Previous

NUMBER 1263

54879 TEMPL 6 - 12
REG ICE OK

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF

PROJECT: JPC

OFS NO.: 15 12 [illegible]

PROJECT ADDRESS: 4300 [illegible] Massachusetts

SAMPLER (Name): [illegible]

SAMPLER (Signature): [illegible]

LABORATORY: [illegible] Labs

REPORTS TO BE SENT TO: [illegible]

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

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

ANALYSES REQUIRED: [illegible]

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL: WATER	SOIL	OTHER (Describe)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				
[illegible]	0800	6/4/99	2	2, 40ml	X			X									
MW-992-[illegible]	0830	6/4/99	6	1x40ml, 1x250ml, 1x500ml, 2x1L	X			X	X	X	X	X	X				
MW-992-032	0835	6/4/99	5	2x40ml, 1x250ml, 2x1L	X			X	X		X	X					
MW-992-015	1125	6/4/99	6	2x40ml, 1x500ml, 2x1L	X			X	X	X	X	X					
MW-992-100	1130	6/4/99	5	2x40ml, 1x500ml, 2x1L	X			X	X		X	X					
MW-992-039	1405	6/4/99	6	2x40ml, 1x500ml, 1x250ml, 2x1L	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)
[illegible]		[illegible]			
COMPANY: [illegible]	TIME	COMPANY	COMPANY	TIME	COMPANY

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NUMBER 1265

FOSTER WHEELER ENVIRONMENTAL CORPORATION

logged on Sure Gp 6/7 DJB

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

PROJECT	OFS NO.
[illegible]	1576 0276

PROJECT ADDRESS: 4300 [illegible] PASADENA CA

SAMPLER (Name): [illegible]

SAMPLER (Signature): [illegible]

LABORATORY: MONTGOMERY WATSON LABS

REPORTS TO BE SENT TO: M. MARK [illegible]

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

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

ANALYSES REQUIRED: 14 Dioxins

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL: WATER	SOIL	OTHER (Describe)	14 Dioxins
MW-992-031	0820	6/4/99	1	1x1 litre	X			X
MW-992-015	1125	6/4/99	1	1x1 litre	X			X
MW-992-015AS	1125	6/4/99	1	1x1 litre	X			X
MW-992-015AD	1125	6/4/99	1	1x1 litre	X			X
MW-992-039	1105	6/4/99	1	1x1 litre	X			X

not logged QC DJB 6/4/99

LABORATORY INSTRUCTIONS/COMMENTS: Low ES [illegible]

RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)	RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)
[illegible]	[illegible]	[illegible]			
COMPANY	TIME	COMPANY	COMPANY	TIME	COMPANY
[illegible]	[illegible]	[illegible]			

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SHIPPING COPY

MONTGOMERY WATSON COOLER RECEIPT FORM

PROJECT: ENSCRCH DATE RECEIVED: 6-4-99

Use back of form to note check-in problems and describe action(s) regarding the resolution(s) of problems.

A. PRELIMINARY EXAMINATION
Date Cooler opened: 6-4-99
By (print) Mike Chiang (sign) [signature]

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

2. Were custody seals on outside of cooler? **Yes** No
   If yes, how many and where: 2 on the opening of cooler
   If yes, enter the following: seal date: 6-4-99 seal name: fm

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

4. Were custody papers sealed in bag and 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 and acknowledge receipt: MLD date: 6-4-99

B. LOGIN PHASE
Date samples were logged in: 6-4-99
By (print) M. DE MESA (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 and in good condition? **Yes** No

13. Were all bottle labels complete (ID, date, sign, preservative)?

14. Did all bottle labels agree with custody papers? If no, list on back. **Yes** No

15. Were correct containers used 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? If no, list by sample ID on back. **Yes** No

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

MONTGOMERY WATSON COOLER RECEIPT FORM

PROJECT: ENSEMH DATE RECEIVED: 6-4-99

Use back of form to note check-in problems and describe action(s) regarding the resolution(s) of problems.

A. PRELIMINARY EXAMINATION
Date Cooler opened: 6-4-99
By (print) Mike Alvarez (sign) [signature]

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

2. Were custody seals on outside of cooler? Yes No
   If yes, how many and where: 2 on the opening of cooler
   If yes, enter the following: seal date: 6-4-99 seal name: Im

3. Were custody seals unbroken and intact at delivery? (Yes) No

4. Were custody papers sealed in bag and 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 and acknowledge receipt: MLD date: 6-4-99

B. LOGIN PHASE
Date samples were logged in: 6-4-99
By (print) Mike Nelson (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 and in good condition? (Yes) No

13. Were all bottle labels complete (ID, date, sign, preservative)?

14. Did all bottle labels agree with custody papers? If no, list on back. (Yes) No

15. Were correct containers used 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? If no, list by sample ID on back. (Yes) No

19. Was Client Services informed of problems? Yes (No) N/A

QUALITY INVESTIGATION REPORT

QIR No. WET-99-UB3

Analysis Date: 06/05/99

Analysis: Nitrate

Extraction Date:

Matrix: H_2O

Analyst: ALi

Instrument ID: IC #3

SAMPLES IMPACTED

Lab #	Client ID	Client Name	Lab #	Client ID	Client Name
990604131	MW-992-039	Enserch			

Brief Description: (include reason for non-compliance)

Sample was analyzed within holding time however the Nitrate result was over the linear range. (15 ppm)

Sample was analyzed past holding time 6/17/99 with dilution and got 19.8 ppm.

Action Taken:

Reported result from 6/17/99 analysis; the result is supported by the Cation and anion balance. The result within holding time gives low bias anion sum.

Annotated the report Anion Sum = 4.98 Cation Sum = 4.95

Impact on Data Quality:

Entered 19.8 ppm and flagged it as estimate with 'E'

Data Disposition: Re-run ☑ Re-sample ☐ Original Data Reported ☐ Report Annotated ☑

Other:

Annotation:

Client Contact: MSSG Mark Cutler 6/29/99 DGB Data past HT supported by Cation anion balance will report as E past HT. not level IV. Mark on Vacation until Friday on training. Other contacts at a field site.

Extraction:		Date:	
Analyst:		Date:	06/26/99
Group Leader:		Date:	06/26/99
QA Coordinator: *		Date:	6/29/99
Project Manager:		Date:	6/29/99

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Report Summary of positive results, PR54879

			Result	MDL	UNITS
Analyzed	990604126	MW-992-109			
Analyzed	990604127	MW-992-031			
06/09/99	1,1-Dichloroethylene		0.8	.500	UGL
06/09/99	1,2-Dichloroethane		0.5	.500	UGL
06/09/99	Carbon Tetrachloride		9.8	.500	UGL
06/09/99	Chloroform (Trichloromethane)		9.4	.500	UGL
06/09/99	Tetrachloroethylene (PCE)		0.6	.500	UGL
06/10/99	Trichloroethylene (TCE)		40	1.250	UGL
06/09/99	Trichlorotrifluoroethane(Freon		1.0	.500	UGL
06/11/99	Alkalinity		148	2.000	MGL
06/22/99	Anion Sum		5.62	.001	MEQL
06/15/99	Bicarbonate as HCO3,calculated		180	.001	MGL
06/15/99	Calcium, Total, ICAP		56.5	1.000	MGL
06/15/99	Carbonate as CO3, Calculated		0.466	.001	MGL
06/16/99	Cation Sum		5.66	.001	MEQL
06/05/99	Chloride		23.2	5.000	MGL
06/11/99	Chromium, Total, ICAP/MS		24	10.000	UGL
06/04/99	Hexavalent chromium (Cr VI)		0.024	.005	MGL
06/09/99	Lab pH		7.6	.001	UNIT
06/15/99	Magnesium, Total, ICAP		19.5	.100	MGL
06/05/99	Nitrate-N by IC		11.1	.500	MGL
06/17/99	Perchlorate		120	20.000	UGL
06/15/99	Potassium, Total, ICAP		2.5	1.000	MGL
06/15/99	Sodium, Total, ICAP		26.9	1.000	MGL
06/10/99	Specific Conductance		560	4.000	UMHO
06/05/99	Sulfate		58.3	10.000	MGL
06/10/99	Total Dissolved Solid (TDS)		350	10.000	MGL
Analyzed	990604128	MW-992-032			
06/09/99	1,1-Dichloroethylene		0.8	.500	UGL
06/09/99	1,2-Dichloroethane		0.5	.500	UGL
06/09/99	Carbon Tetrachloride		9.1	.500	UGL
06/09/99	Chloroform (Trichloromethane)		9.4	.500	UGL
06/09/99	Tetrachloroethylene (PCE)		0.6	.500	UGL
06/10/99	Trichloroethylene (TCE)		41	1.250	UGL
06/09/99	Trichlorotrifluoroethane(Freon		0.9	.500	UGL
06/11/99	Chromium, Total, ICAP/MS		25	10.000	UGL
06/04/99	Hexavalent chromium (Cr VI)		0.025	.005	MGL
06/17/99	Perchlorate		120	20.000	UGL
Analyzed	990604129	MW-992-015			
06/10/99	Carbon Tetrachloride		42	1.250	UGL
06/09/99	Chloroform (Trichloromethane)		5.7	.500	UGL
06/09/99	Trichloroethylene (TCE)		14	.500	UGL
06/09/99	Trichlorotrifluoroethane(Freon		2.2	.500	UGL
06/11/99	Alkalinity		144	2.000	MGL
06/17/99	Anion Sum		4.80	.001	MEQL
06/15/99	Bicarbonate as HCO3,calculated		176	.001	MGL
06/15/99	Calcium, Total, ICAP		50.3	1.000	MGL
06/15/99	Carbonate as CO3, Calculated		0.362	.001	MGL
06/16/99	Cation Sum		4.77	.001	MEQL

06/05/99	Chloride	20.8	1.000	MGL
06/11/99	Chromium, Total, ICAP/MS	11	10.000	UGL
06/11/99	Iron, Total, ICAP/MS	880	******	UGL
06/09/99	Lab pH	7.5	.001	UNIT
06/15/99	Magnesium, Total, ICAP	16.8	.100	MGL
06/05/99	Nitrate-N by IC	4.88	.100	MGL
06/17/99	Perchlorate	120	20.000	UGL
06/15/99	Potassium, Total, ICAP	2.6	1.000	MGL
06/15/99	Sodium, Total, ICAP	18.6	1.000	MGL
06/10/99	Specific Conductance	460	4.000	UMHO
06/05/99	Sulfate	47.3	2.000	MGL
06/10/99	Total Dissolved Solid (TDS)	280	10.000	MGL
Analyzed	990604130 MW-992-200			
06/09/99	Chloroform (Trichloromethane)	2.6	.500	UGL
Analyzed	990604131 MW-992-039			
06/11/99	1,4-Dioxane	3.4	3.000	UGL
06/09/99	1,1-Dichloroethylene	1.3	.500	UGL
06/09/99	1,2-Dichloroethane	0.8	.500	UGL
06/10/99	Carbon Tetrachloride	58	2.500	UGL
06/10/99	Chloroform (Trichloromethane)	23	2.500	UGL
06/09/99	Fluorotrichloromethane-Freon11	0.5	.500	UGL
06/09/99	Tetrachloroethylene (PCE)	1.0	.500	UGL
06/09/99	Trichloroethylene (TCE)	15	.500	UGL
06/09/99	Trichlorotrifluoroethane(Freon	1.2	.500	UGL
06/11/99	Alkalinity	102	2.000	MGL
06/28/99	Anion Sum	4.98	.001	MEQL
06/15/99	Bicarbonate as HCO3,calculated	124	.001	MGL
06/15/99	Calcium, Total, ICAP	46.6	1.000	MGL
06/15/99	Carbonate as CO3, Calculated	0.255	.001	MGL
06/16/99	Cation Sum	4.95	.001	MEQL
06/05/99	Chloride	22.8	1.000	MGL
06/09/99	Lab pH	7.5	.001	UNIT
06/15/99	Magnesium, Total, ICAP	18.2	.100	MGL
06/17/99	Nitrate-N by IC	19.8E	.200	MGL
06/17/99	Perchlorate	650	80.000	UGL
06/15/99	Potassium, Total, ICAP	2.4	1.000	MGL
06/15/99	Sodium, Total, ICAP	24.3	1.000	MGL
06/10/99	Specific Conductance	500	4.000	UMHO
06/05/99	Sulfate	42.3	2.000	MGL
06/10/99	Total Dissolved Solid (TDS)	320	10.000	MGL

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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
JUN 29 1999
DEB* Debbie Frank

Report#: 54879
JPL

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Laboratory Report #54879

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

Samples Received
04-jun-1999 16:00:20

MW-992-109 (990604126) Sampled on 06/04/99

Regulated VOCs plus Lists 1&3

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	06/09/99	97476	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	06/09/99	97476	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	06/09/99	97476	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Laboratory
Report
#54879

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	06/09/99	97476	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	06/09/99	97476	(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	101	% Rec		
			(Surrogate)	Toluene-d8	99	% Rec		

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-992-031 (990604127) Sampled on 06/04/99								
	06/11/99	97564	(ML/SM2320B)	Alkalinity	148	mg/l	2.0	1
	06/22/99		(ML/SM1040)	Anion Sum	5.62	meq/l	0.0010	1
06/10/99	06/16/99	97735	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
06/15/99	06/15/99	97613	(ML/EPA 200.7)	Calcium, Total, ICAP	56.5	mg/l	1.0	1
	06/16/99		(ML/SM1040)	Cation Sum	5.66	meq/l	0.0010	1
	06/05/99	97590	(ML/EPA 300)	Chloride	23.2	mg/l	5.0	5
	06/17/99	97887	(MOD/EPA 300)	Perchlorate	120	ug/l	20	5
	06/15/99		(ML/SM2320B)	Carbonate as CO3, Calculated	0.466	mg/l	0.0010	1
06/10/99	06/11/99	97575	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	24	ug/l	10	1
	06/04/99	97150	(ML/SW 7196)	Hexavalent chromium (Cr VI)	0.024	mg/l	0.005	1
	06/10/99	97423	(ML/S2510B)	Specific Conductance	560	umho/cm	4.0	1
06/10/99	06/11/99	97577	(EPA/ML 200.8)	Iron, Total, ICAP/MS	ND	ug/l	100	1
	06/15/99		(ML/SM2320B)	Bicarbonate as HCO3,calculated	180	mg/l	0.0010	1
06/15/99	06/15/99	97616	(ML/EPA 200.7)	Potassium, Total, ICAP	2.5	mg/l	1.0	1
06/15/99	06/15/99	97620	(ML/EPA 200.7)	Magnesium, Total, ICAP	19.5	mg/l	0.10	1
06/15/99	06/15/99	97623	(ML/EPA 200.7)	Sodium, Total, ICAP	26.9	mg/l	1.0	1
	06/05/99	97594	(ML/EPA 300.0)	Nitrate-N by IC	11.1	mg/l	0.50	5
06/10/99	06/11/99	97578	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	06/09/99	97437	(ML/SM 4500HB)	Lab pH	7.6	Units	0.0010	1
	06/05/99	97597	(ML/EPA 300.0)	Sulfate	58.3	mg/l	10	5
	06/10/99	97591	(ML/SM2540C)	Total Dissolved Solid (TDS)	350	mg/l	10	1
			1,4-Dioxane					
06/08/99	06/11/99	97632	(ML/SW 8270)	1,4-Dioxane	ND	ug/l	3.0	1
			(Surrogate)	2-Flurobiphenyl	97	% Rec		
			(Surrogate)	Nitrobenzene-d5	105	% Rec		
			(Surrogate)	Terphenyl-d14	78	% Rec		
			Regulated VOCs plus Lists 1&3					
	06/09/99	97476	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1

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Laboratory
Report
#54879

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	06/09/99	97476	(ML/EPA 524.2)	1,1-Dichloroethylene	0.8	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,2-Dichloroethane	0.5	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	06/09/99	97476	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	06/09/99	97476	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Carbon Tetrachloride	9.8	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Chloroform (Trichloromethane)	9.4	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	06/09/99	97476	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	0.6	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	06/10/99	97476	(ML/EPA 524.2)	Trichloroethylene (TCE)	40	ug/l	1.2	2.5
	06/09/99	97476	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	1.0	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	06/09/99	97476	(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	96	% Rec		
			(Surrogate)	Toluene-d8	102	% Rec		

MW-992-032 (990604128) Sampled on 06/04/99

06/10/99	06/16/99	97735	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	06/17/99	97887	(MOD/EPA 300)	Perchlorate	120	ug/l	20	5
06/10/99	06/11/99	97575	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	25	ug/l	10	1
	06/04/99	97150	(ML/SW 7196)	Hexavalent chromium (Cr VI)	0.025	mg/l	0.005	1
06/10/99	06/11/99	97578	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1

Regulated VOCs plus Lists 1&3

	06/09/99	97476	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	06/09/99	97476	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,1-Dichloroethylene	0.8	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,2-Dichloroethane	0.5	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	06/09/99	97476	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	06/09/99	97476	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Carbon Tetrachloride	9.1	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Chloroform (Trichloromethane)	9.4	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	06/09/99	97476	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	0.6	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	06/10/99	97476	(ML/EPA 524.2)	Trichloroethylene (TCE)	41	ug/l	1.2	2.5
	06/09/99	97476	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	0.9	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	06/09/99	97476	(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	101	% Rec		
			(Surrogate)	Toluene-d8	105	% Rec		

MW-992-015 (990604129) Sampled on 06/04/99

	06/11/99	97564	(ML/SM2320B)	Alkalinity	144	mg/l	2.0	1
	06/17/99		(ML/SM1040)	Anion Sum	4.80	meq/l	0.0010	1
06/10/99	06/16/99	97735	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
06/15/99	06/15/99	97613	(ML/EPA 200.7)	Calcium, Total, ICAP	50.3	mg/l	1.0	1
	06/16/99		(ML/SM1040)	Cation Sum	4.77	meq/l	0.0010	1
	06/05/99	97590	(ML/EPA 300)	Chloride	20.8	mg/l	1.0	1
	06/17/99	97887	(MOD/EPA 300)	Perchlorate	120	ug/l	20	5
	06/15/99		(ML/SM2320B)	Carbonate as CO3, Calculated	0.362	mg/l	0.0010	1
06/10/99	06/11/99	97575	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	11	ug/l	10	1
	06/04/99	97150	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	06/10/99	97425	(ML/S2510B)	Specific Conductance	460	umho/cm	4.0	1
06/10/99	06/11/99	97577	(EPA/ML 200.8)	Iron, Total, ICAP/MS	880	ug/l	100	1
	06/15/99		(ML/SM2320B)	Bicarbonate as HCO3,calculated	176	mg/l	0.0010	1
06/15/99	06/15/99	97616	(ML/EPA 200.7)	Potassium, Total, ICAP	2.6	mg/l	1.0	1
06/15/99	06/15/99	97620	(ML/EPA 200.7)	Magnesium, Total, ICAP	16.8	mg/l	0.10	1
06/15/99	06/15/99	97623	(ML/EPA 200.7)	Sodium, Total, ICAP	18.6	mg/l	1.0	1
	06/05/99	97594	(ML/EPA 300.0)	Nitrate-N by IC	4.88	mg/l	0.10	1
06/10/99	06/11/99	97578	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	06/09/99	97437	(ML/SM 4500HB)	Lab pH	7.5	Units	0.0010	1
	06/05/99	97597	(ML/EPA 300.0)	Sulfate	47.3	mg/l	2.0	1
	06/10/99	97591	(ML/SM2540C)	Total Dissolved Solid (TDS)	280	mg/l	10	1
			1,4-Dioxane					
06/08/99	06/11/99	97632	(ML/SW 8270)	1,4-Dioxane	ND	ug/l	3.0	1
			(Surrogate)	2-Flurobiphenyl	84	% Rec		
			(Surrogate)	Nitrobenzene-d5	85	% Rec		
			(Surrogate)	Terphenyl-d14	79	% Rec		
			Regulated VOCs plus Lists 1&3					
	06/09/99	97476	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1

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Laboratory Report #54879

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	06/09/99	97476	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	06/09/99	97476	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	06/09/99	97476	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	06/10/99	97476	(ML/EPA 524.2)	Carbon Tetrachloride	42	ug/l	1.2	2.5
	06/09/99	97476	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Chloroform (Trichloromethane)	5.7	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1

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Laboratory Report #54879

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	06/09/99	97476	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Trichloroethylene (TCE)	14	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	2.2	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	06/09/99	97476	(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	99	% Rec		

MW-992-200 (990604130) Sampled on 06/04/99

06/10/99	06/16/99	97735	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	06/16/99	97711	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
06/10/99	06/11/99	97575	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	06/04/99	97150	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
06/10/99	06/11/99	97578	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1

Regulated VOCs plus Lists 1&3

	06/09/99	97476	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	06/09/99	97476	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	06/09/99	97476	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	06/09/99	97476	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Chloroform (Trichloromethane)	2.6	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	06/09/99	97476	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	06/09/99	97476	(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	102	% Rec		
			(Surrogate)	Toluene-d8	98	% Rec		

MW-992-039 (990604131) Sampled on 06/04/99

	06/11/99	97564	(ML/SM2320B)	Alkalinity	102	mg/l	2.0	1
	06/28/99		(ML/SM1040)	Anion Sum	4.98	meq/l	0.0010	1
06/10/99	06/16/99	97735	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
06/15/99	06/15/99	97613	(ML/EPA 200.7)	Calcium, Total, ICAP	46.6	mg/l	1.0	1
	06/16/99		(ML/SM1040)	Cation Sum	4.95	meq/l	0.0010	1
	06/05/99	97590	(ML/EPA 300)	Chloride	22.8	mg/l	1.0	1
	06/17/99	97887	(MOD/EPA 300)	Perchlorate	650	ug/l	80	20
	06/15/99		(ML/SM2320B)	Carbonate as CO3, Calculated	0.255	mg/l	0.0010	1
06/10/99	06/11/99	97575	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	06/04/99	97150	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	06/10/99	97425	(ML/S2510B)	Specific Conductance	500	umho/cm	4.0	1
06/10/99	06/11/99	97577	(EPA/ML 200.8)	Iron, Total, ICAP/MS	ND	ug/l	100	1
	06/15/99		(ML/SM2320B)	Bicarbonate as HCO3,calculated	124	mg/l	0.0010	1
06/15/99	06/15/99	97616	(ML/EPA 200.7)	Potassium, Total, ICAP	2.4	mg/l	1.0	1
06/15/99	06/15/99	97620	(ML/EPA 200.7)	Magnesium, Total, ICAP	18.2	mg/l	0.10	1
06/15/99	06/15/99	97623	(ML/EPA 200.7)	Sodium, Total, ICAP	24.3	mg/l	1.0	1
	06/17/99	97594	(ML/EPA 300.0)	Nitrate-N by IC	19.8E	mg/l	0.20	2
06/10/99	06/11/99	97578	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	06/09/99	97437	(ML/SM 4500HB)	Lab pH	7.5	Units	0.0010	1
	06/05/99	97597	(ML/EPA 300.0)	Sulfate	42.3	mg/l	2.0	1
	06/10/99	97591	(ML/SM2540C)	Total Dissolved Solid (TDS)	320	mg/l	10	1

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
			1,4-Dioxane					
06/08/99	06/11/99	97632	(ML/SW 8270)	1,4-Dioxane	3.4	ug/l	3.0	1
			(Surrogate)	2-Flurobiphenyl	88	% Rec		
			(Surrogate)	Nitrobenzene-d5	89	% Rec		
			(Surrogate)	Terphenyl-d14	48	% Rec		
			Regulated VOCs plus Lists 1&3					
	06/09/99	97476	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,1-Dichloroethylene	1.3	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,2-Dichloroethane	0.8	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	06/09/99	97476	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	06/09/99	97476	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	06/10/99	97476	(ML/EPA 524.2)	Carbon Tetrachloride	58	ug/l	2.5	5

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Laboratory Report #54879

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	06/09/99	97476	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	06/10/99	97476	(ML/EPA 524.2)	Chloroform (Trichloromethane)	23	ug/l	2.5	5
	06/09/99	97476	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	0.5	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	1.0	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Trichloroethylene (TCE)	15	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	1.2	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/09/99	97476	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	06/09/99	97476	(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	107	% Rec		

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
			(Surrogate	) Toluene-d8	99	% Rec		

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Report
Comments
#54879

Group Comments

(Nitrate) Sample 990604131 MW-992-039 was analyzed within holding time on sat. 6/05/99. However the reslt was greater than the linear range. Sample was analyzed past holding time and reported as an estimate.The reported result is supported by the cation and anion sum balance.

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Foster Wheeler Environmental, Inc

QC Batch #97150 Hexavalent chromium (Cr VI)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0604127		(0.00 - 0.00)	
LCS1	Hexavalent chromium (Cr VI)	0.050	0.050	100.0	(78.00 - 118.00)	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.052	104.0	(78.00 - 118.00)	3.9
MBLK	Hexavalent chromium (Cr VI)	ND				
MS	Hexavalent chromium (Cr VI)	0.050	0.051	102.0	(80.00 - 120.00)	
MSD	Hexavalent chromium (Cr VI)	0.050	0.050	100.0	(80.00 - 120.00)	2.0

QC Batch #97423 Specific Conductance

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 99	0604127		(0.00 - 0.00)	

QC Batch #97425 Specific Conductance

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 99	0608057		(0.00 - 0.00)	

QC Batch #97437 Lab pH

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	lab # 99	0607115		(0.00 - 0.00)	

QC Batch #97476 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	4	4.17	104.2	(76.00 - 116.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	3.60	90.0	(72.00 - 117.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	3.97	99.2	(71.00 - 116.00)	
MBLK	1,1,2-Trichloroethane	ND				

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LCS1	1,1-Dichloroethane	4	4.05	101.2	(71.00 - 125.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	3.47	86.8	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MS	1,1-Dichloroethylene	4	4.67	116.8	(70.00 - 130.00)	
MSD	1,1-Dichloroethylene	4	4.95	123.8	(70.00 - 130.00)	5.8
MBLK	1,1-Dichloropropene	ND				
MBLK	1,2,3-Trichlorobenzene	ND				
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	4	4.02	100.5	(76.00 - 114.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	4	3.99	99.8	(75.00 - 120.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	4	3.95	98.8	(77.00 - 122.00)	
MBLK	1,2-Dichloropropane	ND				
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	8	7.74	96.8	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
LCS1	p-Dichlorobenzene (1,4-DCB)	4	3.92	98.0	(77.00 - 113.00)	
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 # 99	0603162		(0.00 - 0.00)	
LCS1	Benzene	4	4.02	100.5	(76.00 - 122.00)	
MBLK	Benzene	ND				
MS	Benzene	4	3.89	97.2	(70.00 - 130.00)	
MSD	Benzene	4	3.92	98.0	(70.00 - 130.00)	0.77
MBLK	Bromobenzene	ND				
MBLK	Bromomethane (Methyl Bromide)	ND				
LCS1	cis-1,2-Dichloroethylene	4	3.79	94.8	(70.00 - 130.00)	
MBLK	cis-1,2-Dichloroethylene	ND				
LCS1	Chlorobenzene	4	3.96	99.0	(70.00 - 130.00)	

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(continued)

MBLK	Chlorobenzene	ND				
MS	Chlorobenzene	4	4.00	100.0	(70.00 - 130.00)	
MSD	Chlorobenzene	4	4.02	100.5	(70.00 - 130.00)	0.50
LCS1	Carbon Tetrachloride	4	3.99	99.8	(70.00 - 130.00)	
MBLK	Carbon Tetrachloride	ND				
MBLK	cis-1,3-Dichloropropene	ND				
LCS1	Bromoform	8	6.41	80.1	(70.00 - 130.00)	
MBLK	Bromoform	ND				
LCS1	Chloroform (Trichloromethane)	4	3.92	98.0	(70.00 - 130.00)	
MBLK	Chloroform (Trichloromethane)	ND				
MBLK	Bromochloromethane	ND				
MBLK	Chloroethane	ND				
MBLK	Chloromethane(Methyl Chloride)	ND				
LCS1	Chlorodibromomethane	4	3.47	86.8	(70.00 - 130.00)	
MBLK	Chlorodibromomethane	ND				
MBLK	Dibromomethane	ND				
LCS1	Bromodichloromethane	4	3.81	95.2	(70.00 - 130.00)	
MBLK	Bromodichloromethane	ND				
LCS1	Dichloromethane	4	2.96	74.0	(70.00 - 130.00)	
MBLK	Dichloromethane	ND				
LCS1	Ethyl benzene	4	4.24	106.0	(70.00 - 130.00)	
MBLK	Ethyl benzene	ND				
MBLK	Dichlorodifluoromethane	ND				
LCS1	Fluorotrichloromethane-Freon11	2	2.18	109.0	(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	8	8.18	102.2	(70.00 - 130.00)	
MBLK	m,p-Xylenes	ND				
MBLK	Naphthalene	ND				
MBLK	n-Butylbenzene	ND				
MBLK	n-Propylbenzene	ND				
LCS1	o-Xylene	4	4.15	103.8	(70.00 - 130.00)	
MBLK	o-Xylene	ND				
LCS1	o-Dichlorobenzene (1,2-DCB)	4	3.83	95.8	(70.00 - 130.00)	
MBLK	o-Dichlorobenzene (1,2-DCB)	ND				

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LCS1	Tetrachloroethylene (PCE)	4	4.14	103.5	(70.00 - 130.00)	
MBLK	Tetrachloroethylene (PCE)	ND				
MBLK	p-Isopropyltoluene	ND				
MBLK	sec-Butylbenzene	ND				
LCS1	Styrene	4	4.00	100.0	(70.00 - 130.00)	
MBLK	Styrene	ND				
LCS1	1,2-dichloroethane-d4	100	103	103.0	(80.00 - 120.00)	
MBLK	1,2-dichloroethane-d4	100	110	110.0		
MS	1,2-dichloroethane-d4	100	105	105.0	(80.00 - 120.00)	
MSD	1,2-dichloroethane-d4	100	111	111.0	(80.00 - 120.00)	5.6
LCS1	Toluene-d8	100	107	107.0	(80.00 - 120.00)	
MBLK	Toluene-d8	100	101	101.0		
MS	Toluene-d8	100	106	106.0	(80.00 - 120.00)	
MSD	Toluene-d8	100	105	105.0	(80.00 - 120.00)	0.95
LCS1	4-Bromofluorobenzene	100	101	101.0	(80.00 - 120.00)	
MBLK	4-Bromofluorobenzene	100	93.4	93.4		
MS	4-Bromofluorobenzene	100	101	101.0	(80.00 - 120.00)	
MSD	4-Bromofluorobenzene	100	105	105.0	(80.00 - 120.00)	3.9
LCS1	trans-1,2-Dichloroethylene	4	3.47	86.8	(70.00 - 130.00)	
MBLK	trans-1,2-Dichloroethylene	ND				
MBLK	tert-Butylbenzene	ND				
LCS1	Trichloroethylene (TCE)	4	3.96	99.0	(70.00 - 130.00)	
MBLK	Trichloroethylene (TCE)	ND				
MS	Trichloroethylene (TCE)	4	2.83	70.8	(70.00 - 130.00)	
MSD	Trichloroethylene (TCE)	4	3.21	80.2	(70.00 - 130.00)	13
LCS1	Trichlorotrifluoroethane(Freon	2	1.75	87.5	(70.00 - 130.00)	
MBLK	Trichlorotrifluoroethane(Freon	ND				
MBLK	trans-1,3-Dichloropropene	ND				
LCS1	Toluene	4	3.96	99.0	(70.00 - 130.00)	
MBLK	Toluene	ND				
MS	Toluene	4	4.06	101.5	(70.00 - 130.00)	
MSD	Toluene	4	4.06	101.5	(70.00 - 130.00)	0.00
LCS1	Vinyl chloride (VC)	2	2.42	121.0	(70.00 - 130.00)	
MBLK	Vinyl chloride (VC)	ND				

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(continued)

QC Batch #97564 Alkalinity

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0602126		(0.00 - 0.00)	
LCS1	Alkalinity	96.2	97.4	101.2	(96.00 - 107.00)	
LCS2	Alkalinity	96.2	98.1	102.0	(96.00 - 107.00)	0.72
MBLK	Alkalinity	ND				
MS	Alkalinity	96.2	90.2	93.8	(80.00 - 120.00)	
MSD	Alkalinity	96.2	91.3	94.9	(80.00 - 120.00)	1.2

QC Batch #97575 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0603162		(0.00 - 0.00)	
LCS1	Chromium, Total, ICAP/MS	100	99	99.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	105	105.0	(85.00 - 115.00)	5.9
MBLK	Chromium, Total, ICAP/MS	ND				
MS	Chromium, Total, ICAP/MS	100	103	103.0	(77.00 - 119.00)	
MSD	Chromium, Total, ICAP/MS	100	96	96.0	(77.00 - 119.00)	7.0

QC Batch #97577 Iron, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0603162		(0.00 - 0.00)	
LCS1	Iron, Total, ICAP/MS	500	509	101.8	(85.00 - 115.00)	
LCS2	Iron, Total, ICAP/MS	500	535	107.0	(85.00 - 115.00)	5.0
MBLK	Iron, Total, ICAP/MS	ND				
MS	Iron, Total, ICAP/MS	500	520	104.0	(70.00 - 130.00)	
MSD	Iron, Total, ICAP/MS	500	481	96.2	(70.00 - 130.00)	7.8

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QC Batch #97578 Lead, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0603162		(0.00 - 0.00)	
LCS1	Lead, Total, ICAP/MS	20.0	21.5	107.5	(87.00 - 108.00)	
LCS2	Lead, Total, ICAP/MS	20.0	21.3	106.5	(87.00 - 108.00)	0.93
MBLK	Lead, Total, ICAP/MS	ND				
MS	Lead, Total, ICAP/MS	20.0	21.6	108.0	(75.00 - 119.00)	
MSD	Lead, Total, ICAP/MS	20.0	21.5	107.5	(75.00 - 119.00)	0.46

QC Batch #97590 Chloride

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0604127		(0.00 - 0.00)	
LCS1	Chloride	25	25.8	103.2	(90.00 - 110.00)	
LCS2	Chloride	25	26	104.0	(90.00 - 110.00)	0.77
MBLK	Chloride	ND				
MS	Chloride	25	26.1	104.4	(80.00 - 120.00)	
MSD	Chloride	25	26.1	104.4	(80.00 - 120.00)	0.00

QC Batch #97591 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 99	0603161		(0.00 - 0.00)	
LCS1	Total Dissolved Solid (TDS)	175	172	98.3	(85.00 - 115.00)	
LCS2	Total Dissolved Solid (TDS)	700	680	97.1	(85.00 - 115.00)	
MBLK	Total Dissolved Solid (TDS)	ND				

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QC Batch #97594 Nitrate-N by IC

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0604127		(0.00 - 0.00)	
LCS1	Nitrate-N by IC	2.5	2.66	106.4	(94.00 - 106.00)	
LCS2	Nitrate-N by IC	2.5	2.66	106.4	(94.00 - 106.00)	0.00
MBLK	Nitrate-N by IC	ND				
MS	Nitrate-N by IC	2.5	2.76	110.4	(85.00 - 118.00)	
MSD	Nitrate-N by IC	2.5	2.30	92.0	(85.00 - 118.00)	18

QC Batch #97597 Sulfate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0604127		(0.00 - 0.00)	
LCS1	Sulfate	50	51.5	103.0	(95.00 - 104.00)	
LCS2	Sulfate	50	51.3	102.6	(95.00 - 104.00)	0.39
MBLK	Sulfate	ND				
MS	Sulfate	50	52.3	104.6	(97.00 - 112.00)	
MSD	Sulfate	50	52.3	104.6	(97.00 - 112.00)	0.00

QC Batch #97613 Calcium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0602124		(0.00 - 0.00)	
LCS1	Calcium, Total, ICAP	50	51.8	103.6	(85.00 - 115.00)	
LCS2	Calcium, Total, ICAP	50	52.4	104.8	(85.00 - 115.00)	1.2
MBLK	Calcium, Total, ICAP	ND				
MS	Calcium, Total, ICAP	50	50.6	101.2	(70.00 - 130.00)	
MSD	Calcium, Total, ICAP	50	49.2	98.4	(70.00 - 130.00)	2.8

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
#54879

Foster Wheeler Environmental, Inc
(continued)

QC Batch #97616 Potassium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0602124		(0.00 - 0.00)	
LCS1	Potassium, Total, ICAP	20	20.6	103.0	(80.00 - 110.00)	
LCS2	Potassium, Total, ICAP	20	21.1	105.5	(80.00 - 110.00)	2.4
MBLK	Potassium, Total, ICAP	ND				
MS	Potassium, Total, ICAP	20	20.6	103.0	(80.00 - 120.00)	
MSD	Potassium, Total, ICAP	20	20.1	100.5	(80.00 - 120.00)	2.5

QC Batch #97620 Magnesium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0602124		(0.00 - 0.00)	
LCS1	Magnesium, Total, ICAP	20	20.8	104.0	(97.00 - 115.00)	
LCS2	Magnesium, Total, ICAP	20	21.1	105.5	(97.00 - 115.00)	1.4
MBLK	Magnesium, Total, ICAP	ND				
MS	Magnesium, Total, ICAP	20	20.5	102.5	(74.00 - 130.00)	
MSD	Magnesium, Total, ICAP	20	19.9	99.5	(74.00 - 130.00)	3.0

QC Batch #97623 Sodium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0602124		(0.00 - 0.00)	
LCS1	Sodium, Total, ICAP	50	52.6	105.2	(94.00 - 112.00)	
LCS2	Sodium, Total, ICAP	50	53.2	106.4	(94.00 - 112.00)	1.1
MBLK	Sodium, Total, ICAP	ND				
MS	Sodium, Total, ICAP	50	51.7	103.4	(82.00 - 114.00)	
MSD	Sodium, Total, ICAP	50	50.3	100.6	(82.00 - 114.00)	2.7

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
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Laboratory
QC Report
#54879

Foster Wheeler Environmental, Inc
(continued)

QC Batch #97632 1,4-Dioxane

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	1,4-Dioxane	10	9.55	95.5	(70.00 - 130.00)	
MBLK	1,4-Dioxane	ND				
MS	1,4-Dioxane	10	11.1	111.0	(70.00 - 130.00)	
MSD	1,4-Dioxane	10	10.5	105.0	(70.00 - 130.00)	5.6
MS	Spiked sample	Lab # 99	0604129		(0.00 - 0.00)	

QC Batch #97711 Perchlorate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0603162		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	20	100.0	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	20.8	104.0	(90.00 - 110.00)	3.9
MBLK	Perchlorate	ND				

QC Batch #97735 Arsenic, Total, GF

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0603162		(0.00 - 0.00)	
LCS1	Arsenic, Total, GF	0.020	0.0208	104.0	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.0207	103.5	(85.00 - 115.00)	0.48
MBLK	Arsenic, Total, GF	ND				
MS	Arsenic, Total, GF	0.020	0.0222	111.0	(70.00 - 130.00)	
MSD	Arsenic, Total, GF	0.020	0.0226	113.0	(70.00 - 130.00)	1.8

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.

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Laboratory
QC Report
#54879

Foster Wheeler Environmental, Inc
(continued)

QC Batch #97887 Perchlorate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0604127		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	19.7	98.5	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	18.4	92.0	(90.00 - 110.00)	6.8
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	20.5	102.5	(75.00 - 125.00)	
MSD	Perchlorate	20.0	20.6	103.0	(75.00 - 125.00)	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

Quality Environmental Analysis

A division of Montgomery Watson Americas, Inc.

June 28, 1999

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

Attention: Mark Cutler

Re: Report # 54920 (MW-992-110, MW-992-014, MW-992-018, MW-992-019, MW-992-013, MW-992-016)

Sampled: 6/07/99

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)
Fluorotrichloromethane (Freon 11): MWL internal control limits based on recent control charts are 71-118%. The LCS recovered at 121%. Method and QAPP limits are 70-130%. The LCS is within method control limits. Results are reported without qualification.

Samples requiring dilution (with increased MRL's):
MW-992-014 was diluted for Anions.

Method blanks with compounds detected:
None

Comments:
Tetrachloroethylene was detected in MW-992-014
Trichloroethylene was detected in MW-992-018, -019
Chromium was detected in MW-992-014
Perchlorate was detected in MW-992-018, -019

TIC's:
None

Method Variance:
None

Other Comments:
The Cation/Anion Balance for MW-992-014 exceeds the MWL acceptance criteria of 5% at 7%. According to the EC check, it appears the cations may contain a high bias.

Sincerely,

Debbie Frank
Project Manager

cc: Judy Novelly (JPL)

Laboratory
555 East Walnut Street
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Southwest Service Center
4820 South Mill Avenue - Suite 202
Tempe, Arizona 85282
Tel: 602 755 8201
Fax: 602 755 8203

Northern California Service Center
1340 Treat Boulevard - Suite 300
Walnut Creek, California 94596
Tel: 925 274 2322
Fax: 925 945 1760

Southern California Service Center
30 Corporate Park - Suite 302
Irvine, California 92606
Tel: 949 222 1845
Fax: 949 222 1849

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#007618-0006
Group#: 54920
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

The following samples were received from you on 06/07/99. 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.

ample#	Sample Id	Tests Scheduled	Matrix	Sample Date
990607136	MW-992-110		Water	06/07/99
		@EBASVOA		
990607137	MW-992-014		Water	06/07/99
		@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		
90607138	MW-992-018		Water	06/07/99
		@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		
990607139	MW-992-019		Water	06/07/99
		@EBASVOA AS-EBAS CR-EBAS PB-EBAS CR-VI		
		CLO4		
990607140	MW-992-013		Water	06/07/99
		@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		
990607141	MW-992-016		Water	06/07/99
		@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
@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#007618-0006
Group#: 54920
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)

64920

TEMP - 6 - 13

REF ICE OK

NUMBER 1266

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PROJECT: JPL

OFS NO.: 1572 0276

PROJECT ADDRESS: 4800 OAK GROVE DR PASADENA CA

SAMPLER (Name): J B LANNIE

SAMPLER (Signature): [illegible]

LABORATORY: MONTGOMERY WATSON LABS

REPORTS TO BE SENT TO: MR MARC [illegible]

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 8)	Total Petr. Hydrocarbons (Gas/Diesel)	Metals (Cd, Cr, Pb, Zn) + TDS	Cr+6	ClO4	MS for VOCs	MS for VOCs	Metals	Oil & Grease
MW 992 110	0900	6/7/99	2	2 x 40ml	X			X								
MW 992 014	1010		6	2 x 40ml 2 x 125ml	X			X	X	X	X	X			X	
MW 992 014MS	1010		2	2 x 40ml	X								X			
MW 992 014MD	1010		2	2 x 40ml	X									X		
MW 992 018	1125		6	2 x 40ml 1 x 125ml 2 x 125ml 1 x 500ml	X			X	X	X	X	X				
MW 992 017	1130		5	2 x 40ml 2 x 125ml				X	X	X	X	X				
MW 992-018	1400		6	2 x 40ml 1 x 125ml 2 x 125ml 1 x 500ml				X	X	X	X	X				
MW 992-016	1505		6	5	X			X	X	X	X	X				X

LABORATORY INSTRUCTIONS/COMMENTS

LOW BLANK

RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)	RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)
[illegible]	[illegible]	[illegible]			
COMPANY: [illegible]	TIME: [illegible]	COMPANY: [illegible]	COMPANY	TIME	COMPANY

F-2

MONTGOMERY WATSON COOLER RECEIPT FORM

PROJECT: ENSERCH DATE RECEIVED: 6-7-99

Use back of form to note check-in problems and describe action(s) regarding the resolution(s) of problems.

A. PRELIMINARY EXAMINATION
Date Cooler opened: 6-7-99
By (print) MARTIN L. DE MESA (sign)

1. Did cooler come with shipping slip (air bill, etc.)? Yes No
If yes, attach and enter carrier and air bill number here: DEL BY CLIENT

2. Were custody seals on outside of cooler? Yes No
If yes, how many and where: 2 OUTSIDE LID
If yes, enter the following: seal date: 6-7-99 seal name: IM

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

4. Were custody papers sealed in bag and 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 and acknowledge receipt: MLD date: 6-7-99

B. LOGIN PHASE
Date samples were logged in: 6-7-99
By (print) M. DE MESA (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 and in good condition? Yes No

13. Were all bottle labels complete (ID, date, sign, preservative)?

14. Did all bottle labels agree with custody papers? If no, list on back. Yes No

15. Were correct containers used 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? If no, list by sample ID on back. Yes No

19. Was Client Services informed of problems? Yes No N/A

Report Summary of positive results, PR54920

		Result	MDL	UNITS
Analyzed	990607136 MW-992-110			
Analyzed	990607137 MW-992-014			
06/10/99	Tetrachloroethylene (PCE)	1.5	.500	UGL
06/16/99	Alkalinity	175	2.000	MGL
06/17/99	Anion Sum	7.70	.001	MEQL
06/17/99	Bicarbonate as HCO3,calculated	213	.001	MGL
06/15/99	Calcium, Total, ICAP	89.8	1.000	MGL
06/17/99	Carbonate as CO3, Calculated	0.219	.001	MGL
06/16/99	Cation Sum	8.26	.001	MEQL
06/08/99	Chloride	78.2	2.000	MGL
06/11/99	Chromium, Total, ICAP/MS	36	10.000	UGL
06/11/99	Iron, Total, ICAP/MS	430	******	UGL
06/08/99	Lab pH	7.2	.001	UNIT
06/15/99	Magnesium, Total, ICAP	30.5	.100	MGL
06/15/99	Potassium, Total, ICAP	2.0	1.000	MGL
06/15/99	Sodium, Total, ICAP	27.8	1.000	MGL
06/10/99	Specific Conductance	790	4.000	UMHO
06/08/99	Sulfate	95.6	4.000	MGL
06/12/99	Total Dissolved Solid (TDS)	470	10.000	MGL
Analyzed	990607138 MW-992-018			
06/10/99	Trichloroethylene (TCE)	1.1	.500	UGL
06/16/99	Alkalinity	174	2.000	MGL
06/22/99	Anion Sum	5.61	.001	MEQL
06/17/99	Bicarbonate as HCO3,calculated	212	.001	MGL
06/15/99	Calcium, Total, ICAP	61.4	1.000	MGL
06/17/99	Carbonate as CO3, Calculated	0.218	.001	MGL
06/16/99	Cation Sum	5.57	.001	MEQL
06/08/99	Chloride	20.6	1.000	MGL
06/08/99	Lab pH	7.2	.001	UNIT
06/15/99	Magnesium, Total, ICAP	20.6	.100	MGL
06/08/99	Nitrate-N by IC	5.17	.100	MGL
06/16/99	Perchlorate	10	4.000	UGL
06/15/99	Potassium, Total, ICAP	2.6	1.000	MGL
06/15/99	Sodium, Total, ICAP	16.9	1.000	MGL
06/10/99	Specific Conductance	515	4.000	UMHO
06/08/99	Sulfate	56.8	2.000	MGL
06/12/99	Total Dissolved Solid (TDS)	300	10.000	MGL
Analyzed	990607139 MW-992-019			
06/10/99	Trichloroethylene (TCE)	1.0	.500	UGL
06/16/99	Perchlorate	11	4.000	UGL
Analyzed	990607140 MW-992-013			
06/16/99	Alkalinity	158	2.000	MGL
06/17/99	Anion Sum	4.20	.001	MEQL
06/17/99	Bicarbonate as HCO3,calculated	193	.001	MGL
06/15/99	Calcium, Total, ICAP	45.7	1.000	MGL
06/17/99	Carbonate as CO3, Calculated	0.158	.001	MGL
06/16/99	Cation Sum	4.21	.001	MEQL

06/08/99	Chloride	10.3	1.000	MGL
06/08/99	Lab pH	7.1	.001	UNIT
06/15/99	Magnesium, Total, ICAP	14.3	.100	MGL
06/08/99	Nitrate-N by IC	1.83	.100	MGL
06/15/99	Potassium, Total, ICAP	2.9	1.000	MGL
06/15/99	Sodium, Total, ICAP	15.5	1.000	MGL
06/10/99	Specific Conductance	400	4.000	UMHO
06/08/99	Sulfate	29.9	2.000	MGL
06/12/99	Total Dissolved Solid (TDS)	240	10.000	MGL

Analyzed 990607141 MW-992-016

06/16/99	Alkalinity	131	2.000	MGL
06/17/99	Anion Sum	3.64	.001	MEQL
06/17/99	Bicarbonate as HCO3,calculated	160	.001	MGL
06/15/99	Calcium, Total, ICAP	38.3	1.000	MGL
06/17/99	Carbonate as CO3, Calculated	0.207	.001	MGL
06/16/99	Cation Sum	3.67	.001	MEQL
06/08/99	Chloride	11.1	1.000	MGL
06/08/99	Lab pH	7.3	.001	UNIT
06/15/99	Magnesium, Total, ICAP	12.8	.100	MGL
06/08/99	Nitrate-N by IC	1.11	.100	MGL
06/15/99	Potassium, Total, ICAP	2.3	1.000	MGL
06/15/99	Sodium, Total, ICAP	14.7	1.000	MGL
06/10/99	Specific Conductance	345	4.000	UMHO
06/08/99	Sulfate	30.3	2.000	MGL
06/12/99	Total Dissolved Solid (TDS)	200	10.000	MGL

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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
JUN 25 1999

DEB* Debbie Frank

Report#: 54920
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
#54920

Group Comments

(Balance) The anion and cation percent RPD for the sums is 7% exceeding the recommended 5%. According to the EC value the cation might be slightly high bias. The calculated sum from EC is 7.9 a value between the Anion sum of 7.7 and the cation sum of 8.26.

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Laboratory Report #54920

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

Samples Received
07-jun-1999 16:30:01

MW-992-110 (990607136) Sampled on 06/07/99

Regulated VOCs plus Lists 1&3

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
06/10/99	97624		(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
06/10/99	97624		(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
06/10/99	97624		(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
06/10/99	97624		(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
06/10/99	97624		(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
06/10/99	97624		(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
06/10/99	97624		(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
06/10/99	97624		(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
06/10/99	97624		(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
06/10/99	97624		(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
06/10/99	97624		(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
06/10/99	97624		(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
06/10/99	97624		(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
06/10/99	97624		(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
06/10/99	97624		(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
06/10/99	97624		(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
06/10/99	97624		(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
06/10/99	97624		(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
06/10/99	97624		(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
06/10/99	97624		(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
06/10/99	97624		(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
06/10/99	97624		(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
06/10/99	97624		(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
06/10/99	97624		(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
06/10/99	97624		(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
06/10/99	97624		(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
06/10/99	97624		(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
06/10/99	97624		(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
06/10/99	97624		(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Laboratory Report #54920

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	06/10/99	97624	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	06/10/99	97624	(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	98	% Rec		
			(Surrogate)	Toluene-d8	103	% Rec		

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Laboratory
Report
#54920

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-992-014 (990607137) Sampled on 06/07/99								
	06/16/99	97787	(ML/SM2320B)	Alkalinity	175	mg/l	2.0	1
	06/17/99		(ML/SM1040)	Anion Sum	7.70	meq/l	0.0010	1
06/10/99	06/16/99	97735	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
06/15/99	06/15/99	97613	(ML/EPA 200.7)	Calcium, Total, ICAP	89.8	mg/l	1.0	1
	06/16/99		(ML/SM1040)	Cation Sum	8.26	meq/l	0.0010	1
	06/08/99	97341	(ML/EPA 300)	Chloride	78.2	mg/l	2.0	2
	06/16/99	97711	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	06/17/99		(ML/SM2320B)	Carbonate as CO3, Calculated	0.219	mg/l	0.0010	1
06/10/99	06/11/99	97575	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	36	ug/l	10	1
	06/07/99	97221	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	06/10/99	97430	(ML/S2510B)	Specific Conductance	790	umho/cm	4.0	1
06/10/99	06/11/99	97577	(EPA/ML 200.8)	Iron, Total, ICAP/MS	430	ug/l	100	1
	06/17/99		(ML/SM2320B)	Bicarbonate as HCO3,calculated	213	mg/l	0.0010	1
06/15/99	06/15/99	97616	(ML/EPA 200.7)	Potassium, Total, ICAP	2.0	mg/l	1.0	1
06/15/99	06/15/99	97620	(ML/EPA 200.7)	Magnesium, Total, ICAP	30.5	mg/l	0.10	1
06/15/99	06/15/99	97623	(ML/EPA 200.7)	Sodium, Total, ICAP	27.8	mg/l	1.0	1
	06/08/99	97342	(ML/EPA 300.0)	Nitrate-N by IC	ND	mg/l	0.20	2
06/10/99	06/11/99	97578	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	06/08/99	97348	(ML/SM 4500HB)	Lab pH	7.2	Units	0.0010	1
	06/08/99	97343	(ML/EPA 300.0)	Sulfate	95.6	mg/l	4.0	2
	06/12/99	97652	(ML/SM2540C)	Total Dissolved Solid (TDS)	470	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	06/10/99	97624	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1

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Laboratory
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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	06/10/99	97624	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	06/10/99	97624	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	06/10/99	97624	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	06/10/99	97624	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	1.5	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	06/10/99	97624	(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	104	% Rec		
			(Surrogate)	Toluene-d8	103	% Rec		

MW-992-018 (990607138) Sampled on 06/07/99

	06/16/99	97787	(ML/SM2320B)	Alkalinity	174	mg/l	2.0	1
	06/22/99		(ML/SM1040)	Anion Sum	5.61	meq/l	0.0010	1
06/10/99	06/16/99	97735	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
06/15/99	06/15/99	97613	(ML/EPA 200.7)	Calcium, Total, ICAP	61.4	mg/l	1.0	1
	06/16/99		(ML/SM1040)	Cation Sum	5.57	meq/l	0.0010	1
	06/08/99	97341	(ML/EPA 300)	Chloride	20.6	mg/l	1.0	1
	06/16/99	97711	(MOD/EPA 300)	Perchlorate	10	ug/l	4.0	1
	06/17/99		(ML/SM2320B)	Carbonate as CO3, Calculated	0.218	mg/l	0.0010	1
06/10/99	06/11/99	97575	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	06/07/99	97221	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	06/10/99	97430	(ML/S2510B)	Specific Conductance	515	umho/cm	4.0	1
06/10/99	06/11/99	97577	(EPA/ML 200.8)	Iron, Total, ICAP/MS	ND	ug/l	100	1
	06/17/99		(ML/SM2320B)	Bicarbonate as HCO3,calculated	212	mg/l	0.0010	1
06/15/99	06/15/99	97616	(ML/EPA 200.7)	Potassium, Total, ICAP	2.6	mg/l	1.0	1
06/15/99	06/15/99	97620	(ML/EPA 200.7)	Magnesium, Total, ICAP	20.6	mg/l	0.10	1
06/15/99	06/15/99	97623	(ML/EPA 200.7)	Sodium, Total, ICAP	16.9	mg/l	1.0	1
	06/08/99	97342	(ML/EPA 300.0)	Nitrate-N by IC	5.17	mg/l	0.10	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
06/10/99	06/11/99	97578	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	06/08/99	97348	(ML/SM 4500HB)	Lab pH	7.2	Units	0.0010	1
	06/08/99	97343	(ML/EPA 300.0)	Sulfate	56.8	mg/l	2.0	1
	06/12/99	97652	(ML/SM2540C)	Total Dissolved Solid (TDS)	300	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	06/10/99	97624	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	06/10/99	97624	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	06/10/99	97624	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1

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Laboratory Report #54920

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	06/10/99	97624	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Trichloroethylene (TCE)	1.1	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	06/10/99	97624	(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	104	% Rec		
			(Surrogate)	Toluene-d8	104	% Rec		

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-992-019 (990607139) Sampled on 06/07/99								
06/10/99	06/16/99	97735	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	06/16/99	97711	(MOD/EPA 300)	Perchlorate	11	ug/l	4.0	1
06/10/99	06/11/99	97575	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	06/07/99	97221	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
06/10/99	06/11/99	97578	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
			Regulated VOCs plus Lists 1&3					
	06/10/99	97624	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	06/10/99	97624	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	06/10/99	97624	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	06/10/99	97624	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Trichloroethylene (TCE)	1.0	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	06/10/99	97624	(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	101	% Rec		

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Laboratory Report #54920

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
			(Surrogate)	Toluene-d8	100	% Rec		
MW-992-013 (990607140) Sampled on 06/07/99								
	06/16/99	97787	(ML/SM2320B)	Alkalinity	158	mg/l	2.0	1
	06/17/99		(ML/SM1040)	Anion Sum	4.20	meq/l	0.0010	1
06/10/99	06/16/99	97735	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
06/15/99	06/15/99	97613	(ML/EPA 200.7)	Calcium, Total, ICAP	45.7	mg/l	1.0	1
	06/16/99		(ML/SM1040)	Cation Sum	4.21	meq/l	0.0010	1
	06/08/99	97341	(ML/EPA 300)	Chloride	10.3	mg/l	1.0	1
	06/16/99	97711	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	06/17/99		(ML/SM2320B)	Carbonate as CO3, Calculated	0.158	mg/l	0.0010	1
06/10/99	06/11/99	97575	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	06/07/99	97221	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	06/10/99	97434	(ML/S2510B)	Specific Conductance	400	umho/cm	4.0	1
06/10/99	06/11/99	97577	(EPA/ML 200.8)	Iron, Total, ICAP/MS	ND	ug/l	100	1
	06/17/99		(ML/SM2320B)	Bicarbonate as HCO3,calculated	193	mg/l	0.0010	1
06/15/99	06/15/99	97616	(ML/EPA 200.7)	Potassium, Total, ICAP	2.9	mg/l	1.0	1
06/15/99	06/15/99	97620	(ML/EPA 200.7)	Magnesium, Total, ICAP	14.3	mg/l	0.10	1
06/15/99	06/15/99	97623	(ML/EPA 200.7)	Sodium, Total, ICAP	15.5	mg/l	1.0	1
	06/08/99	97342	(ML/EPA 300.0)	Nitrate-N by IC	1.83	mg/l	0.10	1
06/10/99	06/11/99	97578	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	06/08/99	97348	(ML/SM 4500HB)	Lab pH	7.1	Units	0.0010	1
	06/08/99	97343	(ML/EPA 300.0)	Sulfate	29.9	mg/l	2.0	1
	06/12/99	97652	(ML/SM2540C)	Total Dissolved Solid (TDS)	240	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	06/10/99	97624	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	06/10/99	97624	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	06/10/99	97624	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	06/10/99	97624	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	06/10/99	97624	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	06/10/99	97624	(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	98	% Rec		
			(Surrogate)	Toluene-d8	100	% Rec		

MW-992-016 (990607141) Sampled on 06/07/99

	06/16/99	97787	(ML/SM2320B)	Alkalinity	131	mg/l	2.0	1
	06/17/99		(ML/SM1040)	Anion Sum	3.64	meq/l	0.0010	1
06/10/99	06/16/99	97735	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
06/15/99	06/15/99	97613	(ML/EPA 200.7)	Calcium, Total, ICAP	38.3	mg/l	1.0	1
	06/16/99		(ML/SM1040)	Cation Sum	3.67	meq/l	0.0010	1
	06/08/99	97341	(ML/EPA 300)	Chloride	11.1	mg/l	1.0	1
	06/16/99	97711	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	06/17/99		(ML/SM2320B)	Carbonate as CO3, Calculated	0.207	mg/l	0.0010	1
06/10/99	06/11/99	97575	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	06/07/99	97221	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	06/10/99	97434	(ML/S2510B)	Specific Conductance	345	umho/cm	4.0	1
06/10/99	06/11/99	97577	(EPA/ML 200.8)	Iron, Total, ICAP/MS	ND	ug/l	100	1
	06/17/99		(ML/SM2320B)	Bicarbonate as HCO3,calculated	160	mg/l	0.0010	1
06/15/99	06/15/99	97616	(ML/EPA 200.7)	Potassium, Total, ICAP	2.3	mg/l	1.0	1
06/15/99	06/15/99	97620	(ML/EPA 200.7)	Magnesium, Total, ICAP	12.8	mg/l	0.10	1
06/15/99	06/15/99	97623	(ML/EPA 200.7)	Sodium, Total, ICAP	14.7	mg/l	1.0	1

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Laboratory Report #54920

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	06/08/99	97342	(ML/EPA 300.0)	Nitrate-N by IC	1.11	mg/l	0.10	1
06/10/99	06/11/99	97578	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	06/08/99	97348	(ML/SM 4500HB)	Lab pH	7.3	Units	0.0010	1
	06/08/99	97343	(ML/EPA 300.0)	Sulfate	30.3	mg/l	2.0	1
	06/12/99	97652	(ML/SM2540C)	Total Dissolved Solid (TDS)	200	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	06/10/99	97624	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	06/10/99	97624	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	06/10/99	97624	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Laboratory
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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	06/10/99	97624	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	06/10/99	97624	(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	100	% Rec		

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Laboratory QC Report #54920

Foster Wheeler Environmental, Inc

QC Batch #97221 Hexavalent chromium (Cr VI)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0607137		(0.00 - 0.00)	
LCS1	Hexavalent chromium (Cr VI)	0.050	0.052	104.0	(78.00 - 118.00)	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.051	102.0	(78.00 - 118.00)	1.9
MBLK	Hexavalent chromium (Cr VI)	ND				
MS	Hexavalent chromium (Cr VI)	0.050	0.050	100.0	(80.00 - 120.00)	
MSD	Hexavalent chromium (Cr VI)	0.050	0.049	98.0	(80.00 - 120.00)	2.0

QC Batch #97341 Chloride

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0607138		(0.00 - 0.00)	
LCS1	Chloride	25	25.0	100.0	(90.00 - 110.00)	
LCS2	Chloride	25	25.0	100.0	(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 #97342 Nitrate-N by IC

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0607138		(0.00 - 0.00)	
LCS1	Nitrate-N by IC	2.5	2.53	101.2	(94.00 - 106.00)	
LCS2	Nitrate-N by IC	2.5	2.54	101.6	(94.00 - 106.00)	0.39
MBLK	Nitrate-N by IC	ND				
MS	Nitrate-N by IC	2.5	2.46	98.4	(85.00 - 118.00)	
MSD	Nitrate-N by IC	2.5	2.48	99.2	(85.00 - 118.00)	0.81

QC Batch #97343 Sulfate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0607138		(0.00 - 0.00)	
LCS1	Sulfate	50	50.0	100.0	(95.00 - 104.00)	
LCS2	Sulfate	50	49.7	99.4	(95.00 - 104.00)	0.60

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Criteria for MS and DUP are advisory only and not applicable for ICR monitoring.

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MBLK	Sulfate	ND				
MS	Sulfate	50	52.6	105.2	(97.00 - 112.00)	
MSD	Sulfate	50	52.7	105.4	(97.00 - 112.00)	0.19

QC Batch #97348 Lab pH

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	lab # 99	0603164		(0.00 - 0.00)	

QC Batch #97430 Specific Conductance

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 99	0607138		(0.00 - 0.00)	

QC Batch #97434 Specific Conductance

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 99	0609207		(0.00 - 0.00)	

QC Batch #97575 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0603162		(0.00 - 0.00)	
LCS1	Chromium, Total, ICAP/MS	100	99	99.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	105	105.0	(85.00 - 115.00)	5.9
MBLK	Chromium, Total, ICAP/MS	ND				
MS	Chromium, Total, ICAP/MS	100	103	103.0	(77.00 - 119.00)	
MSD	Chromium, Total, ICAP/MS	100	96	96.0	(77.00 - 119.00)	7.0

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QC Batch #97577 Iron, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0603162		(0.00 - 0.00)	
LCS1	Iron, Total, ICAP/MS	500	509	101.8	(85.00 - 115.00)	
LCS2	Iron, Total, ICAP/MS	500	535	107.0	(85.00 - 115.00)	5.0
MBLK	Iron, Total, ICAP/MS	ND				
MS	Iron, Total, ICAP/MS	500	520	104.0	(70.00 - 130.00)	
MSD	Iron, Total, ICAP/MS	500	481	96.2	(70.00 - 130.00)	7.8

QC Batch #97578 Lead, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0603162		(0.00 - 0.00)	
LCS1	Lead, Total, ICAP/MS	20.0	21.5	107.5	(87.00 - 108.00)	
LCS2	Lead, Total, ICAP/MS	20.0	21.3	106.5	(87.00 - 108.00)	0.93
MBLK	Lead, Total, ICAP/MS	ND				
MS	Lead, Total, ICAP/MS	20.0	21.6	108.0	(75.00 - 119.00)	
MSD	Lead, Total, ICAP/MS	20.0	21.5	107.5	(75.00 - 119.00)	0.46

QC Batch #97613 Calcium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0602124		(0.00 - 0.00)	
LCS1	Calcium, Total, ICAP	50	51.8	103.6	(85.00 - 115.00)	
LCS2	Calcium, Total, ICAP	50	52.4	104.8	(85.00 - 115.00)	1.2
MBLK	Calcium, Total, ICAP	ND				
MS	Calcium, Total, ICAP	50	50.6	101.2	(70.00 - 130.00)	
MSD	Calcium, Total, ICAP	50	49.2	98.4	(70.00 - 130.00)	2.8

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QC Batch #97616 Potassium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0602124		(0.00 - 0.00)	
LCS1	Potassium, Total, ICAP	20	20.6	103.0	(80.00 - 110.00)	
LCS2	Potassium, Total, ICAP	20	21.1	105.5	(80.00 - 110.00)	2.4
MBLK	Potassium, Total, ICAP	ND				
MS	Potassium, Total, ICAP	20	20.6	103.0	(80.00 - 120.00)	
MSD	Potassium, Total, ICAP	20	20.1	100.5	(80.00 - 120.00)	2.5

QC Batch #97620 Magnesium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0602124		(0.00 - 0.00)	
LCS1	Magnesium, Total, ICAP	20	20.8	104.0	(97.00 - 115.00)	
LCS2	Magnesium, Total, ICAP	20	21.1	105.5	(97.00 - 115.00)	1.4
MBLK	Magnesium, Total, ICAP	ND				
MS	Magnesium, Total, ICAP	20	20.5	102.5	(74.00 - 130.00)	
MSD	Magnesium, Total, ICAP	20	19.9	99.5	(74.00 - 130.00)	3.0

QC Batch #97623 Sodium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0602124		(0.00 - 0.00)	
LCS1	Sodium, Total, ICAP	50	52.6	105.2	(94.00 - 112.00)	
LCS2	Sodium, Total, ICAP	50	53.2	106.4	(94.00 - 112.00)	1.1
MBLK	Sodium, Total, ICAP	ND				
MS	Sodium, Total, ICAP	50	51.7	103.4	(82.00 - 114.00)	
MSD	Sodium, Total, ICAP	50	50.3	100.6	(82.00 - 114.00)	2.7

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Foster Wheeler Environmental, Inc
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QC Batch #97624 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	4	4.13	103.2	(76.00 - 116.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	3.90	97.5	(72.00 - 117.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	3.98	99.5	(71.00 - 116.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	4.02	100.5	(71.00 - 125.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	4.07	101.8	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MS	1,1-Dichloroethylene	4	4.67	116.8	(70.00 - 130.00)	
MSD	1,1-Dichloroethylene	4	4.95	123.8	(70.00 - 130.00)	5.8
MBLK	1,1-Dichloropropene	ND				
MBLK	1,2,3-Trichlorobenzene	ND				
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	4	3.98	99.5	(76.00 - 114.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	4	4.06	101.5	(75.00 - 120.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	4	3.73	93.2	(77.00 - 122.00)	
MBLK	1,2-Dichloropropane	ND				
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	8	7.75	96.9	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
LCS1	p-Dichlorobenzene (1,4-DCB)	4	4.06	101.5	(77.00 - 113.00)	
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.

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Laboratory
QC Report
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Foster Wheeler Environmental, Inc
(continued)

MBLK	p-Chlorotoluene	ND				
MBLK	4-Methyl-2-Pentanone (MIBK)	ND				
MS	Spiked sample	Lab # 99 0603162			(0.00 - 0.00)	
LCS1	Benzene	4	4.08	102.0	(76.00 - 122.00)	
MBLK	Benzene	ND				
MS	Benzene	4	3.89	97.2	(70.00 - 130.00)	
MSD	Benzene	4	3.92	98.0	(70.00 - 130.00)	0.77
MBLK	Bromobenzene	ND				
MBLK	Bromomethane (Methyl Bromide)	ND				
LCS1	cis-1,2-Dichloroethylene	4	4.00	100.0	(75.00 - 124.00)	
MBLK	cis-1,2-Dichloroethylene	ND				
LCS1	Chlorobenzene	4	3.89	97.2	(70.00 - 117.00)	
MBLK	Chlorobenzene	ND				
MS	Chlorobenzene	4	4.00	100.0	(70.00 - 130.00)	
MSD	Chlorobenzene	4	4.02	100.5	(70.00 - 130.00)	0.50
LCS1	Carbon Tetrachloride	4	4.08	102.0	(70.00 - 130.00)	
MBLK	Carbon Tetrachloride	ND				
MBLK	cis-1,3-Dichloropropene	ND				
LCS1	Bromoform	4	2.93	73.2	(70.00 - 130.00)	
MBLK	Bromoform	ND				
LCS1	Chloroform (Trichloromethane)	4	3.95	98.8	(74.00 - 124.00)	
MBLK	Chloroform (Trichloromethane)	ND				
MBLK	Bromochloromethane	ND				
MBLK	Chloroethane	ND				
MBLK	Chloromethane(Methyl Chloride)	ND				
LCS1	Chlorodibromomethane	4	3.55	88.8	(70.00 - 130.00)	
MBLK	Chlorodibromomethane	ND				
MBLK	Dibromomethane	ND				
LCS1	Bromodichloromethane	4	3.90	97.5	(70.00 - 116.00)	
MBLK	Bromodichloromethane	ND				
LCS1	Dichloromethane	4	3.10	77.5	(70.00 - 130.00)	
MBLK	Dichloromethane	ND				
LCS1	Ethyl benzene	4	3.98	99.5	(70.00 - 130.00)	
MBLK	Ethyl benzene	ND				
MBLK	Dichlorodifluoromethane	ND				
LCS1	Fluorotrichloromethane-Freon11	2	2.42	121.0	(71.00 - 118.00)	
MBLK	Fluorotrichloromethane-Freon11	ND				

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Foster Wheeler Environmental, Inc
(continued)

MBLK	Hexachlorobutadiene	ND				
MBLK	Isopropylbenzene	ND				
MBLK	m-Dichlorobenzene (1,3-DCB)	ND				
LCS1	m,p-Xylenes	8	8.00	100.0	(74.00 - 116.00)	
MBLK	m,p-Xylenes	ND				
MBLK	Naphthalene	ND				
MBLK	n-Butylbenzene	ND				
MBLK	n-Propylbenzene	ND				
LCS1	o-Xylene	4	4.06	101.5	(72.00 - 118.00)	
MBLK	o-Xylene	ND				
LCS1	o-Dichlorobenzene (1,2-DCB)	4	3.88	97.0	(76.00 - 114.00)	
MBLK	o-Dichlorobenzene (1,2-DCB)	ND				
LCS1	Tetrachloroethylene (PCE)	4	4.02	100.5	(71.00 - 115.00)	
MBLK	Tetrachloroethylene (PCE)	ND				
MBLK	p-Isopropyltoluene	ND				
MBLK	sec-Butylbenzene	ND				
LCS1	Styrene	4	4.04	101.0	(70.00 - 130.00)	
MBLK	Styrene	ND				
LCS1	1,2-dichloroethane-d4	100	105	105.0	(80.00 - 127.00)	
MBLK	1,2-dichloroethane-d4	100	110	110.0		
MS	1,2-dichloroethane-d4	100	105	105.0	(80.00 - 127.00)	
MSD	1,2-dichloroethane-d4	100	111	111.0	(80.00 - 127.00)	5.6
LCS1	Toluene-d8	100	101	101.0	(91.00 - 107.00)	
MBLK	Toluene-d8	100	102	102.0		
MS	Toluene-d8	100	106	106.0	(91.00 - 107.00)	
MSD	Toluene-d8	100	105	105.0	(91.00 - 107.00)	0.95
LCS1	4-Bromofluorobenzene	100	101	101.0	(82.00 - 119.00)	
MBLK	4-Bromofluorobenzene	100	97.5	97.5		
MS	4-Bromofluorobenzene	100	101	101.0	(82.00 - 119.00)	
MSD	4-Bromofluorobenzene	100	105	105.0	(82.00 - 119.00)	3.9
LCS1	trans-1,2-Dichloroethylene	4	3.98	99.5	(70.00 - 130.00)	
MBLK	trans-1,2-Dichloroethylene	ND				
MBLK	tert-Butylbenzene	ND				
LCS1	Trichloroethylene (TCE)	4	4.00	100.0	(72.00 - 117.00)	
MBLK	Trichloroethylene (TCE)	ND				
MS	Trichloroethylene (TCE)	4	2.83	70.8	(70.00 - 130.00)	
MSD	Trichloroethylene (TCE)	4	3.21	80.2	(70.00 - 130.00)	13

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Foster Wheeler Environmental, Inc
(continued)

LCS1	Trichlorotrifluoroethane(Freon	2	1.72	86.0	(70.00 - 130.00)	
MBLK	Trichlorotrifluoroethane(Freon	ND				
MBLK	trans-1,3-Dichloropropene	ND				
LCS1	Toluene	4	4.10	102.5	(74.00 - 117.00)	
MBLK	Toluene	ND				
MS	Toluene	4	4.06	101.5	(70.00 - 130.00)	
MSD	Toluene	4	4.06	101.5	(70.00 - 130.00)	0.00
LCS1	Vinyl chloride (VC)	2	2.09	104.5	(70.00 - 130.00)	
MBLK	Vinyl chloride (VC)	ND				

QC Batch #97652 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 99	0607091		(0.00 - 0.00)	
LCS1	Total Dissolved Solid (TDS)	175	170	97.1	(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 #97711 Perchlorate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0603162		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	20	100.0	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	20.8	104.0	(90.00 - 110.00)	3.9
MBLK	Perchlorate	ND				

QC Batch #97735 Arsenic, Total, GF

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0603162		(0.00 - 0.00)	
LCS1	Arsenic, Total, GF	0.020	0.0208	104.0	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.0207	103.5	(85.00 - 115.00)	0.48
MBLK	Arsenic, Total, GF	ND				
MS	Arsenic, Total, GF	0.020	0.0222	111.0	(70.00 - 130.00)	

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Laboratory
QC Report
#54920

Foster Wheeler Environmental, Inc
(continued)

MSD	Arsenic, Total, GF	0.020	0.0226	113.0	(70.00 - 130.00)	1.8

QC Batch #97787 Alkalinity

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0607137		(0.00 - 0.00)	
LCS1	Alkalinity	96.2	98.2	102.1	(96.00 - 107.00)	
LCS2	Alkalinity	96.2	98.3	102.2	(96.00 - 107.00)	0.10
MBLK	Alkalinity	ND				
MS	Alkalinity	96.2	90.4	94.0	(80.00 - 120.00)	
MSD	Alkalinity	96.2	90.9	94.5	(80.00 - 120.00)	0.55

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MONTGOMERY WATSON LABORATORIES

Quality Environmental Analysis

A division of Montgomery Watson Americas, Inc.

June 28, 1999

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

Attention: Mark Cutler

Re: Report # 54959 (MW-992-017, MW-992-001, MW-992-111)

Sampled: 6/08/99

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)
Fluorotrichloromethane (Freon 11): MWL internal control limits based on recent control charts are 71-118%. The LCS recovered at 121%. Method and QAPP limits are 70-130%. The LCS is within method control limits. Results are reported without qualification.

Samples requiring dilution (with increased MRL's):
None

Method blanks with compounds detected:
None

Comments:
None

TIC's:
None

Method Variance:
None

Other Comments:
None

Sincerely,

Debbie Frank
Project Manager

cc: Judy Novelly (JPL)

Laboratory
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Pasadena, California 91101
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Fax: 626 568 6324

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

Northern California Service Center
1340 Treat Boulevard - Suite 300
Walnut Creek, California 94596
Tel: 925 274 2322
Fax: 925 945 1760

Southern California Service Center
30 Corporate Park - Suite 302
Irvine, California 92606
Tel: 949 222 1845
Fax: 949 222 1849

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#007618-0006
Group#: 54959
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

The following samples were received from you on 06/08/99. 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
990608123	MW-992-017		Water				06/08/99
		@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	
990608124	MW-992-001		Water				06/08/99
		@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	
990608125	MW-992-111		Water				06/08/99
		@EBASVOA					

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

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

Customer Code: ENSERCH
PO#: Sub PO#007618-0006
Group#: 54959
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

Test Acronym Description

Test Acronym	Description
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)

54959 TEMP: 6-10 REG ICE OK

NUMBER 3478

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE OF

PROJECT: JPL

OFS NO.: 1572.0276

PROJECT ADDRESS: 4800 Oak Grove Drive Pasadena, CA

SAMPLER (Name): J. Brenner

SAMPLER (Signature):

LABORATORY: Montgomery Watson labs

REPORTS TO BE SENT TO: Mr. Mark Cutter

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 Metals (6010/7000)	Anions + TDS	Cr^{6+}	ClO_4	QC for Cr^{6+}				
MW-992-017	0924	6/8/99	6	2x40ml, 1x250ml 1x500ml, 2x125ml	X			X	X	X	X	X	X				
MW-992-001	1030	6/8/99	6	↓	X			X	X	X	X	X					
MW-992-111	1000	6/8/99	2	2x40ml	X			X									

LABORATORY INSTRUCTIONS/COMMENTS

Level IV QA/QC

RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)	RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)
[signature]	[illegible]	[signature]			
COMPANY	TIME	COMPANY	COMPANY	TIME	COMPANY
[illegible]	14:42	[illegible]			

F-2

MONTGOMERY WATSON COOLER RECEIPT FORM

PROJECT: ENSERCH DATE RECEIVED: 6-8-99

Use back of form to note check-in problems and describe action(s) regarding the resolution(s) of problems.

A. PRELIMINARY EXAMINATION
Date Cooler opened: 6-8-99
By (print) MARTIN L. DE MESA (sign)

1. Did cooler come with shipping slip (air bill, etc.)? Yes No
   If yes, attach and enter carrier and air bill number here: DEL BY CLIENT
2. Were custody seals on outside of cooler? (Yes) No
   If yes, how many and where: 2 OUTSIDE COOLER
   If yes, enter the following: seal date: 6-8-99 seal name: I.M.
3. Were custody seals unbroken and intact at delivery? (Yes) No
4. Were custody papers sealed in bag and 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 and acknowledge receipt: MLD date: 6-8-99

B. LOGIN PHASE
Date samples were logged in: 6-8-99
By (print) M. DE MESA (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 and in good condition? (Yes) No
13. Were all bottle labels complete (ID, date, sign, preservative)?
14. Did all bottle labels agree with custody papers? If no, list on back. (Yes) No
15. Were correct containers used 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? If no, list by sample ID on back. (Yes) No
19. Was Client Services informed of problems? Yes No N/A

Report Summary of positive results, PR54959

		Result	MDL	UNITS
Analyzed	990608123 MW-992-017			
06/16/99	Alkalinity	166	2.000	MGL
06/17/99	Anion Sum	5.11	.001	MEQL
06/17/99	Bicarbonate as HCO3,calculated	202	.001	MGL
06/15/99	Calcium, Total, ICAP	55.0	1.000	MGL
06/17/99	Carbonate as CO3, Calculated	0.415	.001	MGL
06/16/99	Cation Sum	5.19	.001	MEQL
06/09/99	Chloride	20.9	1.000	MGL
06/11/99	Iron, Total, ICAP/MS	170	******	UGL
06/09/99	Lab pH	7.5	.001	UNIT
06/15/99	Magnesium, Total, ICAP	17.6	.100	MGL
06/09/99	Nitrate-N by IC	1.75	.100	MGL
06/15/99	Potassium, Total, ICAP	3.1	1.000	MGL
06/15/99	Sodium, Total, ICAP	20.9	1.000	MGL
06/10/99	Specific Conductance	485	4.000	UMHO
06/09/99	Sulfate	51.5	2.000	MGL
06/12/99	Total Dissolved Solid (TDS)	290	10.000	MGL
Analyzed	990608124 MW-992-001			
06/16/99	Alkalinity	169	2.000	MGL
06/17/99	Anion Sum	4.60	.001	MEQL
06/17/99	Bicarbonate as HCO3,calculated	206	.001	MGL
06/15/99	Calcium, Total, ICAP	46.0	1.000	MGL
06/17/99	Carbonate as CO3, Calculated	0.845	.001	MGL
06/16/99	Cation Sum	4.67	.001	MEQL
06/09/99	Chloride	15.5	1.000	MGL
06/09/99	Lab pH	7.8	.001	UNIT
06/15/99	Magnesium, Total, ICAP	14.9	.100	MGL
06/09/99	Nitrate-N by IC	1.49	.100	MGL
06/15/99	Potassium, Total, ICAP	2.9	1.000	MGL
06/15/99	Sodium, Total, ICAP	24.5	1.000	MGL
06/10/99	Specific Conductance	445	4.000	UMHO
06/09/99	Sulfate	32.5	2.000	MGL
06/12/99	Total Dissolved Solid (TDS)	270	10.000	MGL
Analyzed	990608125 MW-992-111			

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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
JUN 28 1999

DEB* Debbie Frank

Report#: 54959
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 #54959

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

Samples Received
08-jun-1999 15:32:13

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-992-017 (990608123) Sampled on 06/08/99								
	06/16/99	97787	(ML/SM2320B)	Alkalinity	166	mg/l	2.0	1
	06/17/99		(ML/SM1040)	Anion Sum	5.11	meq/l	0.0010	1
06/10/99	06/16/99	97735	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
06/15/99	06/15/99	97613	(ML/EPA 200.7)	Calcium, Total, ICAP	55.0	mg/l	1.0	1
	06/16/99		(ML/SM1040)	Cation Sum	5.19	meq/l	0.0010	1
	06/09/99	97373	(ML/EPA 300)	Chloride	20.9	mg/l	1.0	1
	06/16/99	97711	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	06/17/99		(ML/SM2320B)	Carbonate as CO3, Calculated	0.415	mg/l	0.0010	1
06/10/99	06/11/99	97575	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	06/08/99	97285	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	06/10/99	97434	(ML/S2510B)	Specific Conductance	485	umho/cm	4.0	1
06/10/99	06/11/99	97577	(EPA/ML 200.8)	Iron, Total, ICAP/MS	170	ug/l	100	1
	06/17/99		(ML/SM2320B)	Bicarbonate as HCO3,calculated	202	mg/l	0.0010	1
06/15/99	06/15/99	97616	(ML/EPA 200.7)	Potassium, Total, ICAP	3.1	mg/l	1.0	1
06/15/99	06/15/99	97620	(ML/EPA 200.7)	Magnesium, Total, ICAP	17.6	mg/l	0.10	1
06/15/99	06/15/99	97623	(ML/EPA 200.7)	Sodium, Total, ICAP	20.9	mg/l	1.0	1
	06/09/99	97375	(ML/EPA 300.0)	Nitrate-N by IC	1.75	mg/l	0.10	1
06/10/99	06/11/99	97578	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	06/09/99	97437	(ML/SM 4500HB)	Lab pH	7.5	Units	0.0010	1
	06/09/99	97376	(ML/EPA 300.0)	Sulfate	51.5	mg/l	2.0	1
	06/12/99	97652	(ML/SM2540C)	Total Dissolved Solid (TDS)	290	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	06/10/99	97624	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1

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Laboratory Report #54959

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	06/10/99	97624	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	06/10/99	97624	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	06/10/99	97624	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	06/10/99	97624	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	06/10/99	97624	(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	98	% Rec		
			(Surrogate)	Toluene-d8	104	% Rec		

MW-992-001 (990608124) Sampled on 06/08/99

	06/16/99	97787	(ML/SM2320B)	Alkalinity	169	mg/l	2.0	1
	06/17/99		(ML/SM1040)	Anion Sum	4.60	meq/l	0.0010	1
06/10/99	06/16/99	97735	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
06/15/99	06/15/99	97613	(ML/EPA 200.7)	Calcium, Total, ICAP	46.0	mg/l	1.0	1
	06/16/99		(ML/SM1040)	Cation Sum	4.67	meq/l	0.0010	1
	06/09/99	97373	(ML/EPA 300)	Chloride	15.5	mg/l	1.0	1
	06/16/99	97711	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	06/17/99		(ML/SM2320B)	Carbonate as CO3, Calculated	0.845	mg/l	0.0010	1
06/10/99	06/11/99	97575	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	06/08/99	97285	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	06/10/99	97434	(ML/S2510B)	Specific Conductance	445	umho/cm	4.0	1
06/10/99	06/11/99	97577	(EPA/ML 200.8)	Iron, Total, ICAP/MS	ND	ug/l	100	1
	06/17/99		(ML/SM2320B)	Bicarbonate as HCO3,calculated	206	mg/l	0.0010	1
06/15/99	06/15/99	97616	(ML/EPA 200.7)	Potassium, Total, ICAP	2.9	mg/l	1.0	1

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Laboratory Report #54959

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
06/15/99	06/15/99	97620	(ML/EPA 200.7)	Magnesium, Total, ICAP	14.9	mg/l	0.10	1
06/15/99	06/15/99	97623	(ML/EPA 200.7)	Sodium, Total, ICAP	24.5	mg/l	1.0	1
	06/09/99	97375	(ML/EPA 300.0)	Nitrate-N by IC	1.49	mg/l	0.10	1
06/10/99	06/11/99	97578	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	06/09/99	97437	(ML/SM 4500HB)	Lab pH	7.8	Units	0.0010	1
	06/09/99	97376	(ML/EPA 300.0)	Sulfate	32.5	mg/l	2.0	1
	06/12/99	97652	(ML/SM2540C)	Total Dissolved Solid (TDS)	270	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	06/10/99	97624	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	06/10/99	97624	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	06/10/99	97624	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1

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Laboratory
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#54959

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	06/10/99	97624	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	06/10/99	97624	(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	92	% Rec		

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
			(Surrogate)	Toluene-d8	99	% Rec		

MW-992-111 (990608125) Sampled on 06/08/99

Regulated VOCs plus Lists 1&3

06/10/99	97624	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
06/10/99	97624	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
06/10/99	97624	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
06/10/99	97624	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
06/10/99	97624	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
06/10/99	97624	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
06/10/99	97624	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
06/10/99	97624	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
06/10/99	97624	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
06/10/99	97624	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
06/10/99	97624	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
06/10/99	97624	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
06/10/99	97624	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
06/10/99	97624	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
06/10/99	97624	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
06/10/99	97624	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
06/10/99	97624	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
06/10/99	97624	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
06/10/99	97624	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
06/10/99	97624	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
06/10/99	97624	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
06/10/99	97624	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
06/10/99	97624	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
06/10/99	97624	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
06/10/99	97624	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
06/10/99	97624	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
06/10/99	97624	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
06/10/99	97624	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
06/10/99	97624	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
06/10/99	97624	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
06/10/99	97624	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1

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Laboratory
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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	06/10/99	97624	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	06/10/99	97624	(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	95	% Rec		
			(Surrogate)	Toluene-d8	102	% Rec		

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Laboratory QC Report #54959

Foster Wheeler Environmental, Inc

QC Batch #97285 Hexavalent chromium (Cr VI)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0608123		(0.00 - 0.00)	
LCS1	Hexavalent chromium (Cr VI)	0.050	0.050	100.0	(78.00 - 118.00)	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.050	100.0	(78.00 - 118.00)	0.00
MBLK	Hexavalent chromium (Cr VI)	ND				
MS	Hexavalent chromium (Cr VI)	0.050	0.051	102.0	(80.00 - 120.00)	
MSD	Hexavalent chromium (Cr VI)	0.050	0.051	102.0	(80.00 - 120.00)	0.00

QC Batch #97373 Chloride

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0608124		(0.00 - 0.00)	
LCS1	Chloride	25	24.7	98.8	(90.00 - 110.00)	
LCS2	Chloride	25	24.7	98.8	(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 #97375 Nitrate-N by IC

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0608124		(0.00 - 0.00)	
LCS1	Nitrate-N by IC	2.5	2.51	100.4	(94.00 - 106.00)	
LCS2	Nitrate-N by IC	2.5	2.52	100.8	(94.00 - 106.00)	0.40
MBLK	Nitrate-N by IC	ND				
MS	Nitrate-N by IC	2.5	2.54	101.6	(85.00 - 118.00)	
MSD	Nitrate-N by IC	2.5	2.54	101.6	(85.00 - 118.00)	0.00

QC Batch #97376 Sulfate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0608124		(0.00 - 0.00)	
LCS1	Sulfate	50	49.2	98.4	(95.00 - 104.00)	
LCS2	Sulfate	50	49.5	99.0	(95.00 - 104.00)	0.61

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MBLK	Sulfate	ND				
MS	Sulfate	50	52.3	104.6	(97.00 - 112.00)	
MSD	Sulfate	50	52.3	104.6	(97.00 - 112.00)	0.00

QC Batch #97434 Specific Conductance

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 99	0609207		(0.00 - 0.00)	

QC Batch #97437 Lab pH

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	lab # 99	0607115		(0.00 - 0.00)	

QC Batch #97575 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0603162		(0.00 - 0.00)	
LCS1	Chromium, Total, ICAP/MS	100	99	99.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	105	105.0	(85.00 - 115.00)	5.9
MBLK	Chromium, Total, ICAP/MS	ND				
MS	Chromium, Total, ICAP/MS	100	103	103.0	(77.00 - 119.00)	
MSD	Chromium, Total, ICAP/MS	100	96	96.0	(77.00 - 119.00)	7.0

QC Batch #97577 Iron, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0603162		(0.00 - 0.00)	
LCS1	Iron, Total, ICAP/MS	500	509	101.8	(85.00 - 115.00)	
LCS2	Iron, Total, ICAP/MS	500	535	107.0	(85.00 - 115.00)	5.0
MBLK	Iron, Total, ICAP/MS	ND				
MS	Iron, Total, ICAP/MS	500	520	104.0	(70.00 - 130.00)	
MSD	Iron, Total, ICAP/MS	500	481	96.2	(70.00 - 130.00)	7.8

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QC Batch #97578 Lead, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0603162		(0.00 - 0.00)	
LCS1	Lead, Total, ICAP/MS	20.0	21.5	107.5	(87.00 - 108.00)	
LCS2	Lead, Total, ICAP/MS	20.0	21.3	106.5	(87.00 - 108.00)	0.93
MBLK	Lead, Total, ICAP/MS	ND				
MS	Lead, Total, ICAP/MS	20.0	21.6	108.0	(75.00 - 119.00)	
MSD	Lead, Total, ICAP/MS	20.0	21.5	107.5	(75.00 - 119.00)	0.46

QC Batch #97613 Calcium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0602124		(0.00 - 0.00)	
LCS1	Calcium, Total, ICAP	50	51.8	103.6	(85.00 - 115.00)	
LCS2	Calcium, Total, ICAP	50	52.4	104.8	(85.00 - 115.00)	1.2
MBLK	Calcium, Total, ICAP	ND				
MS	Calcium, Total, ICAP	50	50.6	101.2	(70.00 - 130.00)	
MSD	Calcium, Total, ICAP	50	49.2	98.4	(70.00 - 130.00)	2.8

QC Batch #97616 Potassium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0602124		(0.00 - 0.00)	
LCS1	Potassium, Total, ICAP	20	20.6	103.0	(80.00 - 110.00)	
LCS2	Potassium, Total, ICAP	20	21.1	105.5	(80.00 - 110.00)	2.4
MBLK	Potassium, Total, ICAP	ND				
MS	Potassium, Total, ICAP	20	20.6	103.0	(80.00 - 120.00)	
MSD	Potassium, Total, ICAP	20	20.1	100.5	(80.00 - 120.00)	2.5

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QC Batch #97620 Magnesium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0602124		(0.00 - 0.00)	
LCS1	Magnesium, Total, ICAP	20	20.8	104.0	(97.00 - 115.00)	
LCS2	Magnesium, Total, ICAP	20	21.1	105.5	(97.00 - 115.00)	1.4
MBLK	Magnesium, Total, ICAP	ND				
MS	Magnesium, Total, ICAP	20	20.5	102.5	(74.00 - 130.00)	
MSD	Magnesium, Total, ICAP	20	19.9	99.5	(74.00 - 130.00)	3.0

QC Batch #97623 Sodium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0602124		(0.00 - 0.00)	
LCS1	Sodium, Total, ICAP	50	52.6	105.2	(94.00 - 112.00)	
LCS2	Sodium, Total, ICAP	50	53.2	106.4	(94.00 - 112.00)	1.1
MBLK	Sodium, Total, ICAP	ND				
MS	Sodium, Total, ICAP	50	51.7	103.4	(82.00 - 114.00)	
MSD	Sodium, Total, ICAP	50	50.3	100.6	(82.00 - 114.00)	2.7

QC Batch #97624 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	4	4.13	103.2	(76.00 - 116.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	3.90	97.5	(72.00 - 117.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	3.98	99.5	(71.00 - 116.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	4.02	100.5	(71.00 - 125.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	4.07	101.8	(70.00 - 130.00)	

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MBLK	1,1-Dichloroethylene	ND				
MS	1,1-Dichloroethylene	4	4.67	116.8	(70.00 - 130.00)	
MSD	1,1-Dichloroethylene	4	4.95	123.8	(70.00 - 130.00)	5.8
MBLK	1,1-Dichloropropene	ND				
MBLK	1,2,3-Trichlorobenzene	ND				
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	4	3.98	99.5	(76.00 - 114.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	4	4.06	101.5	(75.00 - 120.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	4	3.73	93.2	(77.00 - 122.00)	
MBLK	1,2-Dichloropropane	ND				
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	8	7.75	96.9	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
LCS1	p-Dichlorobenzene (1,4-DCB)	4	4.06	101.5	(77.00 - 113.00)	
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 # 99	0603162		(0.00 - 0.00)	
LCS1	Benzene	4	4.08	102.0	(76.00 - 122.00)	
MBLK	Benzene	ND				
MS	Benzene	4	3.89	97.2	(70.00 - 130.00)	
MSD	Benzene	4	3.92	98.0	(70.00 - 130.00)	0.77
MBLK	Bromobenzene	ND				
MBLK	Bromomethane (Methyl Bromide)	ND				
LCS1	cis-1,2-Dichloroethylene	4	4.00	100.0	(75.00 - 124.00)	
MBLK	cis-1,2-Dichloroethylene	ND				
LCS1	Chlorobenzene	4	3.89	97.2	(70.00 - 117.00)	
MBLK	Chlorobenzene	ND				
MS	Chlorobenzene	4	4.00	100.0	(70.00 - 130.00)	
MSD	Chlorobenzene	4	4.02	100.5	(70.00 - 130.00)	0.50

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LCS1	Carbon Tetrachloride	4	4.08	102.0	(70.00 - 130.00)
MBLK	Carbon Tetrachloride	ND			
MBLK	cis-1,3-Dichloropropene	ND			
LCS1	Bromoform	4	2.93	73.2	(70.00 - 130.00)
MBLK	Bromoform	ND			
LCS1	Chloroform (Trichloromethane)	4	3.95	98.8	(74.00 - 124.00)
MBLK	Chloroform (Trichloromethane)	ND			
MBLK	Bromochloromethane	ND			
MBLK	Chloroethane	ND			
MBLK	Chloromethane(Methyl Chloride)	ND			
LCS1	Chlorodibromomethane	4	3.55	88.8	(70.00 - 130.00)
MBLK	Chlorodibromomethane	ND			
MBLK	Dibromomethane	ND			
LCS1	Bromodichloromethane	4	3.90	97.5	(70.00 - 116.00)
MBLK	Bromodichloromethane	ND			
LCS1	Dichloromethane	4	3.10	77.5	(70.00 - 130.00)
MBLK	Dichloromethane	ND			
LCS1	Ethyl benzene	4	3.98	99.5	(70.00 - 130.00)
MBLK	Ethyl benzene	ND			
MBLK	Dichlorodifluoromethane	ND			
LCS1	Fluorotrichloromethane-Freon11	2	2.42	121.0	(71.00 - 118.00)
MBLK	Fluorotrichloromethane-Freon11	ND			
MBLK	Hexachlorobutadiene	ND			
MBLK	Isopropylbenzene	ND			
MBLK	m-Dichlorobenzene (1,3-DCB)	ND			
LCS1	m,p-Xylenes	8	8.00	100.0	(74.00 - 116.00)
MBLK	m,p-Xylenes	ND			
MBLK	Naphthalene	ND			
MBLK	n-Butylbenzene	ND			
MBLK	n-Propylbenzene	ND			
LCS1	o-Xylene	4	4.06	101.5	(72.00 - 118.00)
MBLK	o-Xylene	ND			
LCS1	o-Dichlorobenzene (1,2-DCB)	4	3.88	97.0	(76.00 - 114.00)
MBLK	o-Dichlorobenzene (1,2-DCB)	ND			
LCS1	Tetrachloroethylene (PCE)	4	4.02	100.5	(71.00 - 115.00)
MBLK	Tetrachloroethylene (PCE)	ND			
MBLK	p-Isopropyltoluene	ND			

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MBLK	sec-Butylbenzene	ND				
LCS1	Styrene	4	4.04	101.0	(70.00 - 130.00)	
MBLK	Styrene	ND				
LCS1	1,2-dichloroethane-d4	100	105	105.0	(80.00 - 127.00)	
MBLK	1,2-dichloroethane-d4	100	110	110.0		
MS	1,2-dichloroethane-d4	100	105	105.0	(80.00 - 127.00)	
MSD	1,2-dichloroethane-d4	100	111	111.0	(80.00 - 127.00)	5.6
LCS1	Toluene-d8	100	101	101.0	(91.00 - 107.00)	
MBLK	Toluene-d8	100	102	102.0		
MS	Toluene-d8	100	106	106.0	(91.00 - 107.00)	
MSD	Toluene-d8	100	105	105.0	(91.00 - 107.00)	0.95
LCS1	4-Bromofluorobenzene	100	101	101.0	(82.00 - 119.00)	
MBLK	4-Bromofluorobenzene	100	97.5	97.5		
MS	4-Bromofluorobenzene	100	101	101.0	(82.00 - 119.00)	
MSD	4-Bromofluorobenzene	100	105	105.0	(82.00 - 119.00)	3.9
LCS1	trans-1,2-Dichloroethylene	4	3.98	99.5	(70.00 - 130.00)	
MBLK	trans-1,2-Dichloroethylene	ND				
MBLK	tert-Butylbenzene	ND				
LCS1	Trichloroethylene (TCE)	4	4.00	100.0	(72.00 - 117.00)	
MBLK	Trichloroethylene (TCE)	ND				
MS	Trichloroethylene (TCE)	4	2.83	70.8	(70.00 - 130.00)	
MSD	Trichloroethylene (TCE)	4	3.21	80.2	(70.00 - 130.00)	13
LCS1	Trichlorotrifluoroethane(Freon	2	1.72	86.0	(70.00 - 130.00)	
MBLK	Trichlorotrifluoroethane(Freon	ND				
MBLK	trans-1,3-Dichloropropene	ND				
LCS1	Toluene	4	4.10	102.5	(74.00 - 117.00)	
MBLK	Toluene	ND				
MS	Toluene	4	4.06	101.5	(70.00 - 130.00)	
MSD	Toluene	4	4.06	101.5	(70.00 - 130.00)	0.00
LCS1	Vinyl chloride (VC)	2	2.09	104.5	(70.00 - 130.00)	
MBLK	Vinyl chloride (VC)	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
#54959

Foster Wheeler Environmental, Inc
(continued)

QC Batch #97652 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 99	0607091		(0.00 - 0.00)	
LCS1	Total Dissolved Solid (TDS)	175	170	97.1	(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 #97711 Perchlorate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0603162		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	20	100.0	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	20.8	104.0	(90.00 - 110.00)	3.9
MBLK	Perchlorate	ND				

QC Batch #97735 Arsenic, Total, GF

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0603162		(0.00 - 0.00)	
LCS1	Arsenic, Total, GF	0.020	0.0208	104.0	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.0207	103.5	(85.00 - 115.00)	0.48
MBLK	Arsenic, Total, GF	ND				
MS	Arsenic, Total, GF	0.020	0.0222	111.0	(70.00 - 130.00)	
MSD	Arsenic, Total, GF	0.020	0.0226	113.0	(70.00 - 130.00)	1.8

QC Batch #97787 Alkalinity

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0607137		(0.00 - 0.00)	
LCS1	Alkalinity	96.2	98.2	102.1	(96.00 - 107.00)	
LCS2	Alkalinity	96.2	98.3	102.2	(96.00 - 107.00)	0.10

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
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Laboratory
QC Report
#54959

Foster Wheeler Environmental, Inc
(continued)

MBLK	Alkalinity	ND				
MS	Alkalinity	96.2	90.4	94.0	(80.00 - 120.00)	
MSD	Alkalinity	96.2	90.9	94.5	(80.00 - 120.00)	0.55

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

Quality Environmental Analysis

A division of Montgomery Watson Americas, Inc.

June 24, 1999

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

Attention: Mark Cutler

Re: Report # 55012 (MW-992-112, MW-992-038)

Sampled: 6/09/99

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)
Fluorotrichloromethane (Freon 11): MWL internal control limits based on recent control charts are 71-118%. The LCS recovered at 121%. Method and QAPP limits are 70-130%. The LCS is within method control limits. Results are reported without qualification.

Samples requiring dilution (with increased MRL's):
None

Method blanks with compounds detected:
None

Comments:
Chloroform was detected in MW-992-112

TIC's:
None

Method Variance:
None

Other Comments:
A QC check on the ASTM type II water supplied for the equipment rinse did not contain Methylene Chloride, but did contain detectable levels of Chloroform at 1.3 ug/L. No Methylene Chloride or Chloroform was detected in the method blank QC. Chloroform concentrations detected in the field samples, up to and including the level detected in the rinse water, may be an artifact of the rinse water.
ASTM type II water does not have specifications for volatiles. Foster Wheeler Environmental Corporation may want to consider the use of 'volatile free' water, if the trace chloroform poses problems. The Stationary Blank, SB, which was purged at the time of preparation, did not contain either compound. Volatile free water, would be substantially more expensive, due to the need to purge the water and the difficulty of preparing it in large quantities.

Sincerely,

Debbie Frank
Project Manager

cc: Judy Novelly (JPL)

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

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

Northern California Service Center
1340 Treat Boulevard - Suite 300
Walnut Creek, California 94596
Tel: 925 274 2322
Fax: 925 945 1760

Southern California Service Center
30 Corporate Park - Suite 302
Irvine, California 92606
Tel: 949 222 1845
Fax: 949 222 1849

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#007618-0006
Group#: 55012
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

The following samples were received from you on 06/09/99. 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
990609262	MW-992-112	@EBASVOA	Water	06/09/99
990609263	MW-992-038	@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	Water	06/09/99

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

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

Customer Code: ENSERCH
PO#: Sub PO#007618-0006
Group#: 55012
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

Test Acronym Description

Test Acronym	Description
TDS	Total Dissolved Solid (TDS)

MONTGOMERY WATSON COOLER RECEIPT FORM

PROJECT: ENSOPCIT DATE RECEIVED: 6-9-99

Use back of form to note check-in problems and describe action(s) regarding the resolution(s) of problems.

A. PRELIMINARY EXAMINATION
Date Cooler opened: 6-9-99
By (print) Mike Chiang (sign) [signature]

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

2. Were custody seals on outside of cooler? **Yes** No
   If yes, how many and where: 2 LID of COOLER
   If yes, enter the following: seal date: 6/9/99 seal name: J.B

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

4. Were custody papers sealed in bag and 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 and acknowledge receipt: _____ date: _____

B. LOGIN 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 and in good condition? **Yes** No

13. Were all bottle labels complete (ID, date, sign, preservative)?

14. Did all bottle labels agree with custody papers? If no, list on back. **Yes** No

15. Were correct containers used 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? If no, list by sample ID on back. **Yes** No

19. Was Client Services informed of problems? Yes **No** N/A DSB

55012

NUMBER 1268

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

PROJECT: JPL

OFS NO.: 1572.0276

PROJECT ADDRESS: 4800 OAK GROVE PASADENA, CA

SAMPLER (Name): J. BILENNER

SAMPLER (Signature): J. 3

LABORATORY: MONTGOMERY WATSON LABS

REPORTS TO BE SENT TO: M.L. 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, Cr, Pb (6010/7000)	MADOLANIONS + TDS	Cr^{6+}	ClO_4	OC FOG Cr^{6+}				
MW-992-112	0800	6/9/99	2	2 x 40ml	X			X									
MW-992-039	1130	6/8/99	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)
[illegible]	6-9-99	[illegible]			
COMPANY: [illegible]	TIME: 5:30	COMPANY: [illegible]	COMPANY	TIME	COMPANY

F-2

Report Summary of positive results, PR55012

		Result	MDL	UNITS
Analyzed	990609262 MW-992-112			
06/10/99	Chloroform (Trichloromethane)	0.8	.500	UGL
Analyzed	990609263 MW-992-038			
06/16/99	Alkalinity	172	2.000	MGL
06/17/99	Anion Sum	5.19	.001	MEQL
06/17/99	Bicarbonate as HCO3,calculated	210	.001	MGL
06/15/99	Calcium, Total, ICAP	54.7	1.000	MGL
06/17/99	Carbonate as CO3, Calculated	0.543	.001	MGL
06/16/99	Cation Sum	5.21	.001	MEQL
06/10/99	Chloride	20.8	1.000	MGL
06/14/99	Lab pH	7.6	.001	UNIT
06/15/99	Magnesium, Total, ICAP	18.1	.100	MGL
06/10/99	Nitrate-N by IC	2.18	.100	MGL
06/15/99	Potassium, Total, ICAP	3.0	1.000	MGL
06/15/99	Sodium, Total, ICAP	21.0	1.000	MGL
06/10/99	Specific Conductance	495	4.000	UMHO
06/10/99	Sulfate	48.6	2.000	MGL
06/12/99	Total Dissolved Solid (TDS)	300	10.000	MGL

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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
JUN 24 1999

DEB* Debbie Frank

Report#: 55012
JPL

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

Laboratory Report #55012

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

Samples Received
09-jun-1999 17:45:00

MW-992-112 (990609262) Sampled on 06/09/99

Regulated VOCs plus Lists 1&3

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
06/10/99	97624		(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
06/10/99	97624		(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
06/10/99	97624		(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
06/10/99	97624		(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
06/10/99	97624		(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
06/10/99	97624		(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
06/10/99	97624		(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
06/10/99	97624		(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
06/10/99	97624		(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
06/10/99	97624		(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
06/10/99	97624		(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
06/10/99	97624		(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
06/10/99	97624		(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
06/10/99	97624		(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
06/10/99	97624		(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
06/10/99	97624		(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
06/10/99	97624		(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
06/10/99	97624		(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
06/10/99	97624		(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
06/10/99	97624		(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
06/10/99	97624		(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
06/10/99	97624		(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
06/10/99	97624		(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
06/10/99	97624		(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
06/10/99	97624		(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
06/10/99	97624		(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
06/10/99	97624		(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
06/10/99	97624		(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
06/10/99	97624		(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Laboratory
Report
#55012

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	06/10/99	97624	(ML/EPA 524.2)	Chloroform (Trichloromethane)	0.8	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	06/10/99	97624	(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	103	% Rec		
			(Surrogate)	Toluene-d8	102	% Rec		

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Laboratory Report #55012

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-992-038 (990609263) Sampled on 06/09/99								
	06/16/99	97787	(ML/SM2320B)	Alkalinity	172	mg/l	2.0	1
	06/17/99		(ML/SM1040)	Anion Sum	5.19	meq/l	0.0010	1
06/10/99	06/16/99	97735	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
06/15/99	06/15/99	97613	(ML/EPA 200.7)	Calcium, Total, ICAP	54.7	mg/l	1.0	1
	06/16/99		(ML/SM1040)	Cation Sum	5.21	meq/l	0.0010	1
	06/10/99	97446	(ML/EPA 300)	Chloride	20.8	mg/l	1.0	1
	06/16/99	97711	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	06/17/99		(ML/SM2320B)	Carbonate as CO3, Calculated	0.543	mg/l	0.0010	1
06/10/99	06/11/99	97575	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	06/09/99	97363	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	06/10/99	97435	(ML/S2510B)	Specific Conductance	495	umho/cm	4.0	1
06/10/99	06/11/99	97577	(EPA/ML 200.8)	Iron, Total, ICAP/MS	ND	ug/l	100	1
	06/17/99		(ML/SM2320B)	Bicarbonate as HCO3,calculated	210	mg/l	0.0010	1
06/15/99	06/15/99	97616	(ML/EPA 200.7)	Potassium, Total, ICAP	3.0	mg/l	1.0	1
06/15/99	06/15/99	97620	(ML/EPA 200.7)	Magnesium, Total, ICAP	18.1	mg/l	0.10	1
06/15/99	06/15/99	97623	(ML/EPA 200.7)	Sodium, Total, ICAP	21.0	mg/l	1.0	1
	06/10/99	97449	(ML/EPA 300.0)	Nitrate-N by IC	2.18	mg/l	0.10	1
06/10/99	06/11/99	97578	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	06/14/99	97610	(ML/SM 4500HB)	Lab pH	7.6	Units	0.0010	1
	06/10/99	97450	(ML/EPA 300.0)	Sulfate	48.6	mg/l	2.0	1
	06/12/99	97653	(ML/SM2540C)	Total Dissolved Solid (TDS)	300	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	06/10/99	97624	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	06/10/99	97624	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	06/10/99	97624	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	06/10/99	97624	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	06/10/99	97624	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	06/10/99	97624	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	06/10/99	97624	(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	95	% Rec		

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QC Batch #97363 Hexavalent chromium (Cr VI)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0609263		(0.00 - 0.00)	
LCS1	Hexavalent chromium (Cr VI)	0.050	0.050	100.0	(78.00 - 118.00)	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.051	102.0	(78.00 - 118.00)	2.0
MBLK	Hexavalent chromium (Cr VI)	ND				
MS	Hexavalent chromium (Cr VI)	0.050	0.049	98.0	(80.00 - 120.00)	
MSD	Hexavalent chromium (Cr VI)	0.050	0.050	100.0	(80.00 - 120.00)	2.0

QC Batch #97435 Specific Conductance

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 99	0609263		(0.00 - 0.00)	

QC Batch #97446 Chloride

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0609263		(0.00 - 0.00)	
LCS1	Chloride	25	24.7	98.8	(90.00 - 110.00)	
LCS2	Chloride	25	24.7	98.8	(90.00 - 110.00)	0.00
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 #97449 Nitrate-N by IC

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0609263		(0.00 - 0.00)	
LCS1	Nitrate-N by IC	2.5	2.52	100.8	(94.00 - 106.00)	
LCS2	Nitrate-N by IC	2.5	2.51	100.4	(94.00 - 106.00)	0.40
MBLK	Nitrate-N by IC	ND				
MS	Nitrate-N by IC	2.5	2.55	102.0	(85.00 - 118.00)	
MSD	Nitrate-N by IC	2.5	2.55	102.0	(85.00 - 118.00)	0.00

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QC Batch #97450 Sulfate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0609263		(0.00 - 0.00)	
LCS1	Sulfate	50	49.4	98.8	(95.00 - 104.00)	
LCS2	Sulfate	50	49.4	98.8	(95.00 - 104.00)	0.00
MBLK	Sulfate	ND				
MS	Sulfate	50	52.5	105.0	(97.00 - 112.00)	
MSD	Sulfate	50	52.5	105.0	(97.00 - 112.00)	0.00

QC Batch #97575 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0603162		(0.00 - 0.00)	
LCS1	Chromium, Total, ICAP/MS	100	99	99.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	105	105.0	(85.00 - 115.00)	5.9
MBLK	Chromium, Total, ICAP/MS	ND				
MS	Chromium, Total, ICAP/MS	100	103	103.0	(77.00 - 119.00)	
MSD	Chromium, Total, ICAP/MS	100	96	96.0	(77.00 - 119.00)	7.0

QC Batch #97577 Iron, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0603162		(0.00 - 0.00)	
LCS1	Iron, Total, ICAP/MS	500	509	101.8	(85.00 - 115.00)	
LCS2	Iron, Total, ICAP/MS	500	535	107.0	(85.00 - 115.00)	5.0
MBLK	Iron, Total, ICAP/MS	ND				
MS	Iron, Total, ICAP/MS	500	520	104.0	(70.00 - 130.00)	
MSD	Iron, Total, ICAP/MS	500	481	96.2	(70.00 - 130.00)	7.8

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QC Batch #97578 Lead, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0603162		(0.00 - 0.00)	
LCS1	Lead, Total, ICAP/MS	20.0	21.5	107.5	(87.00 - 108.00)	
LCS2	Lead, Total, ICAP/MS	20.0	21.3	106.5	(87.00 - 108.00)	0.93
MBLK	Lead, Total, ICAP/MS	ND				
MS	Lead, Total, ICAP/MS	20.0	21.6	108.0	(75.00 - 119.00)	
MSD	Lead, Total, ICAP/MS	20.0	21.5	107.5	(75.00 - 119.00)	0.46

QC Batch #97610 Lab pH

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	lab # 99	0609263		(0.00 - 0.00)	

QC Batch #97613 Calcium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0602124		(0.00 - 0.00)	
LCS1	Calcium, Total, ICAP	50	51.8	103.6	(85.00 - 115.00)	
LCS2	Calcium, Total, ICAP	50	52.4	104.8	(85.00 - 115.00)	1.2
MBLK	Calcium, Total, ICAP	ND				
MS	Calcium, Total, ICAP	50	50.6	101.2	(70.00 - 130.00)	
MSD	Calcium, Total, ICAP	50	49.2	98.4	(70.00 - 130.00)	2.8

QC Batch #97616 Potassium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0602124		(0.00 - 0.00)	
LCS1	Potassium, Total, ICAP	20	20.6	103.0	(80.00 - 110.00)	
LCS2	Potassium, Total, ICAP	20	21.1	105.5	(80.00 - 110.00)	2.4
MBLK	Potassium, Total, ICAP	ND				

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MS	Potassium, Total, ICAP	20	20.6	103.0	(80.00 - 120.00)	
MSD	Potassium, Total, ICAP	20	20.1	100.5	(80.00 - 120.00)	2.5

QC Batch #97620 Magnesium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0602124		(0.00 - 0.00)	
LCS1	Magnesium, Total, ICAP	20	20.8	104.0	(97.00 - 115.00)	
LCS2	Magnesium, Total, ICAP	20	21.1	105.5	(97.00 - 115.00)	1.4
MBLK	Magnesium, Total, ICAP	ND				
MS	Magnesium, Total, ICAP	20	20.5	102.5	(74.00 - 130.00)	
MSD	Magnesium, Total, ICAP	20	19.9	99.5	(74.00 - 130.00)	3.0

QC Batch #97623 Sodium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0602124		(0.00 - 0.00)	
LCS1	Sodium, Total, ICAP	50	52.6	105.2	(94.00 - 112.00)	
LCS2	Sodium, Total, ICAP	50	53.2	106.4	(94.00 - 112.00)	1.1
MBLK	Sodium, Total, ICAP	ND				
MS	Sodium, Total, ICAP	50	51.7	103.4	(82.00 - 114.00)	
MSD	Sodium, Total, ICAP	50	50.3	100.6	(82.00 - 114.00)	2.7

QC Batch #97624 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	4	4.13	103.2	(76.00 - 116.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	3.90	97.5	(72.00 - 117.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	3.98	99.5	(71.00 - 116.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	4.02	100.5	(71.00 - 125.00)	

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MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	4.07	101.8	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MS	1,1-Dichloroethylene	4	4.67	116.8	(70.00 - 130.00)	
MSD	1,1-Dichloroethylene	4	4.95	123.8	(70.00 - 130.00)	5.8
MBLK	1,1-Dichloropropene	ND				
MBLK	1,2,3-Trichlorobenzene	ND				
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	4	3.98	99.5	(76.00 - 114.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	4	4.06	101.5	(75.00 - 120.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	4	3.73	93.2	(77.00 - 122.00)	
MBLK	1,2-Dichloropropane	ND				
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	8	7.75	96.9	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
LCS1	p-Dichlorobenzene (1,4-DCB)	4	4.06	101.5	(77.00 - 113.00)	
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 # 99	0603162		(0.00 - 0.00)	
LCS1	Benzene	4	4.08	102.0	(76.00 - 122.00)	
MBLK	Benzene	ND				
MS	Benzene	4	3.89	97.2	(70.00 - 130.00)	
MSD	Benzene	4	3.92	98.0	(70.00 - 130.00)	0.77
MBLK	Bromobenzene	ND				
MBLK	Bromomethane (Methyl Bromide)	ND				
LCS1	cis-1,2-Dichloroethylene	4	4.00	100.0	(75.00 - 124.00)	
MBLK	cis-1,2-Dichloroethylene	ND				
LCS1	Chlorobenzene	4	3.89	97.2	(70.00 - 117.00)	
MBLK	Chlorobenzene	ND				

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MS	Chlorobenzene	4	4.00	100.0	(70.00 - 130.00)	
MSD	Chlorobenzene	4	4.02	100.5	(70.00 - 130.00)	0.50
LCS1	Carbon Tetrachloride	4	4.08	102.0	(70.00 - 130.00)	
MBLK	Carbon Tetrachloride	ND				
MBLK	cis-1,3-Dichloropropene	ND				
LCS1	Bromoform	4	2.93	73.2	(70.00 - 130.00)	
MBLK	Bromoform	ND				
LCS1	Chloroform (Trichloromethane)	4	3.95	98.8	(74.00 - 124.00)	
MBLK	Chloroform (Trichloromethane)	ND				
MBLK	Bromochloromethane	ND				
MBLK	Chloroethane	ND				
MBLK	Chloromethane(Methyl Chloride)	ND				
LCS1	Chlorodibromomethane	4	3.55	88.8	(70.00 - 130.00)	
MBLK	Chlorodibromomethane	ND				
MBLK	Dibromomethane	ND				
LCS1	Bromodichloromethane	4	3.90	97.5	(70.00 - 116.00)	
MBLK	Bromodichloromethane	ND				
LCS1	Dichloromethane	4	3.10	77.5	(70.00 - 130.00)	
MBLK	Dichloromethane	ND				
LCS1	Ethyl benzene	4	3.98	99.5	(70.00 - 130.00)	
MBLK	Ethyl benzene	ND				
MBLK	Dichlorodifluoromethane	ND				
LCS1	Fluorotrichloromethane-Freon11	2	2.42	121.0	(71.00 - 118.00)	
MBLK	Fluorotrichloromethane-Freon11	ND				
MBLK	Hexachlorobutadiene	ND				
MBLK	Isopropylbenzene	ND				
MBLK	m-Dichlorobenzene (1,3-DCB)	ND				
LCS1	m,p-Xylenes	8	8.00	100.0	(74.00 - 116.00)	
MBLK	m,p-Xylenes	ND				
MBLK	Naphthalene	ND				
MBLK	n-Butylbenzene	ND				
MBLK	n-Propylbenzene	ND				
LCS1	o-Xylene	4	4.06	101.5	(72.00 - 118.00)	
MBLK	o-Xylene	ND				
LCS1	o-Dichlorobenzene (1,2-DCB)	4	3.88	97.0	(76.00 - 114.00)	
MBLK	o-Dichlorobenzene (1,2-DCB)	ND				
LCS1	Tetrachloroethylene (PCE)	4	4.02	100.5	(71.00 - 115.00)	

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MBLK	Tetrachloroethylene (PCE)	ND				
MBLK	p-Isopropyltoluene	ND				
MBLK	sec-Butylbenzene	ND				
LCS1	Styrene	4	4.04	101.0	(70.00 - 130.00)	
MBLK	Styrene	ND				
LCS1	1,2-dichloroethane-d4	100	105	105.0	(80.00 - 127.00)	
MBLK	1,2-dichloroethane-d4	100	110	110.0		
MS	1,2-dichloroethane-d4	100	105	105.0	(80.00 - 127.00)	
MSD	1,2-dichloroethane-d4	100	111	111.0	(80.00 - 127.00)	5.6
LCS1	Toluene-d8	100	101	101.0	(91.00 - 107.00)	
MBLK	Toluene-d8	100	102	102.0		
MS	Toluene-d8	100	106	106.0	(91.00 - 107.00)	
MSD	Toluene-d8	100	105	105.0	(91.00 - 107.00)	0.95
LCS1	4-Bromofluorobenzene	100	101	101.0	(82.00 - 119.00)	
MBLK	4-Bromofluorobenzene	100	97.5	97.5		
MS	4-Bromofluorobenzene	100	101	101.0	(82.00 - 119.00)	
MSD	4-Bromofluorobenzene	100	105	105.0	(82.00 - 119.00)	3.9
LCS1	trans-1,2-Dichloroethylene	4	3.98	99.5	(70.00 - 130.00)	
MBLK	trans-1,2-Dichloroethylene	ND				
MBLK	tert-Butylbenzene	ND				
LCS1	Trichloroethylene (TCE)	4	4.00	100.0	(72.00 - 117.00)	
MBLK	Trichloroethylene (TCE)	ND				
MS	Trichloroethylene (TCE)	4	2.83	70.8	(70.00 - 130.00)	
MSD	Trichloroethylene (TCE)	4	3.21	80.2	(70.00 - 130.00)	13
LCS1	Trichlorotrifluoroethane(Freon	2	1.72	86.0	(70.00 - 130.00)	
MBLK	Trichlorotrifluoroethane(Freon	ND				
MBLK	trans-1,3-Dichloropropene	ND				
LCS1	Toluene	4	4.10	102.5	(74.00 - 117.00)	
MBLK	Toluene	ND				
MS	Toluene	4	4.06	101.5	(70.00 - 130.00)	
MSD	Toluene	4	4.06	101.5	(70.00 - 130.00)	0.00
LCS1	Vinyl chloride (VC)	2	2.09	104.5	(70.00 - 130.00)	
MBLK	Vinyl chloride (VC)	ND				

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QC Batch #97653 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 99	0609033		(0.00 - 0.00)	
LCS1	Total Dissolved Solid (TDS)	175	168	96.0	(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 #97711 Perchlorate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0603162		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	20	100.0	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	20.8	104.0	(90.00 - 110.00)	3.9
MBLK	Perchlorate	ND				

QC Batch #97735 Arsenic, Total, GF

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0603162		(0.00 - 0.00)	
LCS1	Arsenic, Total, GF	0.020	0.0208	104.0	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.0207	103.5	(85.00 - 115.00)	0.48
MBLK	Arsenic, Total, GF	ND				
MS	Arsenic, Total, GF	0.020	0.0222	111.0	(70.00 - 130.00)	
MSD	Arsenic, Total, GF	0.020	0.0226	113.0	(70.00 - 130.00)	1.8

QC Batch #97787 Alkalinity

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0607137		(0.00 - 0.00)	
LCS1	Alkalinity	96.2	98.2	102.1	(96.00 - 107.00)	
LCS2	Alkalinity	96.2	98.3	102.2	(96.00 - 107.00)	0.10

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MBLK	Alkalinity	ND				
MS	Alkalinity	96.2	90.4	94.0	(80.00 - 120.00)	
MSD	Alkalinity	96.2	90.9	94.5	(80.00 - 120.00)	0.55

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