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

SEP 1 7 2002

MWH LABORATORIES

DPR Dennis Reyes
Project Manager

ACCREDITED IN ACCORDANCE WITH nelac 01114CA

Report#: 100331
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 Comments,QC Report,QC Summary,Data Report,Hits Report, totaling 7 page[s].

MWH Laboratories
MONTGOMERY WATSON HARZA

CHAIN OF CUSTODY RECORD

100331

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

MWH LABS USE ONLY:

LOGIN COMMENTS: REG ICE OK

SAMPLES CHECKED/LOGGED IN BY: NMD

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 _____

(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: David A. 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^-	NO_3^-	Ac^-												SAMPLER COMMENTS
9/6	0955	JPL	FPBR4-INF-1	RGW	X		X	X	X	DT											
9/6	0956	JPL	FPBR4-INF-2	RGW	X				X												
9/6	0957	JPL	FPBR4-INF-3	RGW	X				X												
9/6	0959	JPL	FPBR4-EFF-4	GW	X		X	X	X												
9/6	1001	JPL	FPBR4-EFF-5	GW	X		X	X	X												
9/6	1009	JPL	FPBR4-EFF-6	GW	X		X	X	X												
9/6	1006	JPL	FPBR4-EFF-7	GW	X		X	X	X												

Date 9/6/02

* 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	9-6-02	1020
RECEIVED BY:		M. DE MEJA	M.W.H.	9-6-2	1020
RELINQUISHED BY:					
RECEIVED BY:					

SCANNED

C-O-C# _____

PAGE _____ OF _____

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Report
Comments
#100331

(QC Ref#: 2209060148)
Test: Perchlorate (CADHS/EPA314)
THE RESULT IS CONFIRMED.

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Laboratory
Hits Report
#100331

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

Samples Received
06-sep-2002 16:17:27

Analyzed	Sample#	Sample ID	Result	UNITS	MRL
	2209060140	**JPL FPBR4-INF-1**			
09/06/02	Nitrate as NO3 by IC		45	mg/l	.880
09/06/02	Nitrate as Nitrogen by IC		10	mg/l	.200
09/06/02	Perchlorate		6600	ug/l	******
	2209060142	**JPL FPBR4-INF-2**			
09/08/02	Acetate		160	mg/l	2.000
	2209060143	**JPL FPBR4-INF-3**			
09/08/02	Acetate		35	mg/l	2.000
	2209060145	**JPL FPBR4-EFF-4**			
09/08/02	Acetate		130	mg/l	2.000
09/06/02	Perchlorate		2600	ug/l	******
	2209060147	**JPL FPBR4-EFF-5**			
09/06/02	Nitrate as NO3 by IC		28	mg/l	.880
09/06/02	Nitrate as Nitrogen by IC		6.2	mg/l	.200
09/06/02	Perchlorate		5300	ug/l	******
	2209060148	**JPL FPBR4-EFF-6**			
09/08/02	Acetate		140	mg/l	2.000
	2209060149	**JPL FPBR4-EFF-7**			
09/06/02	Nitrate as NO3 by IC		12	mg/l	.880
09/06/02	Nitrate as Nitrogen by IC		2.6	mg/l	.200

SUMMARY OF POSITIVE DATA ONLY.

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Laboratory
Hits Report
#100331

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

Samples Received
06-sep-2002 16:17:27

Analyzed	Sample#	Sample ID	Result	UNITS	MRL
	2209060149	**JPL FPBR4-EFF-7**			
09/06/02	Perchlorate		4700	ug/l	******

SUMMARY OF POSITIVE DATA ONLY.

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Laboratory
Data Report
#100331

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

Samples Received
09/06/02

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
JPL FPBR4-INF-1 (2209060140) Sampled on 09/06/02 09:55								
	09/06/02 00:00	180536	(CADHS/EPA314)	Perchlorate	6600	ug/l	400	100
			Nitrate by IC as NO3 & N					
	09/06/02 00:00	180470	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	10	mg/l	0.20	2
	09/06/02 00:00	180470	(ML/EPA 300.0)	Nitrate as NO3 by IC	45	mg/l	0.88	2
JPL FPBR4-INF-2 (2209060142) Sampled on 09/06/02 09:56								
	09/08/02 00:00		(EPA 300 MOD)	Acetate	160	mg/l	2.0	2
JPL FPBR4-INF-3 (2209060143) Sampled on 09/06/02 09:57								
	09/08/02 00:00		(EPA 300 MOD)	Acetate	35	mg/l	2.0	2
JPL FPBR4-EFF-4 (2209060145) Sampled on 09/06/02 09:59								
	09/08/02 00:00		(EPA 300 MOD)	Acetate	130	mg/l	2.0	2
	09/06/02 00:00	180536	(CADHS/EPA314)	Perchlorate	2600	ug/l	400	100
			Nitrate by IC as NO3 & N					
	09/06/02 00:00	180470	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	ND	mg/l	0.20	2
	09/06/02 00:00	180470	(ML/EPA 300.0)	Nitrate as NO3 by IC	ND	mg/l	0.88	2
JPL FPBR4-EFF-5 (2209060147) Sampled on 09/06/02 10:01								
	09/08/02 00:00		(EPA 300 MOD)	Acetate	ND	mg/l	1.0	1
	09/06/02 00:00	180536	(CADHS/EPA314)	Perchlorate	5300	ug/l	400	100
			Nitrate by IC as NO3 & N					
	09/06/02 00:00	180470	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	6.2	mg/l	0.20	2
	09/06/02 00:00	180470	(ML/EPA 300.0)	Nitrate as NO3 by IC	28	mg/l	0.88	2

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Laboratory
Data Report
#100331

Foster Wheeler Environ. Inc.
(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
JPL FPBR4-EFF-6 (2209060148) Sampled on 09/06/02 10:09								
	09/08/02 00:00		(EPA 300 MOD)	Acetate	140	mg/l	2.0	2
	09/12/02 00:00	180893	(CADHS/EPA314)	Perchlorate	ND	ug/l	4.0	1
			Nitrate by IC as NO3 & N					
	09/06/02 00:00	180470	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	ND	mg/l	0.20	2
	09/06/02 00:00	180470	(ML/EPA 300.0)	Nitrate as NO3 by IC	ND	mg/l	0.88	2
JPL FPBR4-EFF-7 (2209060149) Sampled on 09/06/02 10:06								
	09/08/02 00:00		(EPA 300 MOD)	Acetate	ND	mg/l	1.0	1
	09/06/02 00:00	180536	(CADHS/EPA314)	Perchlorate	4700	ug/l	400	100
			Nitrate by IC as NO3 & N					
	09/06/02 00:00	180470	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	2.6	mg/l	0.20	2
	09/06/02 00:00	180470	(ML/EPA 300.0)	Nitrate as NO3 by IC	12	mg/l	0.88	2

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Laboratory
QC Summary
#100331

Foster Wheeler Environ. Inc.

QC Ref #180470 - Nitrate by IC as NO3 & N **Analysis Date: 09/06/2002**

2209060140	JPL FPBR4-INF-1
2209060145	JPL FPBR4-EFF-4
2209060147	JPL FPBR4-EFF-5
2209060148	JPL FPBR4-EFF-6
2209060149	JPL FPBR4-EFF-7

QC Ref #180536 - Perchlorate **Analysis Date: 09/06/2002**

2209060140	JPL FPBR4-INF-1
2209060145	JPL FPBR4-EFF-4
2209060147	JPL FPBR4-EFF-5
2209060149	JPL FPBR4-EFF-7

QC Ref #180893 - Perchlorate **Analysis Date: 09/12/2002**

2209060148	JPL FPBR4-EFF-6

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Laboratory
QC Report
#100331

Foster Wheeler Environ. Inc.

QC Ref #180470 Nitrate by IC as NO3 & N

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 22	09060005	NONE		(0-0)	
LCS1	Nitrate-N	2.5	2.57	MGL	102.8	(90-110)	
LCS2	Nitrate-N	2.5	2.56	MGL	102.4	(90-110)	0.39
MS	Nitrate-N	2.5	2.52	MGL	100.8	(90-110)	
MSD	Nitrate-N	2.5	2.25	MGL	90.0	(90-110)	11
MBLK	Nitrate as NO3 by IC	ND	<0.44	MGL			

QC Ref #180536 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 22	08260123	UGL		(0-0)	
LCS1	Perchlorate	25.0	23.7	UGL	94.8	(85-115)	
LCS2	Perchlorate	25.0	27.2	UGL	108.8	(85-115)	14
MBLK	Perchlorate	ND	<4.00	UGL			

QC Ref #180893 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 22	09060148	UGL		(0-0)	
LCS1	Perchlorate	25.0	23.4	UGL	93.6	(85-115)	
LCS2	Perchlorate	25.0	24.6	UGL	98.4	(85-115)	5.0
MBLK	Perchlorate	ND	<4.00	UGL			
MS	Perchlorate	25.0	21.1	UGL	84.4	(80-120)	
MSD	Perchlorate	25.0	21.7	UGL	86.8	(80-120)	2.8

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

REVISED

DATE OF ISSUE

SEP 1 1 2002

MWH LABORATORIES

DPR Dennis Reyes
Project Manager

ACCREDITED IN ACCORDANCE WITH nelac 01114CA

Report#: 100218
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

100218

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: MD

SAMPLE TEMP, RECEIPT AT LAB 12 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 / 037352

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^-	Acetate												SAMPLER COMMENTS
9/4	828	JPL	FPBR3-INF-1	RGW	X		X	X	X	DT											
9/4	830	JPL	FPBR3-INF-2	RGW	X				X												
9/4	831	JPL	FPBR3-INF-3	RGW	X				X												
9/4	832	JPL	FPBR3-EFF-4	GW	X		X	X	X												
9/4	834	JPL	FPBR3-EFF-5	GW	X		X	X	X												
9/4	836	JPL	FPBR3-EFF-6	GW	X		X	X	X												
9/4	838	JPL	FPBR3-EFF-7	GW	X		X	X	X												

9/4/02 [signature]

* 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 Eng	9-4-02	930
RECEIVED BY:		M. DE MESA	M.W.H	9-4-2	930
RELINQUISHED BY:					
RECEIVED BY:					

C-O-C# _____

PAGE ___ OF ___

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Laboratory Hits Report #100218

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

Samples Received
04-sep-2002 16:07:14

Analyzed	Sample#	Sample ID	Result	UNITS	MRL
	2209040236	**JPL FPBR3-INF-1**			
09/05/02	Nitrate as NO3 by IC		45	mg/l	.880
09/05/02	Nitrate as Nitrogen by IC		10	mg/l	.200
09/05/02	Perchlorate		6600	ug/l	******
	2209040237	**JPL FPBR3-INF-2**			
09/05/02	Acetate		110	mg/l	10.000
	2209040238	**JPL FPBR3-INF-3**			
09/05/02	Acetate		60	mg/l	10.000
	2209040239	**JPL FPBR3-EFF-4**			
09/05/02	Acetate		21	mg/l	10.000
09/05/02	Perchlorate		5400	ug/l	******
	2209040240	**JPL FPBR3-EFF-5**			
09/05/02	Nitrate as NO3 by IC		1.0	mg/l	.880
09/05/02	Nitrate as Nitrogen by IC		0.23	mg/l	.200
09/05/02	Acetate		26	mg/l	10.000
09/05/02	Perchlorate		6500	ug/l	******
	2209040241	**JPL FPBR3-EFF-6**			
09/05/02	Acetate		46	mg/l	10.000
09/05/02	Perchlorate		5300	ug/l	******
	2209040242	**JPL FPBR3-EFF-7**			

SUMMARY OF POSITIVE DATA ONLY.

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Laboratory
Hits Report
#100218

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

Samples Received
04-sep-2002 16:07:14

Analyzed	Sample#	Sample ID	Result	UNITS	MRL
	2209040242	**JPL FPBR3-EFF-7**			
09/05/02	Perchlorate		5100	ug/l	******

SUMMARY OF POSITIVE DATA ONLY.

MWH Laboratories
MONTGOMERY WATSON HARZA

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Laboratory
Data Report
#100218

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

Samples Received
09/04/02

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
JPL FPBR3-INF-1 (2209040236) Sampled on 09/04/02 08:28								
	09/05/02 00:00	180381	(CADHS/EPA314)	Perchlorate	6600	ug/l	800	200
Nitrate by IC as NO3 & N								
	09/05/02 00:00	180375	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	10	mg/l	0.20	2
	09/05/02 00:00	180375	(ML/EPA 300.0)	Nitrate as NO3 by IC	45	mg/l	0.88	2
JPL FPBR3-INF-2 (2209040237) Sampled on 09/04/02 08:30								
	09/05/02 00:00		(EPA 300 MOD)	Acetate	110	mg/l	10	10
JPL FPBR3-INF-3 (2209040238) Sampled on 09/04/02 08:31								
	09/05/02 00:00		(EPA 300 MOD)	Acetate	60	mg/l	10	10
JPL FPBR3-EFF-4 (2209040239) Sampled on 09/04/02 08:32								
	09/05/02 00:00		(EPA 300 MOD)	Acetate	21	mg/l	10	10
	09/05/02 00:00	180381	(CADHS/EPA314)	Perchlorate	5400	ug/l	400	100
Nitrate by IC as NO3 & N								
	09/05/02 00:00	180375	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	ND	mg/l	0.20	2
	09/05/02 00:00	180375	(ML/EPA 300.0)	Nitrate as NO3 by IC	ND	mg/l	0.88	2
JPL FPBR3-EFF-5 (2209040240) Sampled on 09/04/02 08:34								
	09/05/02 00:00		(EPA 300 MOD)	Acetate	26	mg/l	10	10
	09/05/02 00:00	180381	(CADHS/EPA314)	Perchlorate	6500	ug/l	400	100
Nitrate by IC as NO3 & N								
	09/05/02 00:00	180375	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	0.23	mg/l	0.20	2
	09/05/02 00:00	180375	(ML/EPA 300.0)	Nitrate as NO3 by IC	1.0	mg/l	0.88	2

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Laboratory
Data Report
#100218

Foster Wheeler Environ. Inc.
(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
JPL FPBR3-EFF-6 (2209040241) Sampled on 09/04/02 08:36								
	09/05/02 00:00		(EPA 300 MOD)	Acetate	46	mg/l	10	10
	09/05/02 00:00	180381	(CADHS/EPA314)	Perchlorate	5300	ug/l	400	100
Nitrate by IC as NO3 & N								
	09/05/02 00:00	180375	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	ND	mg/l	0.20	2
	09/05/02 00:00	180375	(ML/EPA 300.0)	Nitrate as NO3 by IC	ND	mg/l	0.88	2
JPL FPBR3-EFF-7 (2209040242) Sampled on 09/04/02 08:38								
	09/05/02 00:00		(EPA 300 MOD)	Acetate	ND	mg/l	1.0	1
	09/05/02 00:00	180381	(CADHS/EPA314)	Perchlorate	5100	ug/l	400	100
Nitrate by IC as NO3 & N								
	09/05/02 00:00	180375	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	ND	mg/l	0.20	2
	09/05/02 00:00	180375	(ML/EPA 300.0)	Nitrate as NO3 by IC	ND	mg/l	0.88	2

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Laboratory
QC Summary
#100218

Foster Wheeler Environ. Inc.

QC Ref #180375 - Nitrate by IC as NO3 & N **Analysis Date: 09/05/2002**

2209040236	JPL FPBR3-INF-1
2209040239	JPL FPBR3-EFF-4
2209040240	JPL FPBR3-EFF-5
2209040241	JPL FPBR3-EFF-6
2209040242	JPL FPBR3-EFF-7

QC Ref #180381 - Perchlorate **Analysis Date: 09/05/2002**

2209040236	JPL FPBR3-INF-1
2209040239	JPL FPBR3-EFF-4
2209040240	JPL FPBR3-EFF-5
2209040241	JPL FPBR3-EFF-6
2209040242	JPL FPBR3-EFF-7

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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
QC Report
#100218

Foster Wheeler Environ. Inc.

QC Ref #180375 Nitrate by IC as NO3 & N

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 22	09040257	NONE		(0-0)	
LCS1	Nitrate-N	2.5	2.57	MGL	102.8	(90-110)	
LCS2	Nitrate-N	2.5	2.58	MGL	103.2	(90-110)	0.39
MS	Nitrate-N	5.0	4.96	MGL	99.2	(90-110)	
MSD	Nitrate-N	5.0	4.80	MGL	96.0	(90-110)	3.3
MBLK	Nitrate as NO3 by IC	ND	<0.44	MGL			

QC Ref #180381 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 22	08300129	UGL		(0-0)	
LCS1	Perchlorate	25.0	24.1	UGL	96.4	(85-115)	
LCS2	Perchlorate	25.0	23.4	UGL	93.6	(85-115)	2.9
MBLK	Perchlorate	ND	<4.00	UGL			
MS	Perchlorate	25.0	22.1	UGL	88.4	(80-120)	
MSD	Perchlorate	25.0	22.7	UGL	90.8	(80-120)	2.7

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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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
SEP 0 6 2002
MWH LABORATORIES

DPR Dennis Reyes
Project Manager

ACCREDITED IN ACCORDANCE WITH nelac 01114CA

Report#: 100097
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 5 page[s].

MWH Laboratories
MONTGOMERY WATSON HARZA

CHAIN OF CUSTODY RECORD

100097

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: T.C.C.

SAMPLE TEMP, RECEIPT AT LAB 4 (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: Foster Wheeler Env.

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

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

SAMPLER PRINTED NAME AND SIGNATURE: David A. 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^- by EPA 314	NO_3^- by EPA 300													SAMPLER COMMENTS
8/30	855	JPL	FPBR2 - INF - 1	RGW	X		X	X													
8/30	857	JPL	FPBR2 - EFF - 4	GW	X		X	X													
8/30	859	JPL	FPBR2 - EFF - 5	GW	X		X	X													
8/30	900	JPL	FPBR2 - EFF - 6	GW	X		X	X													
8/30	902	JPL	FPBR2 - EFF - 7	GW	X		X	X													

Patrick Tietje 8/30/02

* 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:		Patrick Tinnes	Foster Wheeler	8/30/02	9:30
RECEIVED BY:		T.C.C.	MWH	8/30/02	9:30
RELINQUISHED BY:					
RECEIVED BY:					

SCANNED

C-O-C# _____

PAGE _____ OF _____

MWH Laboratories
MONTGOMERY WATSON HARZA

555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400
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Laboratory Hits Report #100097

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

Samples Received
30-aug-2002 13:25:33

Analyzed	Sample#	Sample ID	Result	UNITS	MRL
	2208300048	**JPL FPBR2-INF-1**			
08/30/02		Nitrate as NO3 by IC	48.4	mg/l	.880
08/30/02		Nitrate as Nitrogen by IC	11	mg/l	.200
09/02/02		Perchlorate	6000	ug/l	******
	2208300049	**JPL FPBR2-EFF-4**			
08/30/02		Nitrate as NO3 by IC	9.2	mg/l	.880
08/30/02		Nitrate as Nitrogen by IC	2.1	mg/l	.200
09/02/02		Perchlorate	2400	ug/l	******
	2208300050	**JPL FPBR2-EFF-5**			
08/30/02		Nitrate as NO3 by IC	30	mg/l	.880
08/30/02		Nitrate as Nitrogen by IC	6.7	mg/l	.200
09/02/02		Perchlorate	4700	ug/l	******
	2208300051	**JPL FPBR2-EFF-6**			
08/30/02		Nitrate as NO3 by IC	1.5	mg/l	.880
08/30/02		Nitrate as Nitrogen by IC	0.33	mg/l	.200
09/02/02		Perchlorate	870	ug/l	******
	2208300052	**JPL FPBR2-EFF-7**			
08/30/02		Nitrate as NO3 by IC	15	mg/l	.880
08/30/02		Nitrate as Nitrogen by IC	3.4	mg/l	.200
09/02/02		Perchlorate	3400	ug/l	******

SUMMARY OF POSITIVE DATA ONLY.

MWH Laboratories
MONTGOMERY WATSON HARZA

555 East Walnut Street
Pasadena, California 91101
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Laboratory
Data Report
#100097

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

Samples Received
08/30/02

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
JPL FPBR2-INF-1 (2208300048) Sampled on 08/30/02 08:55								
	09/02/02 00:00	180096	(CADHS/EPA314)	Perchlorate	6000	ug/l	800	200
Nitrate by IC as NO3 & N								
	08/30/02 17:58	180330	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	11	mg/l	0.20	2
	08/30/02 17:58	180330	(ML/EPA 300.0)	Nitrate as NO3 by IC	48.4	mg/l	0.88	2
JPL FPBR2-EFF-4 (2208300049) Sampled on 08/30/02 08:57								
	09/02/02 00:00	180096	(CADHS/EPA314)	Perchlorate	2400	ug/l	400	100
Nitrate by IC as NO3 & N								
	08/30/02 18:00	180330	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	2.1	mg/l	0.20	2
	08/30/02 18:00	180330	(ML/EPA 300.0)	Nitrate as NO3 by IC	9.2	mg/l	0.88	2
JPL FPBR2-EFF-5 (2208300050) Sampled on 08/30/02 08:59								
	09/02/02 00:00	180096	(CADHS/EPA314)	Perchlorate	4700	ug/l	400	100
Nitrate by IC as NO3 & N								
	08/30/02 18:01	180330	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	6.7	mg/l	0.20	2
	08/30/02 18:01	180330	(ML/EPA 300.0)	Nitrate as NO3 by IC	30	mg/l	0.88	2
JPL FPBR2-EFF-6 (2208300051) Sampled on 08/30/02 09:00								
	09/02/02 00:00	180096	(CADHS/EPA314)	Perchlorate	870	ug/l	400	100
Nitrate by IC as NO3 & N								
	08/30/02 00:00	180330	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	0.33	mg/l	0.20	2
	08/30/02 00:00	180330	(ML/EPA 300.0)	Nitrate as NO3 by IC	1.5	mg/l	0.88	2

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Laboratory
Data Report
#100097

Foster Wheeler Environ. Inc.
(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
JPL FPBR2-EFF-7 (2208300052) Sampled on 08/30/02 09:02								
	09/02/02 00:00	180096	(CADHS/EPA314)	Perchlorate	3400	ug/l	400	100
			Nitrate by IC as NO3 & N					
	08/30/02 18:03	180330	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	3.4	mg/l	0.20	2
	08/30/02 18:03	180330	(ML/EPA 300.0)	Nitrate as NO3 by IC	15	mg/l	0.88	2

MWH Laboratories
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Laboratory
QC Report
#100097

Foster Wheeler Environ. Inc.

QC Ref #180096 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 22	08280073	UGL		(0-0)	
LCS1	Perchlorate	25.0	23.5	UGL	94.0	(85-115)	
LCS2	Perchlorate	25.0	24.0	UGL	96.0	(85-115)	2.1
MBLK	Perchlorate	ND	<4.00	UGL			
MS	Perchlorate	25.0	25.9	UGL	103.6	(80-120)	
MSD	Perchlorate	25.0	26.0	UGL	104.0	(80-120)	0.39

QC Ref #180330 Nitrate by IC as NO3 & N

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 22	08300156	NONE		(0-0)	
LCS1	Nitrate-N	2.5	2.61	MGL	104.4	(90-110)	
LCS2	Nitrate-N	2.5	2.61	MGL	104.4	(90-110)	0.00
MS	Nitrate-N	2.5	2.55	MGL	102.0	(90-110)	
MSD	Nitrate-N	2.5	2.59	MGL	103.6	(90-110)	1.6
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.

MWH Laboratories
MONTGOMERY WATSON HARZA

555 East Walnut Street
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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

SEP 0 9 2002

MWH LABORATORIES

DPR Dennis Reyes
Project Manager

ACCREDITED IN ACCORDANCE WITH nelac 01114CA

Report#: 99992
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].

MONTGOMERY WATSON LABORATORIES

CHAIN OF CUSTODY RECORD

99992

555 E. Walnut St., Pasadena, CA 91101
(626) 568-6400 (800) 566-5227

MWLABS USE ONLY:

LOGIN COMMENTS:

SAMPLES CHECKED/LOGGED IN BY: NO

SAMPLE TEMP, RECEIPT AT LAB 13 (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 ___

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

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

CLIENT or PROJECT NAME: FWENC

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

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

SAMPLER(S): PRINTED NAME AND SIGNATURE: David Tietje [signature]

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

TIME	DATE	SITE NAME or LOCATION	IDENTIFIER, STATE ID #	MATRIX *	GRAB	COMP	CO_4 - by EPA 314	NO_3 - by EPA 300	Acetate by IC	SAMPLER COMMENTS
1145	8/28	JPL	FPBR1-INF-1	RGW	X		X	X		
1147	8/28	JPL	FPBR1-INF-2	RGW	X				X	
1148	8/28	JPL	FPBR1-INF-3	RGW	X				X	
1150	8/28	JPL	FPBR1-EFF-4	GW	X		X	X	X	
1153	8/28	JPL	FPBR1-EFF-5	GW	X		X	X	X	
1155	8/28	JPL	FPBR1-EFF-6-1	GW	X		X	X	X	
1155 ~~1200~~	8/28	JPL	FPBR1-EFF-6-2	GW	X		X	X	X	Added 1 drop 10M NaOH / EA
1200	8/28	JPL	FPBR1-EFF-7	GW	X		X	X	X	
	~~8/28~~	JPL								
	8/28	JPL								

PT 8/28/02

* 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]	David Tietje	FWENC/Env. Engineer	08/29/02	1240
RECEIVED BY:	[signature]	N. ORNELAS	MWM	08/28/02	12:40
RELINQUISHED BY:					
RECEIVED BY:					

SCANNED

C-O-C# ___

PAGE ___ OF ___

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 Hits Report #99992

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

Samples Received
28-aug-2002 15:49:54

Analyzed	Sample#	Sample ID	Result	UNITS	MRL
	2208280122	**JPL FPBR1-INF-1**			
08/28/02	Nitrate as NO3 by IC		48.4	mg/l	.880
08/28/02	Nitrate as Nitrogen by IC		11	mg/l	.200
08/29/02	Perchlorate		5800	ug/l	******
	2208280123	**JPL FPBR1-INF-2**			
09/02/02	Acetate		410	mg/l	5.000
	2208280124	**JPL FPBR1-INF-3**			
09/02/02	Acetate		180	mg/l	5.000
	2208280125	**JPL FPBR1-EFF-4**			
08/28/02	Nitrate as NO3 by IC		15	mg/l	2.200
08/28/02	Nitrate as Nitrogen by IC		3.4	mg/l	.500
09/03/02	Acetate		600	mg/l	10.000
08/29/02	Perchlorate		2700	ug/l	******
	2208280126	**JPL FPBR1-EFF-5**			
08/28/02	Nitrate as NO3 by IC		16.7	mg/l	.880
08/28/02	Nitrate as Nitrogen by IC		3.8	mg/l	.200
09/02/02	Acetate		210	mg/l	5.000
08/29/02	Perchlorate		3000	ug/l	******
	2208280127	**JPL FPBR1-EFF-6-1**			
08/28/02	Nitrate as NO3 by IC		5.3	mg/l	2.200
08/28/02	Nitrate as Nitrogen by IC		1.2	mg/l	.500
09/03/02	Acetate		620	mg/l	10.000

SUMMARY OF POSITIVE DATA ONLY.

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 Hits Report #99992

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

Samples Received
28-aug-2002 15:49:54

Analyzed	Sample#	Sample ID	Result	UNITS	MRL
	2208280127	**JPL FPBR1-EFF-6-1**			
08/29/02	Perchlorate		1400	ug/l	******
	2208280128	**JPL FPBR1-EFF-6-2**			
08/28/02	Nitrate as NO3 by IC		5.3	mg/l	.880
08/28/02	Nitrate as Nitrogen by IC		1.2	mg/l	.200
09/03/02	Acetate		650	mg/l	10.000
08/29/02	Perchlorate		1600	ug/l	******
	2208280129	**JPL FPBR1-EFF-7**			
08/28/02	Nitrate as NO3 by IC		4.1	mg/l	.880
08/28/02	Nitrate as Nitrogen by IC		0.94	mg/l	.200
09/02/02	Acetate		210	mg/l	5.000
08/29/02	Perchlorate		1400	ug/l	******

SUMMARY OF POSITIVE DATA ONLY.

MWH Laboratories
MONTGOMERY WATSON HARZA

555 East Walnut Street
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Laboratory
Data Report
#99992

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

Samples Received
08/28/02

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
JPL FPBR1-INF-1 (2208280122) Sampled on 08/28/02 11:45								
	08/29/02 00:00	180089	(CADHS/EPA314)	Perchlorate	5800	ug/l	800	200
Nitrate by IC as NO3 & N								
	08/28/02 17:54	180326	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	11	mg/l	0.20	2
	08/28/02 17:54	180326	(ML/EPA 300.0)	Nitrate as NO3 by IC	48.4	mg/l	0.88	2
JPL FPBR1-INF-2 (2208280123) Sampled on 08/28/02 11:47								
	09/02/02 00:00		(EPA 300 MOD)	Acetate	410	mg/l	5.0	5
JPL FPBR1-INF-3 (2208280124) Sampled on 08/28/02 11:48								
	09/02/02 00:00		(EPA 300 MOD)	Acetate	180	mg/l	5.0	5
JPL FPBR1-EFF-4 (2208280125) Sampled on 08/28/02 11:50								
	09/03/02 00:00		(EPA 300 MOD)	Acetate	600	mg/l	10	10
	08/29/02 00:00	180089	(CADHS/EPA314)	Perchlorate	2700	ug/l	800	200
Nitrate by IC as NO3 & N								
	08/28/02 17:52	180326	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	3.4	mg/l	0.50	5
	08/28/02 17:52	180326	(ML/EPA 300.0)	Nitrate as NO3 by IC	15	mg/l	2.2	5
JPL FPBR1-EFF-5 (2208280126) Sampled on 08/28/02 11:53								
	09/02/02 00:00		(EPA 300 MOD)	Acetate	210	mg/l	5.0	5
	08/29/02 00:00	180089	(CADHS/EPA314)	Perchlorate	3000	ug/l	800	200
Nitrate by IC as NO3 & N								
	08/28/02 17:48	180326	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	3.8	mg/l	0.20	2
	08/28/02 17:48	180326	(ML/EPA 300.0)	Nitrate as NO3 by IC	16.7	mg/l	0.88	2

MWH Laboratories
MONTGOMERY WATSON HARZA

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Laboratory
Data Report
#99992

Foster Wheeler Environ. Inc.
(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
JPL FPBR1-EFF-6-1 (2208280127) Sampled on 08/28/02 11:55								
	09/03/02 00:00		(EPA 300 MOD)	Acetate	620	mg/l	10	10
	08/29/02 00:00	180089	(CADHS/EPA314)	Perchlorate	1400	ug/l	400	100
Nitrate by IC as NO3 & N								
	08/28/02 17:53	180326	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	1.2	mg/l	0.50	5
	08/28/02 17:53	180326	(ML/EPA 300.0)	Nitrate as NO3 by IC	5.3	mg/l	2.2	5
JPL FPBR1-EFF-6-2 (2208280128) Sampled on 08/28/02 11:55								
	09/03/02 00:00		(EPA 300 MOD)	Acetate	650	mg/l	10	10
	08/29/02 00:00	180089	(CADHS/EPA314)	Perchlorate	1600	ug/l	400	100
Nitrate by IC as NO3 & N								
	08/28/02 17:50	180326	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	1.2	mg/l	0.20	2
	08/28/02 17:50	180326	(ML/EPA 300.0)	Nitrate as NO3 by IC	5.3	mg/l	0.88	2
JPL FPBR1-EFF-7 (2208280129) Sampled on 08/28/02 12:00								
	09/02/02 00:00		(EPA 300 MOD)	Acetate	210	mg/l	5.0	5
	08/29/02 00:00	180089	(CADHS/EPA314)	Perchlorate	1400	ug/l	400	100
Nitrate by IC as NO3 & N								
	08/28/02 17:51	180326	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	0.94	mg/l	0.20	2
	08/28/02 17:51	180326	(ML/EPA 300.0)	Nitrate as NO3 by IC	4.1	mg/l	0.88	2

MWH Laboratories
MONTGOMERY WATSON HARZA

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Laboratory
QC Summary
#99992

Foster Wheeler Environ. Inc.

QC Ref #180089 - Perchlorate **Analysis Date: 08/29/2002**

2208280122	JPL FPBR1-INF-1
2208280125	JPL FPBR1-EFF-4
2208280126	JPL FPBR1-EFF-5
2208280127	JPL FPBR1-EFF-6-1
2208280128	JPL FPBR1-EFF-6-2
2208280129	JPL FPBR1-EFF-7

QC Ref #180326 - Nitrate by IC as NO3 & N **Analysis Date: 08/28/2002**

2208280122	JPL FPBR1-INF-1
2208280125	JPL FPBR1-EFF-4
2208280126	JPL FPBR1-EFF-5
2208280127	JPL FPBR1-EFF-6-1
2208280128	JPL FPBR1-EFF-6-2
2208280129	JPL FPBR1-EFF-7

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Laboratory
QC Report
#99992

Foster Wheeler Environ. Inc.

QC Ref #180089 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 22	08160081	UGL		(0-0)	
LCS1	Perchlorate	25.0	23.5	UGL	94.0	(85-115)	
LCS2	Perchlorate	25.0	24.3	UGL	97.2	(85-115)	3.3
MBLK	Perchlorate	ND	<4.00	UGL			
MS	Perchlorate	25.0	23.6	UGL	94.4	(80-120)	
MSD	Perchlorate	25.0	23.3	UGL	93.2	(80-120)	1.3

QC Ref #180326 Nitrate by IC as NO3 & N

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 22	08280134	NONE		(0-0)	
LCS1	Nitrate-N	2.5	2.57	MGL	102.8	(90-110)	
LCS2	Nitrate-N	2.5	2.6	MGL	104.0	(90-110)	1.2
MS	Nitrate-N	2.5	2.52	MGL	100.8	(90-110)	
MSD	Nitrate-N	2.5	2.53	MGL	101.2	(90-110)	0.40
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.