS1	1,2-dichloroethane-d4	100	102	102.0	(80.00 - 120.00)	
MBLK	1,2-dichloroethane-d4	100	93.1	93.1		
MS	1,2-dichloroethane-d4	100	106	106.0	(80.00 - 120.00)	
MSD	1,2-dichloroethane-d4	100	103	103.0	(80.00 - 120.00)	2.9
LCS1	Toluene-d8	100	100	100.0	(80.00 - 120.00)	
MBLK	Toluene-d8	100	95.4	95.4		
MS	Toluene-d8	100	102	102.0	(80.00 - 120.00)	
MSD	Toluene-d8	100	98.6	98.6	(80.00 - 120.00)	3.4
LCS1	4-Bromofluorobenzene	100	103	103.0	(80.00 - 120.00)	
MBLK	4-Bromofluorobenzene	100	108	108.0		
MS	4-Bromofluorobenzene	100	97.0	97.0	(80.00 - 120.00)	
MSD	4-Bromofluorobenzene	100	101	101.0	(80.00 - 120.00)	4.0
LCS1	trans-1,2-Dichloroethylene	8	8.27	103.4	(70.00 - 130.00)	
MBLK	trans-1,2-Dichloroethylene	ND				
MBLK	tert-Butylbenzene	ND				
LCS1	Trichloroethylene (TCE)	8	7.38	92.2	(70.00 - 130.00)	
MBLK	Trichloroethylene (TCE)	ND				

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

MS	Trichloroethylene (TCE)	8	8.15	101.9	(70.00 - 130.00)	
MSD	Trichloroethylene (TCE)	8	8.41	105.1	(70.00 - 130.00)	3.1
LCS1	Trichlorotrifluoroethane(Freon	4	3.32	83.0	(70.00 - 130.00)	
MBLK	Trichlorotrifluoroethane(Freon	ND				
MBLK	trans-1,3-Dichloropropene	ND				
LCS1	Toluene	8	7.76	97.0	(70.00 - 130.00)	
MBLK	Toluene	ND				
MS	Toluene	8	8.27	103.4	(70.00 - 130.00)	
MSD	Toluene	8	8.19	102.4	(70.00 - 130.00)	0.97
LCS1	Vinyl chloride (VC)	4	4.19	104.8	(70.00 - 130.00)	
MBLK	Vinyl chloride (VC)	ND				

QC Batch #87351 Chloride

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1104208		(0.00 - 0.00)	
LCS1	Chloride	25	25.5	102.0	(90.00 - 110.00)	
LCS2	Chloride	25	25.8	103.2	(90.00 - 110.00)	1.2
MBLK	Chloride	ND				
MS	Chloride	25	25.9	103.6	(80.00 - 120.00)	
MSD	Chloride	25	26.0	104.0	(80.00 - 120.00)	0.39

QC Batch #87353 Nitrate-N by IC

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1104208		(0.00 - 0.00)	
LCS1	Nitrate-N by IC	2.5	2.54	101.6	(90.00 - 110.00)	
LCS2	Nitrate-N by IC	2.5	2.55	102.0	(90.00 - 110.00)	0.39
MBLK	Nitrate-N by IC	ND				
MS	Nitrate-N by IC	2.5	2.53	101.2	(80.00 - 120.00)	
MSD	Nitrate-N by IC	2.5	2.54	101.6	(80.00 - 120.00)	0.39

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

QC Batch #87354 Sulfate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1104208		(0.00 - 0.00)	
LCS1	Sulfate	50	50.7	101.4	(90.00 - 110.00)	
LCS2	Sulfate	50	51.2	102.4	(90.00 - 110.00)	0.98
MBLK	Sulfate	ND				
MS	Sulfate	50	52.3	104.6	(80.00 - 120.00)	
MSD	Sulfate	50	52.7	105.4	(80.00 - 120.00)	0.76

QC Batch #87358 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab# 98	1109147		(0.00 - 0.00)	
LCS1	Chromium, Total, ICAP/MS	100	101	101.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	105	105.0	(85.00 - 115.00)	3.9
MBLK	Chromium, Total, ICAP/MS	ND				
MS	Chromium, Total, ICAP/MS	100	104	104.0	(70.00 - 130.00)	
MSD	Chromium, Total, ICAP/MS	100	99	99.0	(70.00 - 130.00)	4.9

QC Batch #87359 Iron, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1109147		(0.00 - 0.00)	
LCS1	Iron, Total, ICAP/MS	500	516	103.2	(85.00 - 115.00)	
LCS2	Iron, Total, ICAP/MS	500	523	105.0	(85.00 - 115.00)	1.3
MBLK	Iron, Total, ICAP/MS	ND				
MS	Iron, Total, ICAP/MS	500	501	100.2	(70.00 - 130.00)	
MSD	Iron, Total, ICAP/MS	500	474	94.8	(70.00 - 130.00)	5.5

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory
QC Report
#48988

Foster Wheeler Environmental, Inc
(continued)

QC Batch #87360 Lead, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab #98	1109147		(0.00 - 0.00)	
LCS1	Lead, Total, ICAP/MS	20.0	20.6	103.0	(85.00 - 115.00)	
LCS2	Lead, Total, ICAP/MS	20.0	21.4	107.0	(85.00 - 115.00)	3.8
MBLK	Lead, Total, ICAP/MS	ND				
MS	Lead, Total, ICAP/MS	20.0	21.8	109.0	(70.00 - 130.00)	
MSD	Lead, Total, ICAP/MS	20.0	20.7	103.5	(70.00 - 130.00)	5.2

QC Batch #87454 Perchlorate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1105351		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	20.5	102.5	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	21.2	106.0	(90.00 - 110.00)	3.4
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	20.5	102.5	(75.00 - 125.00)	
MSD	Perchlorate	20.0	22.4	112.0	(75.00 - 125.00)	8.9

QC Batch #87577 Calcium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1102360		(0.00 - 0.00)	
LCS1	Calcium, Total, ICAP	50	49.2	98.4	(85.00 - 115.00)	
LCS2	Calcium, Total, ICAP	50	49.5	99.0	(85.00 - 115.00)	0.61
MBLK	Calcium, Total, ICAP	ND				
MS	Calcium, Total, ICAP	50	49.4	98.8	(70.00 - 130.00)	
MSD	Calcium, Total, ICAP	50	49.6	99.2	(70.00 - 130.00)	0.40

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental, Inc
(continued)

QC Batch #87578 Potassium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1102360		(0.00 - 0.00)	
LCS1	Potassium, Total, ICAP	20	19.4	97.0	(80.00 - 110.00)	
LCS2	Potassium, Total, ICAP	20	19.5	97.5	(80.00 - 110.00)	0.51
MBLK	Potassium, Total, ICAP	ND				
MS	Potassium, Total, ICAP	20	20.0	100.0	(80.00 - 120.00)	
MSD	Potassium, Total, ICAP	20	20.0	100.0	(80.00 - 120.00)	0.00

QC Batch #87579 Magnesium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1102360		(0.00 - 0.00)	
LCS1	Magnesium, Total, ICAP	20	20.2	101.0	(85.00 - 115.00)	
LCS2	Magnesium, Total, ICAP	20	20.3	101.5	(85.00 - 115.00)	0.49
MBLK	Magnesium, Total, ICAP	ND				
MS	Magnesium, Total, ICAP	20	20.0	100.0	(70.00 - 130.00)	
MSD	Magnesium, Total, ICAP	20	20.1	100.5	(70.00 - 130.00)	0.50

QC Batch #87580 Sodium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 98	1102360		(0.00 - 0.00)	
LCS1	Sodium, Total, ICAP	50	50.2	100.4	(85.00 - 115.00)	
LCS2	Sodium, Total, ICAP	50	50.5	101.0	(85.00 - 115.00)	0.60
MBLK	Sodium, Total, ICAP	ND				
MS	Sodium, Total, ICAP	50	49.1	98.2	(70.00 - 130.00)	
MSD	Sodium, Total, ICAP	50	50.2	100.4	(70.00 - 130.00)	2.2

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES
a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400 Fax: 626 568 6324
1 800 566 LABS (1 800 566 5227)

Laboratory
QC Report
#48988

Foster Wheeler Environmental, Inc
(continued)

QC Batch #87626 Arsenic, Total, GF

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab #98	1109147		(0.00 - 0.00)	
LCS1	Arsenic, Total, GF	0.020	0.0195	97.5	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.0181	90.5	(85.00 - 115.00)	7.4
MBLK	Arsenic, Total, GF	ND				
MS	Arsenic, Total, GF	0.020	0.0207	103.5	(70.00 - 130.00)	
MSD	Arsenic, Total, GF	0.020	0.0200	100.0	(70.00 - 130.00)	3.4

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

MONTGOMERY WATSON LABORATORIES

December 4, 1998

Foster Wheeler Environmental
611 Anton Blvd Suite 800
Costa Mesa, CA.92626

Attention: Mark Cutler

Re: Report # 49057 (MW-984-102, -101, -030, -029, -025)

Dear Mark,

Enclosed please find data deliverables for the recent JPL project. A detailed quality control (QC) summary follows:

Non-conformance (LCS, MS/MSD, Surrogates, and Holding Times):
(NO3) MW-984-029, 025 were analyzed outside of the regulatory Holding Time for Nitrate analysis, due to an auto-sampler failure. See the attached QIR, #WET-98-92.

Samples requiring dilution (with increased MRL's):
None

Method blanks with compounds detected:
None

Other Comments:
Carbon Tetrachloride was detected in sample ID: MW-984-030, -029
Chloroform was detected in sample ID: MW-984-101, 030, -029
Perchlorate was detected in sample ID: MW-984-029

TICS:
None

Method Variance:
None

Sincerely,

Debbie Frank
Project Manager

cc: Judy Novelly (JPL)

a Division of Montgomery Watson Americas, Inc.

555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400
Fax: 626 568 6324

4820 South Mill Avenue
Suite 202
Tempe, Arizona 85282
Tel: 602 755 8201
Fax: 602 755 8203

Quality Environmental Analysis

Continue

Montgomery Watson Laboratories
, Los Angeles, CA 90051-3508
PHONE: 626-568-6400/FAX: 626-568-6324

ACKNOWLEDGMENT OF SAMPLES RECEIVED

Foster Wheeler Environmental, Inc
611 Anton Boulevard
Suite 800
Costa Mesa, CA 92626
Attn: Mark Cutler

Customer Code: ENSERCH
PO#: Sub PO#007618-0004
Group#: 49057
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

The following samples were received from you on 11/09/98. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using Montgomery Watson Laboratories.

Sample#	Sample Id	Tests Scheduled		Matrix			Sample Date
981109145	MW-984-102			Water			11/09/98
		@EBASVOA					
981109146	MW-984-101			Water			11/09/98
		@EBASVOA	AS-EBAS	CR-EBAS	PB-EBAS	CR-VI	
		CLO4					
981109147	MW-984-030			Water			11/09/98
		@EBASVOA	CR-VI	PB-EBAS	CR-EBAS	AS-EBAS	
		TDS	CATION1	ANION1	PH	EC	HCO3
		CO3	ALK	NO3	SO4	CL	FE-MS
		K	NA	MG	CA	CLO4	
981109148	MW-984-029			Water			11/09/98
		@EBASVOA	CLO4	CA	MG	NA	
		K	FE-MS	CL	SO4	NO3	ALK
		CO3	HCO3	EC	PH	ANION1	CATIO
		TDS	AS-EBAS	CR-EBAS	PB-EBAS	CR-VI	
981109149	MW-984-025			Water			11/09/98
		@EBASVOA	CLO4	CA	MG	NA	
		K	FE-MS	CL	SO4	NO3	ALK
		CO3	HCO3	EC	PH	ANION1	CATIO
		TDS	AS-EBAS	CR-EBAS	PB-EBAS	CR-VI	

Test Acronym Description

Test Acronym	Description
@EBASVOA	Regulated VOCs plus Lists 1&3
ALK	Alkalinity
ANION1	Anion Sum
AS-EBAS	Arsenic, Total, GF
CA	Calcium, Total, ICAP
CATION1	Cation Sum
CL	Chloride
CLO4	Perchlorate