MWH Laboratories
MONTGOMERY WATSON HARZA

555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400
Fax: 626 568 6324
1 800 568 LABS (1 800 568 5227)

Laboratory Report

for

Foster Wheeler Environ. Inc.
1940 E Deere St, Ste 200

Santa Ana , CA 92705

Attention: David Tietje
Fax: 949 756-7560

DATE OF ISSUE

OCT 2 1 2002

MWH LABORATORIES

DPR Dennis Reyes
Project Manager

ACCREDITED IN ACCORDANCE WITH nelac 01114CA

Report#: 101707
TREAT

Laboratory certifies that the test results meet all **NELAC** requirements unless noted in the Comments section or the Case Narrative. Following the cover page are QC Report,QC Summary,Data Report,Hits Report, totaling 6 page[s].

MWH Laboratories
MONTGOMERY WATSON HARZA

CHAIN OF CUSTODY RECORD

555 East Walnut Street
Pasadena, California 91101
Phone: (626) 568-6400
(800) 566-5227
Fax: (626) 568-6324

MWH LABS USE ONLY:

LOGIN COMMENTS:

SAMPLES CHECKED/LOGGED IN BY: L-S 101707

SAMPLE TEMP, RECEIPT AT LAB 15°C (Compliance: 4 +/- 2*C)

SAMPLES RECEIVED DAY OF COLLECTION? ☐ (check for yes)

BLUE ICE: FROZEN ✓ PARTIALLY FROZEN ___ THAWED ___

TO BE COMPLETED BY SAMPLER:

TAT requested: STD ___ 1 week ___ 3 day X 1 day ___

(check for yes)

NON-COMPLIANCE SAMPLES ☐
COMPLIANCE SAMPLES ☐
- Requires state forms ☐

REGULATION: ___ (SDWA, Phase V, NPDES, FDA, ...)

COMPANY, UTILITY or PROJECT: FWENC

P.O.# / PROJECT JOB #: 2423.0003

REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES ☐ (check for yes)

SAMPLER PRINTED NAME AND SIGNATURE: David Tietje [signature]

ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)

SAMPLE DATE	SAMPLE TIME	SITE NAME or LOCATION	IDENTIFIER or STATE ID #	MATRIX *	GRAB	COMP	ClO_4^-	NO_3^-	AC^-	SAMPLER COMMENTS
10/14	1248	JPL	FPBR12-INF-1	RGW	X		X	X		
10/14	1245	JPL	FPBR12-INF-2	RGW	X				X	
10/14	1246	JPL	FPBR12-INF-3	RGW	X				X	
10/14	1243	JPL	FPBR12-EFF-4	GW	X		X	X	X	
10/14	1241	JPL	FPBR12-EFF-5	GW	X		X	X	X	
10/14	1239	JPL	FPBR12-EFF-6	GW	X		X	X	X	
10/14	1237	JPL	FPBR12-EFF-7	GW	X		X	X	X	
10/14	1235	JPL	FPBR12-EFF-8	GW	X		X	X	X	
			[signature] 10/14/02							

* MATRIX TYPES:

Reported by Volume:
RSW = Raw Surface Water
RGW = Raw Ground Water
FW = Other Finished Water
CFW = Chlor(am)inated Finished Water
SW = Storm Water
WW = Other Waste Water
CWW = Chlorinated Waste Water

Reported by Weight:
SO = Soil
SL = Sludge

	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
RELINQUISHED BY:	[signature]	Patrick Tinnes	Foster Wheeler	10/14/02	1315
RECEIVED BY:	[signature]	[signature]	[signature]	10/14/02	13:15
RELINQUISHED BY:					
RECEIVED BY:					

SCANNED

C-O-C# ___

PAGE ___ OF ___

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Laboratory Hits Report #101707

Foster Wheeler Environ. Inc.
David Tietje
1940 E Deere St, Ste 200
Santa Ana , CA 92705

Samples Received
14-oct-2002 15:16:40

Analyzed	Sample#	Sample ID	Result	UNITS	MRL
	2210140028	**JPL FPBR12-INF-1**			
10/14/02	Nitrate as NO3 by IC		48	mg/l	.880
10/14/02	Nitrate as Nitrogen by IC		11	mg/l	.200
10/16/02	Perchlorate		9200	ug/l	******
	2210140029	**JPL FPBR12-INF-2**			
10/16/02	Acetate		53	mg/l	1.000
	2210140030	**JPL FPBR12-INF-3**			
10/16/02	Acetate		71	mg/l	1.000
	2210140031	**JPL FPBR12-EFF-4**			
10/14/02	Nitrate as NO3 by IC		4.3	mg/l	.880
10/14/02	Nitrate as Nitrogen by IC		0.98	mg/l	.200
10/16/02	Acetate		13	mg/l	1.000
10/16/02	Perchlorate		2200	ug/l	******
	2210140032	**JPL FPBR12-EFF-5**			
10/14/02	Nitrate as NO3 by IC		1.76	mg/l	.880
10/14/02	Nitrate as Nitrogen by IC		0.40	mg/l	.200
10/17/02	Acetate		38	mg/l	1.000
10/16/02	Perchlorate		2000	ug/l	******
	2210140033	**JPL FPBR12-EFF-6**			
10/17/02	Acetate		15	mg/l	1.000
10/16/02	Perchlorate		540	ug/l	80.000

SUMMARY OF POSITIVE DATA ONLY.

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Laboratory
Hits Report
#101707

Foster Wheeler Environ. Inc.
David Tietje
1940 E Deere St, Ste 200
Santa Ana , CA 92705

Samples Received
14-oct-2002 15:16:40

Analyzed	Sample#	Sample ID	Result	UNITS	MRL
	2210140034	**JPL FPBR12-EFF-7**			
	2210140034	**JPL FPBR12-EFF-7**			
10/17/02	Acetate		42	mg/l	1.000
	2210140035	**JPL FPBR12-EFF-8**			
10/17/02	Acetate		10	mg/l	1.000

SUMMARY OF POSITIVE DATA ONLY.

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Laboratory Data Report #101707

Foster Wheeler Environ. Inc.
David Tietje
1940 E Deere St, Ste 200
Santa Ana , CA 92705

Samples Received
10/14/02

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
JPL FPBR12-INF-1 (2210140028) Sampled on 10/14/02 12:48								
	10/16/02 00:00	183494	(CADHS/EPA314)	Perchlorate	9200	ug/l	1600	400
Nitrate by IC as NO3 & N								
	10/14/02 00:00	183505	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	11	mg/l	0.20	2
	10/14/02 00:00	183505	(ML/EPA 300.0)	Nitrate as NO3 by IC	48	mg/l	0.88	2
JPL FPBR12-INF-2 (2210140029) Sampled on 10/14/02 12:45								
	10/16/02 00:00		(EPA 300 MOD)	Acetate	53	mg/l	1.0	1
JPL FPBR12-INF-3 (2210140030) Sampled on 10/14/02 12:46								
	10/16/02 00:00		(EPA 300 MOD)	Acetate	71	mg/l	1.0	1
JPL FPBR12-EFF-4 (2210140031) Sampled on 10/14/02 12:43								
	10/16/02 00:00		(EPA 300 MOD)	Acetate	13	mg/l	1.0	1
	10/16/02 00:00	183494	(CADHS/EPA314)	Perchlorate	2200	ug/l	400	100
Nitrate by IC as NO3 & N								
	10/14/02 00:00	183505	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	0.98	mg/l	0.20	2
	10/14/02 00:00	183505	(ML/EPA 300.0)	Nitrate as NO3 by IC	4.3	mg/l	0.88	2
JPL FPBR12-EFF-5 (2210140032) Sampled on 10/14/02 12:41								
	10/17/02 00:00		(EPA 300 MOD)	Acetate	38	mg/l	1.0	1
	10/16/02 00:00	183494	(CADHS/EPA314)	Perchlorate	2000	ug/l	400	100
Nitrate by IC as NO3 & N								
	10/14/02 00:00	183505	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	0.40	mg/l	0.20	2
	10/14/02 00:00	183505	(ML/EPA 300.0)	Nitrate as NO3 by IC	1.76	mg/l	0.88	2

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Laboratory
Data Report
#101707

Foster Wheeler Environ. Inc.
(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
JPL FPBR12-EFF-6 (2210140033) Sampled on 10/14/02 12:39								
	10/17/02 00:00		(EPA 300 MOD)	Acetate	15	mg/l	1.0	1
	10/16/02 00:00	183494	(CADHS/EPA314)	Perchlorate	540	ug/l	80	20
Nitrate by IC as NO3 & N								
	10/14/02 00:00	183505	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	ND	mg/l	0.20	2
	10/14/02 00:00	183505	(ML/EPA 300.0)	Nitrate as NO3 by IC	ND	mg/l	0.88	2
JPL FPBR12-EFF-7 (2210140034) Sampled on 10/14/02 12:37								
	10/17/02 00:00		(EPA 300 MOD)	Acetate	42	mg/l	1.0	1
	10/16/02 00:00	183494	(CADHS/EPA314)	Perchlorate	ND	ug/l	4.0	1
Nitrate by IC as NO3 & N								
	10/14/02 00:00	183505	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	ND	mg/l	0.20	2
	10/14/02 00:00	183505	(ML/EPA 300.0)	Nitrate as NO3 by IC	ND	mg/l	0.88	2
JPL FPBR12-EFF-8 (2210140035) Sampled on 10/14/02 12:35								
	10/17/02 00:00		(EPA 300 MOD)	Acetate	10	mg/l	1.0	1
	10/16/02 00:00	183494	(CADHS/EPA314)	Perchlorate	ND	ug/l	4.0	1
Nitrate by IC as NO3 & N								
	10/14/02 00:00	183505	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	ND	mg/l	0.20	2
	10/14/02 00:00	183505	(ML/EPA 300.0)	Nitrate as NO3 by IC	ND	mg/l	0.88	2

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Laboratory
QC Summary
#101707

Foster Wheeler Environ. Inc.

QC Ref #183494 - Perchlorate **Analysis Date: 10/16/2002**

2210140028	JPL FPBR12-INF-1
2210140031	JPL FPBR12-EFF-4
2210140032	JPL FPBR12-EFF-5
2210140033	JPL FPBR12-EFF-6
2210140034	JPL FPBR12-EFF-7
2210140035	JPL FPBR12-EFF-8

QC Ref #183505 - Nitrate by IC as NO3 & N **Analysis Date: 10/14/2002**

2210140028	JPL FPBR12-INF-1
2210140031	JPL FPBR12-EFF-4
2210140032	JPL FPBR12-EFF-5
2210140033	JPL FPBR12-EFF-6
2210140034	JPL FPBR12-EFF-7
2210140035	JPL FPBR12-EFF-8

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Laboratory
QC Report
#101707

Foster Wheeler Environ. Inc.

QC Ref #183494 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 22	10020067	UGL		(0-0)	
LCS1	Perchlorate	25.0	24.0	UGL	96.0	(85-115)	
LCS2	Perchlorate	25.0	25.2	UGL	100.8	(85-115)	4.9
MBLK	Perchlorate	ND	<4.00	UGL			
MS	Perchlorate	25.0	25.4	UGL	101.6	(80-120)	
MSD	Perchlorate	25.0	24.8	UGL	99.2	(80-120)	2.4

QC Ref #183505 Nitrate by IC as NO3 & N

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 22	10140020	NONE		(0-0)	
LCS1	Nitrate-N	2.5	2.59	MGL	103.6	(90-110)	
LCS2	Nitrate-N	2.5	2.61	MGL	104.4	(90-110)	0.77
MS	Nitrate-N	2.5	2.7	MGL	108.0	(90-110)	
MSD	Nitrate-N	2.5	2.7	MGL	108.0	(90-110)	0.00
MBLK	Nitrate as NO3 by IC	ND	<0.44	MGL			

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining. Criteria for MS and DUP are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

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Laboratory Report

for

Foster Wheeler Environ. Inc.
1940 E Deere St, Ste 200

Santa Ana , CA 92705

Attention: David Tietje
Fax: 949 756-7560

DATE OF ISSUE
OCT 1 8 2002
MWH LABORATORIES

DPR Dennis Reyes
Project Manager

ACCREDITED IN ACCORDANCE WITH nelac 01114CA

Report#: 101631
TREAT

Laboratory certifies that the test results meet all **NELAC** requirements unless noted in the Comments section or the Case Narrative. Following the cover page are QC Report,QC Summary,Data Report,Hits Report, totaling 7 page[s].

MWH Laboratories
MONTGOMERY WATSON HARZA

CHAIN OF CUSTODY RECORD

101631

555 East Walnut Street
Pasadena, California 91101
Phone: (626) 568-6400
(800) 566-5227
Fax: (626) 568-6324

MWH LABS USE ONLY:

LOGIN COMMENTS:

SAMPLES CHECKED/LOGGED IN BY:

SAMPLE TEMP, RECEIPT AT LAB 6 C (Compliance: 4 +/- 2*C)

SAMPLES RECEIVED DAY OF COLLECTION? ☐ (check for yes)

BLUE ICE: FROZEN ___ PARTIALLY FROZEN ___ THAWED ___

TO BE COMPLETED BY SAMPLER:

TAT requested: STD_____ 1 week _____ 3 day X 1 day _____

NON-COMPLIANCE SAMPLES ☐ (check for yes)
COMPLIANCE SAMPLES ☐
- Requires state forms

REGULATION: _____ (SDWA, Phase V, NPDES, FDA, ...)

COMPANY, UTILITY or PROJECT: FWENC

P.O.# / PROJECT JOB #: 037352

REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES ☐ (check for yes)

SAMPLER PRINTED NAME AND SIGNATURE: David Tietje

ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)

SAMPLE DATE	SAMPLE TIME	SITE NAME or LOCATION	IDENTIFIER or STATE ID #	MATRIX *	GRAB	COMP	ClO_4^-	Br^-	NO_3^-											SAMPLER COMMENTS
10/10	1058	JPL	FPBR10-INF-1	RGW			X		X											
10/10	1055	JPL	FPBR10-INF-2	RGW				X												
10/10	1054	JPL	FPBR10-INF-3	RGW				X												
10/10	1050	JPL	FPBR10-EFF-4	GW			X	X	X											
10/10	1048	JPL	FPBR10-EFF-5	GW			X	X	X											
10/10	1045	JPL	FPBR10-EFF-6	GW			X	X	X											
10/10	1040	JPL	FPBR10-EFF-7	GW			X	X	X											
10/10	1035	JPL	FPBR10-EFF-8	GW			X	X	X											

* MATRIX TYPES:

Reported by Volume:

RSW = Raw Surface Water
RGW = Raw Ground Water
FW = Other Finished Water
CFW = Chlor(am)inated Finished Water
SW = Storm Water
WW = Other Waste Water
CWW = Chlorinated Waste Water

Reported by Weight:

SO = Soil
SL = Sludge

	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
RELINQUISHED BY:	[illegible]	Patrick Jones	Foster Wheeler	10/10	11:37
RECEIVED BY:	[illegible]	[illegible]	[illegible]	10/10	11:37
RELINQUISHED BY:					
RECEIVED BY:					

C-O-C# _____

PAGE _____ OF _____

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MWH Laboratories
MONTGOMERY WATSON HARZA

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Laboratory
Hits Report
#101631

Foster Wheeler Environ. Inc.
David Tietje
1940 E Deere St, Ste 200
Santa Ana , CA 92705

Samples Received
10-oct-2002 18:30:24

Analyzed	Sample#	Sample ID	Result	UNITS	MRL
	2210100309	**FPBR10-INF-1**			
10/10/02	Nitrate as NO3 by IC		48	mg/l	.880
10/10/02	Nitrate as Nitrogen by IC		11	mg/l	.200
10/13/02	Perchlorate		10600	ug/l	******
	2210100310	**FPBR10-INF-2**			
10/16/02	Acetate		40	mg/l	1.000
	2210100311	**FPBR10-INF-3**			
10/16/02	Acetate		40	mg/l	1.000
	2210100313	**FPBR10-EFF-4**			
10/10/02	Nitrate as NO3 by IC		2.42	mg/l	.880
10/10/02	Nitrate as Nitrogen by IC		0.55	mg/l	.200
10/13/02	Perchlorate		2300	ug/l	******
	2210100315	**FPBR10-EFF-5**			
10/16/02	Acetate		15	mg/l	1.000
10/13/02	Perchlorate		2100	ug/l	******
	2210100316	**FPBR10-EFF-6**			
10/16/02	Acetate		1.8	mg/l	1.000
10/13/02	Perchlorate		420	ug/l	40.000
	2210100317	**FPBR10-EFF-7**			
10/16/02	Acetate		17	mg/l	1.000

SUMMARY OF POSITIVE DATA ONLY.

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Laboratory
Hits Report
#101631

Foster Wheeler Environ. Inc.
David Tietje
1940 E Deere St, Ste 200
Santa Ana , CA 92705

Samples Received
10-oct-2002 18:30:24

Analyzed	Sample#	Sample ID	Result	UNITS	MRL
	2210100317	**FPBR10-EFF-7**			
10/13/02	Perchlorate		490	ug/l	80.000
	2210100318	**FPBR10-EFF-8**			
10/16/02	Acetate		13	mg/l	1.000

SUMMARY OF POSITIVE DATA ONLY.

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Laboratory Data Report #101631

Foster Wheeler Environ. Inc.
David Tietje
1940 E Deere St, Ste 200
Santa Ana , CA 92705

Samples Received
10/10/02

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
FPBR10-INF-1 (2210100309) Sampled on 10/10/02 10:58								
	10/13/02 00:00	183016	(CADHS/EPA314)	Perchlorate	10600	ug/l	1600	400
Nitrate by IC as NO3 & N								
	10/10/02 00:00	182974	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	11	mg/l	0.20	2
	10/10/02 00:00	182974	(ML/EPA 300.0)	Nitrate as NO3 by IC	48	mg/l	0.88	2
FPBR10-INF-2 (2210100310) Sampled on 10/10/02 10:55								
	10/16/02 00:00		(EPA 300 MOD)	Acetate	40	mg/l	1.0	1
FPBR10-INF-3 (2210100311) Sampled on 10/10/02 10:54								
	10/16/02 00:00		(EPA 300 MOD)	Acetate	40	mg/l	1.0	1
FPBR10-EFF-4 (2210100313) Sampled on 10/10/02 10:50								
	10/16/02 00:00		(EPA 300 MOD)	Acetate	ND	mg/l	1.0	1
	10/13/02 00:00	183063	(CADHS/EPA314)	Perchlorate	2300	ug/l	400	100
Nitrate by IC as NO3 & N								
	10/10/02 00:00	182974	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	0.55	mg/l	0.20	2
	10/10/02 00:00	182974	(ML/EPA 300.0)	Nitrate as NO3 by IC	2.42	mg/l	0.88	2
FPBR10-EFF-5 (2210100315) Sampled on 10/10/02 10:48								
	10/16/02 00:00		(EPA 300 MOD)	Acetate	15	mg/l	1.0	1
	10/13/02 00:00	183063	(CADHS/EPA314)	Perchlorate	2100	ug/l	400	100
Nitrate by IC as NO3 & N								
	10/10/02 00:00	182974	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	ND	mg/l	0.20	2
	10/10/02 00:00	182974	(ML/EPA 300.0)	Nitrate as NO3 by IC	ND	mg/l	0.88	2

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Foster Wheeler Environ. Inc.
(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
FPBR10-EFF-6 (2210100316) Sampled on 10/10/02 10:45								
	10/16/02 00:00		(EPA 300 MOD)	Acetate	1.8	mg/l	1.0	1
	10/13/02 00:00	183063	(CADHS/EPA314)	Perchlorate	420	ug/l	40	10
			Nitrate by IC as NO3 & N					
	10/10/02 00:00	182974	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	ND	mg/l	0.20	2
	10/10/02 00:00	182974	(ML/EPA 300.0)	Nitrate as NO3 by IC	ND	mg/l	0.88	2
FPBR10-EFF-7 (2210100317) Sampled on 10/10/02 10:40								
	10/16/02 00:00		(EPA 300 MOD)	Acetate	17	mg/l	1.0	1
	10/13/02 00:00	183063	(CADHS/EPA314)	Perchlorate	490	ug/l	80	20
			Nitrate by IC as NO3 & N					
	10/10/02 00:00	182974	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	ND	mg/l	0.20	2
	10/10/02 00:00	182974	(ML/EPA 300.0)	Nitrate as NO3 by IC	ND	mg/l	0.88	2
FPBR10-EFF-8 (2210100318) Sampled on 10/10/02 10:35								
	10/16/02 00:00		(EPA 300 MOD)	Acetate	13	mg/l	1.0	1
	10/14/02 00:00	183062	(CADHS/EPA314)	Perchlorate	ND	ug/l	16	4
			Nitrate by IC as NO3 & N					
	10/10/02 00:00	182974	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	ND	mg/l	0.20	2
	10/10/02 00:00	182974	(ML/EPA 300.0)	Nitrate as NO3 by IC	ND	mg/l	0.88	2

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Pasadena, California 91101
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Fax: 626 568 6324
1 800 568 LABS (1 800 568 5227)

Laboratory
QC Summary
#101631

Foster Wheeler Environ. Inc.

QC Ref #182974 - Nitrate by IC as NO3 & N **Analysis Date: 10/10/2002**

2210100309	FPBR10-INF-1
2210100313	FPBR10-EFF-4
2210100315	FPBR10-EFF-5
2210100316	FPBR10-EFF-6
2210100317	FPBR10-EFF-7
2210100318	FPBR10-EFF-8

QC Ref #183016 - Perchlorate **Analysis Date: 10/13/2002**

2210100309	FPBR10-INF-1

QC Ref #183062 - Perchlorate **Analysis Date: 10/14/2002**

2210100318	FPBR10-EFF-8

QC Ref #183063 - Perchlorate **Analysis Date: 10/13/2002**

2210100313	FPBR10-EFF-4
2210100315	FPBR10-EFF-5
2210100316	FPBR10-EFF-6
2210100317	FPBR10-EFF-7

MWH Laboratories
MONTGOMERY WATSON HARZA

555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400
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Laboratory
QC Report
#101631

Foster Wheeler Environ. Inc.

QC Ref #182974 Nitrate by IC as NO3 & N

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 22	10100152	NONE		(0-0)	
LCS1	Nitrate-N	2.5	2.63	MGL	105.2	(90-110)	
LCS2	Nitrate-N	2.5	2.63	MGL	105.2	(90-110)	0.00
MS	Nitrate-N	2.5	2.59	MGL	103.6	(90-110)	
MSD	Nitrate-N	2.5	2.58	MGL	103.2	(90-110)	0.39
MBLK	Nitrate as NO3 by IC	ND	<0.44	MGL			

QC Ref #183016 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 22	10020246	UGL		(0-0)	
LCS1	Perchlorate	25.0	27.5	UGL	110.0	(85-115)	
LCS2	Perchlorate	25.0	27.2	UGL	108.8	(85-115)	1.1
MBLK	Perchlorate	ND	<4.00	UGL			
MS	Perchlorate	25.0	26.6	UGL	106.4	(80-120)	
MSD	Perchlorate	25.0	26.5	UGL	106.0	(80-120)	0.38

QC Ref #183062 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 22	09240049	UGL		(0-0)	
LCS1	Perchlorate	25.0	27.9	UGL	111.6	(85-115)	
LCS2	Perchlorate	25.0	28.7	UGL	114.8	(85-115)	2.8
MBLK	Perchlorate	ND	<4.00	UGL			
MS	Perchlorate	25.0	28.2	UGL	112.8	(80-120)	
MSD	Perchlorate	25.0	28.6	UGL	114.4	(80-120)	1.4

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

MWH Laboratories
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Foster Wheeler Environ. Inc.
(continued)

QC Ref #183063 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 22	10020004	UGL		(0-0)	
LCS1	Perchlorate	25.0	26.4	UGL	105.6	(85-115)	
LCS2	Perchlorate	25.0	27.3	UGL	109.2	(85-115)	3.4
MBLK	Perchlorate	ND	<4.00	UGL			
MS	Perchlorate	25.0	26.6	UGL	106.4	(80-120)	
MSD	Perchlorate	25.0	27.0	UGL	108.0	(80-120)	1.5

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

MWH Laboratories
MONTGOMERY WATSON HARZA

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

for

Foster Wheeler Environ. Inc.
1940 E Deere St, Ste 200

Santa Ana , CA 92705

Attention: David Tietje
Fax: 949 756-7560

DATE OF ISSUE
OCT 1 8 2002
MWH LABORATORIES

DPR Dennis Reyes
Project Manager

ACCREDITED IN ACCORDANCE WITH nelac 01114CA

Report#: 101453
TREAT

Laboratory certifies that the test results meet all **NELAC** requirements unless noted in the Comments section or the Case Narrative. Following the cover page are QC Report,QC Summary,Data Report,Hits Report, totaling 7 page[s].

MWH Laboratories
MONTGOMERY WATSON HARZA

CHAIN OF CUSTODY RECORD

101453

555 East Walnut Street
Pasadena, California 91101
Phone: (626) 568-6400
(800) 566-5227
Fax: (626) 568-6324

MWH LABS USE ONLY:

LOGIN COMMENTS:

SAMPLES CHECKED/LOGGED IN BY: L-S

SAMPLE TEMP, RECEIPT AT LAB 20°C (Compliance: 4 +/- 2*C)

SAMPLES RECEIVED DAY OF COLLECTION? [X] (check for yes)

BLUE ICE: FROZEN ✓ PARTIALLY FROZEN ___ THAWED ___

TO BE COMPLETED BY SAMPLER:

TAT requested: STD ___ 1 week ___ 3 day X 1 day ___

(check for yes)
NON-COMPLIANCE SAMPLES [ ]
COMPLIANCE SAMPLES [ ]
- Requires state forms

REGULATION: ___
(SDWA, Phase V, NPDES, FDA, ...)

COMPANY, UTILITY or PROJECT: FWENC

P.O.# / PROJECT JOB #: 037352/2423.0003

REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES [ ] (check for yes)

SAMPLER PRINTED NAME AND SIGNATURE:

ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)

SAMPLE DATE	SAMPLE TIME	SITE NAME or LOCATION	IDENTIFIER or STATE ID #	MATRIX *	GRAB	COMP	ClO4	NO3	Ac												SAMPLER COMMENTS
10/8	1459	JPL	FPBR9-INF 1	RGW	X		X	X													
10/8	1457	JPL	FPBR9-INF 2	RGW	X				X												
10/8	1456	JPL	FPBR 9-INF 3	RGW	X				X												
10/8	1454	JPL	FPBR9-EFF 4	GW	X		X	X	X												
10/8	1453	JPL	FPBR9-EFF 5	GW	X		X	X	X												
10/8	1451	JPL	FPBR9-EFF 6	GW	X		X	X	X												
10/8	1449	JPL	FPBR9-EFF 7	GW	X		X	X	X												
10/8	1445	JPL	FPBR9-EFF 8	GW	X		X	X	X												
			P.T. 10/8/02																		

* MATRIX TYPES:

Reported by Volume:
RSW = Raw Surface Water
RGW = Raw Ground Water
FW = Other Finished Water
CFW = Chlor(am)inated Finished Water
SW = Storm Water
WW = Other Waste Water
CWW = Chlorinated Waste Water

Reported by Weight:
SO = Soil
SL = Sludge

	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
RELINQUISHED BY:	[signature]	Patrick Tinnes	Foster Wheeler	10/8/02	1530
RECEIVED BY:	[signature]	MANUEL VASQUEZ	MWHL	10/8/02	15:30
RELINQUISHED BY:	[signature]				
RECEIVED BY:	[signature]	[signature]	[signature]	10/08/02	15:35

C-O-C# ___

SCANNED

PAGE ___ OF ___

MWH Laboratories
MONTGOMERY WATSON HARZA

555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400
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1 800 568 LABS (1 800 568 5227)

Laboratory Hits Report #101453

Foster Wheeler Environ. Inc.
David Tietje
1940 E Deere St, Ste 200
Santa Ana , CA 92705

Samples Received
08-oct-2002 15:26:32

Analyzed	Sample#	Sample ID	Result	UNITS	MRL
	2210080177	**FPBR9-INF 1**			
10/08/02	Nitrate as NO3 by IC		48	mg/l	.880
10/08/02	Nitrate as Nitrogen by IC		11	mg/l	.200
10/12/02	Perchlorate		10300	ug/l	******
	2210080178	**FPBR9-INF 2**			
10/16/02	Acetate		14	mg/l	1.000
	2210080179	**FPBR9-INF 3**			
10/16/02	Acetate		11	mg/l	1.000
	2210080180	**FPBR9-EFF 4**			
10/08/02	Nitrate as NO3 by IC		7.9	mg/l	.880
10/08/02	Nitrate as Nitrogen by IC		1.8	mg/l	.200
10/13/02	Perchlorate		5000	ug/l	******
	2210080182	**FPBR9-EFF 5**			
10/08/02	Nitrate as NO3 by IC		5.7	mg/l	.880
10/08/02	Nitrate as Nitrogen by IC		1.3	mg/l	.200
10/13/02	Perchlorate		6100	ug/l	******
	2210080183	**FPBR9-EFF 6**			
10/14/02	Perchlorate		1700	ug/l	******
	2210080184	**FPBR9-EFF 7**			
10/13/02	Perchlorate		4500	ug/l	******

SUMMARY OF POSITIVE DATA ONLY.

MWH Laboratories
MONTGOMERY WATSON HARZA

555 East Walnut Street
Pasadena, California 91101
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Laboratory
Hits Report
#101453

Foster Wheeler Environ. Inc.
David Tietje
1940 E Deere St, Ste 200
Santa Ana , CA 92705

Samples Received
08-oct-2002 15:26:32

Analyzed	Sample#	Sample ID	Result	UNITS	MRL
	2210080184	FPBR9-EFF 7			
	2210080185	FPBR9-EFF 8			

SUMMARY OF POSITIVE DATA ONLY.

MWH Laboratories
MONTGOMERY WATSON HARZA

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Laboratory Data Report #101453

Foster Wheeler Environ. Inc.
David Tietje
1940 E Deere St, Ste 200
Santa Ana , CA 92705

Samples Received
10/08/02

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
FPBR9-INF 1 (2210080177) Sampled on 10/08/02 14:59								
	10/12/02 00:00	183009	(CADHS/EPA314)	Perchlorate	10300	ug/l	1600	400
Nitrate by IC as NO3 & N								
	10/08/02 00:00	182975	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	11	mg/l	0.20	2
	10/08/02 00:00	182975	(ML/EPA 300.0)	Nitrate as NO3 by IC	48	mg/l	0.88	2
FPBR9-INF 2 (2210080178) Sampled on 10/08/02 14:57								
	10/16/02 00:00		(EPA 300 MOD)	Acetate	14	mg/l	1.0	1
FPBR9-INF 3 (2210080179) Sampled on 10/08/02 14:56								
	10/16/02 00:00		(EPA 300 MOD)	Acetate	11	mg/l	1.0	1
FPBR9-EFF 4 (2210080180) Sampled on 10/08/02 14:54								
	10/16/02 00:00		(EPA 300 MOD)	Acetate	ND	mg/l	1.0	1
	10/13/02 00:00	183016	(CADHS/EPA314)	Perchlorate	5000	ug/l	800	200
Nitrate by IC as NO3 & N								
	10/08/02 00:00	182975	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	1.8	mg/l	0.20	2
	10/08/02 00:00	182975	(ML/EPA 300.0)	Nitrate as NO3 by IC	7.9	mg/l	0.88	2
FPBR9-EFF 5 (2210080182) Sampled on 10/08/02 14:53								
	10/16/02 00:00		(EPA 300 MOD)	Acetate	ND	mg/l	1.0	1
	10/13/02 00:00	183016	(CADHS/EPA314)	Perchlorate	6100	ug/l	800	200
Nitrate by IC as NO3 & N								
	10/08/02 00:00	182975	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	1.3	mg/l	0.20	2
	10/08/02 00:00	182975	(ML/EPA 300.0)	Nitrate as NO3 by IC	5.7	mg/l	0.88	2

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Laboratory
Data Report
#101453

Foster Wheeler Environ. Inc.
(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
FPBR9-EFF 6 (2210080183) Sampled on 10/08/02 14:51								
	10/16/02 00:00		(EPA 300 MOD)	Acetate	ND	mg/l	1.0	1
	10/14/02 00:00	183062	(CADHS/EPA314)	Perchlorate	1700	ug/l	200	50
Nitrate by IC as NO3 & N								
	10/08/02 00:00	182975	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	ND	mg/l	0.20	2
	10/08/02 00:00	182975	(ML/EPA 300.0)	Nitrate as NO3 by IC	ND	mg/l	0.88	2
FPBR9-EFF 7 (2210080184) Sampled on 10/08/02 14:49								
	10/16/02 00:00		(EPA 300 MOD)	Acetate	ND	mg/l	1.0	1
	10/13/02 00:00	183016	(CADHS/EPA314)	Perchlorate	4500	ug/l	400	100
Nitrate by IC as NO3 & N								
	10/08/02 00:00	182975	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	ND	mg/l	0.20	2
	10/08/02 00:00	182975	(ML/EPA 300.0)	Nitrate as NO3 by IC	ND	mg/l	0.88	2
FPBR9-EFF 8 (2210080185) Sampled on 10/08/02 14:45								
	10/16/02 00:00		(EPA 300 MOD)	Acetate	ND	mg/l	1.0	1
	10/14/02 00:00	183062	(CADHS/EPA314)	Perchlorate	ND	ug/l	16	4
Nitrate by IC as NO3 & N								
	10/08/02 00:00	182975	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	ND	mg/l	0.20	2
	10/08/02 00:00	182975	(ML/EPA 300.0)	Nitrate as NO3 by IC	ND	mg/l	0.88	2

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Laboratory
QC Summary
#101453

Foster Wheeler Environ. Inc.

QC Ref #182975 - Nitrate by IC as NO3 & N **Analysis Date: 10/08/2002**

2210080177	FPBR9-INF 1
2210080180	FPBR9-EFF 4
2210080182	FPBR9-EFF 5
2210080183	FPBR9-EFF 6
2210080184	FPBR9-EFF 7
2210080185	FPBR9-EFF 8

QC Ref #183009 - Perchlorate **Analysis Date: 10/12/2002**

2210080177	FPBR9-INF 1

QC Ref #183016 - Perchlorate **Analysis Date: 10/13/2002**

2210080180	FPBR9-EFF 4
2210080182	FPBR9-EFF 5
2210080184	FPBR9-EFF 7

QC Ref #183062 - Perchlorate **Analysis Date: 10/14/2002**

2210080183	FPBR9-EFF 6
2210080185	FPBR9-EFF 8

MWH Laboratories
MONTGOMERY WATSON HARZA

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Pasadena, California 91101
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1 800 568 LABS (1 800 568 5227)

Laboratory
QC Report
#101453

Foster Wheeler Environ. Inc.

QC Ref #182975 Nitrate by IC as NO3 & N

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 22	10080157	NONE		(0-0)	
LCS1	Nitrate-N	2.5	2.58	MGL	103.2	(90-110)	
LCS2	Nitrate-N	2.5	2.59	MGL	103.6	(90-110)	0.39
MS	Nitrate-N	2.5	2.45	MGL	98.0	(90-110)	
MSD	Nitrate-N	2.5	2.47	MGL	98.8	(90-110)	0.81
MBLK	Nitrate as NO3 by IC	ND	<0.44	MGL			

QC Ref #183009 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 22	09300019	UGL		(0-0)	
LCS1	Perchlorate	25.0	24.5	UGL	98.0	(85-115)	
LCS2	Perchlorate	25.0	25.5	UGL	102.0	(85-115)	4.0
MBLK	Perchlorate	ND	<4.00	UGL			
MS	Perchlorate	25.0	26.4	UGL	105.6	(80-120)	
MSD	Perchlorate	25.0	26.9	UGL	107.6	(80-120)	1.9

QC Ref #183016 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 22	10020246	UGL		(0-0)	
LCS1	Perchlorate	25.0	27.5	UGL	110.0	(85-115)	
LCS2	Perchlorate	25.0	27.2	UGL	108.8	(85-115)	1.1
MBLK	Perchlorate	ND	<4.00	UGL			
MS	Perchlorate	25.0	26.6	UGL	106.4	(80-120)	
MSD	Perchlorate	25.0	26.5	UGL	106.0	(80-120)	0.38

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

MWH Laboratories
MONTGOMERY WATSON HARZA

555 East Walnut Street
Pasadena, California 91101
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1 800 568 LABS (1 800 568 5227)

Foster Wheeler Environ. Inc.
(continued)

QC Ref #183062 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 22	09240049	UGL		(0-0)	
LCS1	Perchlorate	25.0	27.9	UGL	111.6	(85-115)	
LCS2	Perchlorate	25.0	28.7	UGL	114.8	(85-115)	2.8
MBLK	Perchlorate	ND	<4.00	UGL			
MS	Perchlorate	25.0	28.2	UGL	112.8	(80-120)	
MSD	Perchlorate	25.0	28.6	UGL	114.4	(80-120)	1.4

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

MWH Laboratories
MONTGOMERY WATSON HARZA

555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400
Fax: 626 568 6324
1 800 568 LABS (1 800 568 5227)

Laboratory Report

for

Foster Wheeler Environ. Inc.
1940 E Deere St, Ste 200

Santa Ana , CA 92705

Attention: David Tietje
Fax: 949 756-7560

DATE OF ISSUE

OCT 17 2002

MWH LABORATORIES

DPR Dennis Reyes
Project Manager

ACCREDITED IN ACCORDANCE WITH nelac 01114CA

Report#: 101347
TREAT

Laboratory certifies that the test results meet all **NELAC** requirements unless noted in the Comments section or the Case Narrative. Following the cover page are QC Report,QC Summary,Data Report,Hits Report, totaling 7 page[s].

MWH Laboratories
MONTGOMERY WATSON HARZA

CHAIN OF CUSTODY RECORD

101347

555 East Walnut Street
Pasadena, California 91101
Phone: (626) 568-6400
(800) 566-5227
Fax: (626) 568-6324

MWH LABS USE ONLY:

LOGIN COMMENTS:

SAMPLES CHECKED/LOGGED IN BY:

SAMPLE TEMP, RECEIPT AT LAB 6° (Compliance: 4 +/- 2*C)

SAMPLES RECEIVED DAY OF COLLECTION? [X] (check for yes)

BLUE ICE: FROZEN ✓ PARTIALLY FROZEN ___ THAWED ___

TO BE COMPLETED BY SAMPLER:

TAT requested: STD ___ 1 week ___ 3 day X 1 day ___

NON-COMPLIANCE SAMPLES [ ] (check for yes)
COMPLIANCE SAMPLES [ ]
- Requires state forms

REGULATION: ___ (SDWA, Phase V, NPDES, FDA, ...)

COMPANY, UTILITY or PROJECT: FW ENC

P.O.# / PROJECT JOB #: 037352/2423.0003

REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES [ ] (check for yes)

SAMPLER PRINTED NAME AND SIGNATURE:

ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)

SAMPLE DATE	SAMPLE TIME	SITE NAME or LOCATION	IDENTIFIER or STATE ID #	MATRIX *	GRAB	COMP	ClO4	NO3	Ac												SAMPLER COMMENTS
10/4	1035	JPL	FPBR8-INF 1	RGW	X		X	X													
10/4	1034	JPL	FPBR8-INF 2	RGW	X				X												
10/4	1033	JPL	FPBR8-INF 3	RGW	X				X												
10/4	1031	JPL	FPBR8-EFF 4	GW	X		X	X	X												
10/4	1029	JPL	FPBR8-EFF 5	GW	X		X	X	X												
10/4	1027	JPL	FPBR8-EFF 6	GW	X		X	X	X												
10/4	1025	JPL	FPBR8-EFF 7	GW	X		X	X	X												
10/4	1022	JPL	FPBR8-EFF 8	GW	X		X	X	X												

* MATRIX TYPES:

Reported by Volume:

RSW = Raw Surface Water
RGW = Raw Ground Water
FW = Other Finished Water
CFW = Chlor(am)inated Finished Water
SW = Storm Water
WW = Other Waste Water
CWW = Chlorinated Waste Water

Reported by Weight:

SO = Soil
SL = Sludge

	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
RELINQUISHED BY:		David Thetje	Foster Wheeler / Engineer	10-4-02	1055
RECEIVED BY:		Robert Figueroa	MWH	10-4-02	1055
RELINQUISHED BY:					
RECEIVED BY:					

C-O-C# ___

PAGE ___ OF ___

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MWH Laboratories
MONTGOMERY WATSON HARZA

555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400
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1 800 568 LABS (1 800 568 5227)

Laboratory Hits Report #101347

Foster Wheeler Environ. Inc.
David Tietje
1940 E Deere St, Ste 200
Santa Ana , CA 92705

Samples Received
04-oct-2002 14:36:14

Analyzed	Sample#	Sample ID	Result	UNITS	MRL
	2210040075	**FPBR 8-INF 1**			
10/04/02	Nitrate as NO3 by IC		48	mg/l	.880
10/04/02	Nitrate as Nitrogen by IC		11	mg/l	.200
10/06/02	Perchlorate		8900	ug/l	******
	2210040076	**FPBR 8-INF 2**			
10/07/02	Acetate		22	mg/l	6.000
	2210040077	**FPBR 8-INF 3**			
	2210040078	**FPBR 8-EFF 4**			
10/04/02	Nitrate as NO3 by IC		2.68	mg/l	.440
10/04/02	Nitrate as Nitrogen by IC		0.61	mg/l	.100
10/07/02	Acetate		76	mg/l	6.000
10/06/02	Perchlorate		3600	ug/l	******
	2210040079	**FPBR 8-EFF 5**			
10/04/02	Nitrate as NO3 by IC		5.3	mg/l	.440
10/04/02	Nitrate as Nitrogen by IC		1.2	mg/l	.100
10/07/02	Acetate		21	mg/l	6.000
10/05/02	Perchlorate		2000	ug/l	******
	2210040080	**FPBR 8-EFF 6**			
10/07/02	Acetate		81	mg/l	6.000
10/05/02	Perchlorate		2400	ug/l	******
	2210040081	**FPBR 8-EFF 7**			

SUMMARY OF POSITIVE DATA ONLY.

MWH Laboratories
MONTGOMERY WATSON HARZA

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Laboratory Hits Report #101347

Foster Wheeler Environ. Inc.
David Tietje
1940 E Deere St, Ste 200
Santa Ana , CA 92705

Samples Received
04-oct-2002 14:36:14

Analyzed	Sample#	Sample ID	Result	UNITS	MRL
	2210040081	**FPBR 8-EFF 7**			
10/07/02	Acetate		35	mg/l	6.000
	2210040082	**FPBR 8-EFF 8**			
10/07/02	Acetate		45	mg/l	6.000
10/05/02	Perchlorate		210	ug/l	80.000

SUMMARY OF POSITIVE DATA ONLY.

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Laboratory
Data Report
#101347

Foster Wheeler Environ. Inc.
David Tietje
1940 E Deere St, Ste 200
Santa Ana , CA 92705

Samples Received
10/04/02

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
FPBR 8-INF 1 (2210040075) Sampled on 10/04/02 10:35								
	10/06/02 00:00	182620	(CADHS/EPA314)	Perchlorate	8900	ug/l	800	200
Nitrate by IC as NO3 & N								
	10/04/02 00:00	182977	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	11	mg/l	0.20	2
	10/04/02 00:00	182977	(ML/EPA 300.0)	Nitrate as NO3 by IC	48	mg/l	0.88	2
FPBR 8-INF 2 (2210040076) Sampled on 10/04/02 10:34								
	10/07/02 12:48		(EPA 300 MOD)	Acetate	22	mg/l	6.0	6
FPBR 8-INF 3 (2210040077) Sampled on 10/04/02 10:33								
	10/07/02 12:48		(EPA 300 MOD)	Acetate	ND	mg/l	1.0	1
FPBR 8-EFF 4 (2210040078) Sampled on 10/04/02 10:31								
	10/07/02 12:48		(EPA 300 MOD)	Acetate	76	mg/l	6.0	6
	10/06/02 00:00	182620	(CADHS/EPA314)	Perchlorate	3600	ug/l	400	100
Nitrate by IC as NO3 & N								
	10/04/02 00:00	182977	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	0.61	mg/l	0.10	1
	10/04/02 00:00	182977	(ML/EPA 300.0)	Nitrate as NO3 by IC	2.68	mg/l	0.44	1
FPBR 8-EFF 5 (2210040079) Sampled on 10/04/02 10:29								
	10/07/02 12:48		(EPA 300 MOD)	Acetate	21	mg/l	6.0	6
	10/05/02 00:00	182618	(CADHS/EPA314)	Perchlorate	2000	ug/l	400	100
Nitrate by IC as NO3 & N								
	10/04/02 00:00	182977	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	1.2	mg/l	0.10	1
	10/04/02 00:00	182977	(ML/EPA 300.0)	Nitrate as NO3 by IC	5.3	mg/l	0.44	1

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Foster Wheeler Environ. Inc.
(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
FPBR 8-EFF 6 (2210040080) Sampled on 10/04/02 10:27								
	10/07/02 12:48		(EPA 300 MOD)	Acetate	81	mg/l	6.0	6
	10/05/02 00:00	182618	(CADHS/EPA314)	Perchlorate	2400	ug/l	400	100
Nitrate by IC as NO3 & N								
	10/04/02 00:00	182977	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	ND	mg/l	0.10	1
	10/04/02 00:00	182977	(ML/EPA 300.0)	Nitrate as NO3 by IC	ND	mg/l	0.44	1
FPBR 8-EFF 7 (2210040081) Sampled on 10/04/02 10:25								
	10/07/02 12:48		(EPA 300 MOD)	Acetate	35	mg/l	6.0	6
	10/14/02 00:00	183062	(CADHS/EPA314)	Perchlorate	ND	ug/l	16	4
Nitrate by IC as NO3 & N								
	10/04/02 00:00	182977	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	ND	mg/l	0.10	1
	10/04/02 00:00	182977	(ML/EPA 300.0)	Nitrate as NO3 by IC	ND	mg/l	0.44	1
FPBR 8-EFF 8 (2210040082) Sampled on 10/04/02 10:22								
	10/07/02 12:48		(EPA 300 MOD)	Acetate	45	mg/l	6.0	6
	10/05/02 00:00	182618	(CADHS/EPA314)	Perchlorate	210	ug/l	80	20
Nitrate by IC as NO3 & N								
	10/04/02 00:00	182977	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	ND	mg/l	0.10	1
	10/04/02 00:00	182977	(ML/EPA 300.0)	Nitrate as NO3 by IC	ND	mg/l	0.44	1

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Laboratory
QC Summary
#101347

Foster Wheeler Environ. Inc.

QC Ref #182618 - Perchlorate **Analysis Date: 10/05/2002**

2210040079	FPBR 8-EFF 5
2210040080	FPBR 8-EFF 6
2210040082	FPBR 8-EFF 8

QC Ref #182620 - Perchlorate **Analysis Date: 10/06/2002**

2210040075	FPBR 8-INF 1
2210040078	FPBR 8-EFF 4

QC Ref #182977 - Nitrate by IC as NO3 & N **Analysis Date: 10/04/2002**

2210040075	FPBR 8-INF 1
2210040078	FPBR 8-EFF 4
2210040079	FPBR 8-EFF 5
2210040080	FPBR 8-EFF 6
2210040081	FPBR 8-EFF 7
2210040082	FPBR 8-EFF 8

QC Ref #183062 - Perchlorate **Analysis Date: 10/14/2002**

2210040081	FPBR 8-EFF 7

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Laboratory
QC Report
#101347

Foster Wheeler Environ. Inc.

QC Ref #182618 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 22	09170196	UGL		(0-0)	
LCS1	Perchlorate	25.0	23.9	UGL	95.6	(85-115)	
LCS2	Perchlorate	25.0	25.2	UGL	100.8	(85-115)	5.3
MBLK	Perchlorate	ND	<4.00	UGL			
MS	Perchlorate	25.0	24	UGL	96.0	(80-120)	
MSD	Perchlorate	25.0	23.2	UGL	92.8	(80-120)	3.4

QC Ref #182620 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 22	09270086	UGL		(0-0)	
LCS1	Perchlorate	25.0	25.3	UGL	101.2	(85-115)	
LCS2	Perchlorate	25.0	26.6	UGL	106.4	(85-115)	5.0
MBLK	Perchlorate	ND	<4.00	UGL			
MS	Perchlorate	25.0	23.5	UGL	94.0	(80-120)	
MSD	Perchlorate	25.0	24	UGL	96.0	(80-120)	2.1

QC Ref #182977 Nitrate by IC as NO3 & N

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 22	10040080	NONE		(0-0)	
LCS1	Nitrate-N	2.5	2.6	MGL	104.0	(90-110)	
LCS2	Nitrate-N	2.5	2.62	MGL	104.8	(90-110)	0.77
MS	Nitrate-N	2.5	2.58	MGL	103.2	(90-110)	
MSD	Nitrate-N	2.5	2.57	MGL	102.8	(90-110)	0.39
MBLK	Nitrate as NO3 by IC	ND	<0.44	MGL			

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

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QC Report
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Foster Wheeler Environ. Inc.
(continued)

QC Ref #183062 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 22	09240049	UGL		(0-0)	
LCS1	Perchlorate	25.0	27.9	UGL	111.6	(85-115)	
LCS2	Perchlorate	25.0	28.7	UGL	114.8	(85-115)	2.8
MBLK	Perchlorate	ND	<4.00	UGL			
MS	Perchlorate	25.0	28.2	UGL	112.8	(80-120)	
MSD	Perchlorate	25.0	28.6	UGL	114.4	(80-120)	1.4

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.