


FOSTER WHEELER ENVIRONMENTAL CORPORATION

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Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-17 Depth: 726 ft Date: 6-2-99
 Well Name: MW-17 Sampling Zone No.: 5 Starting Time: 0800 Finishing Time: 0930
 Technicians: M. Hunt, J. Brenner, + I. Mayes
 Water Level Inside MP Casing (Beginning of Session) 190.27 psia (End of Session) 190.18 psia

Run No.	Surface Function Checks					Position Sampler	Surface Collection Checks							Comments
	Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Deactivate Set Arm Locate Port	Water Level in MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level in MP (ft) Remove Tape	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	190.27	✓	0807	0810	✓	190.22	1	1 st run, initial parameters NTUs=16.3
2	✓	✓	✓	✓	✓	✓	190.24	✓	0837	0840	✓	190.25	1	2 nd run collect MW-9925044 VOA's, Metals, Anions, Cr6+
3	✓	✓	✓	✓	✓	✓	190.20	✓	0909	0912	✓	190.18	1	3 rd run, ClO ₄ , final parameters
4														
5														
6														
7														
8														
9														
10														
11														
12														

 Comments: Press. outside MP casing = 206.92 psia

 Total Volume: 3 ^{F2}



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Groundwater Sampling Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-18 Depth: 1270 Date: 5/17/99

Well Name: MW-18 Sampling Zone No.: 1 Starting Time: 1435 Finishing Time: 1535

Technicians: J. BRENNER, M. HUNT

Water Level Inside MP Casing (Beginning of Session) 14.16 (P.S.A.) (End of Session) 14.09 (P.S.A.)

Run No.	Surface Function Checks					Position Sampler	Surface Collection Checks							Comments
	Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Deactivate Set Arm Locate Port	Water Level in MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level in MP (ft) Remove Tape	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	14.16	✓	1444	1449	✓	14.01	1.0	1ST RUN, INITIAL PARAMETERS, NTU'S = 2.79
2	✓	✓	✓	✓	✓	✓	14.22	✓	1504	1507	✓	14.12	1.0	2ND RUN, COLLECT MW-992-045 ZYDAS METALS ANIONS ~~CONCENTRATION~~
3	✓	✓	✓	✓	✓	✓	14.17	✓	1523	1526	✓	14.09	1.0	3RD RUN, CP 67 C109, FINAL PARAMETERS
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: PRESS. OUTSIDE MP CASING = 32.77 P.S.A.

Total Volume: 3.02 ^{F2}



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Groundwater Sampling Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-18 Depth: 330 (MJA) Date: 5/17/99
Well Name: MW-18 Sampling Zone No.: 2 Starting Time: 1330 Finishing Time: 1430
Technicians: J. BRENNER, M. HUNT
Water Level Inside MP Casing (Beginning of Session) 14.10 (PSIA) (End of Session) 14.13 (PSIA)

Run No.	Surface Function Checks					Position Sampler	Surface Collection Checks							Comments
	Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Deactivate Set Arm Locate Port	Water Level in MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level in MP (ft) Remove Tape	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	14.10	✓	13:39	13:42	✓	14.11	1.0	1ST RUN; INITIAL PARAMETERS; NW'S
2	✓	✓	✓	✓	✓	✓	14.04	✓	13:59	14:02	✓	14.14	1.0	2ND RUN; COLLECT MW, FLOCH, ZVOCAS, METALS, ANIONS, GC.
3	✓	✓	✓	✓	✓	✓	14.25	✓	14:20	14:24	✓	14.13	1.0	3RD RUN; C104; FINAL PARAMETERS
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: PRESS. OUTSIDE MP CASING = 57.79 PSIATotal Volume: 3.04 ^{F2}



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Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-18 Depth: ~~37.24~~ 37.11 Date: 5/17/99
 Well Name: MW-18 Sampling Zone No.: 3 Starting Time: 1155 Finishing Time: 1320
 Technicians: J. BRENNER, M. HUNT
 Water Level Inside MP Casing (Beginning of Session) ~~37.11~~ 37.11 (End of Session) 37.02

Run No.	Surface Function Checks					Position Sampler	Surface Collection Checks							Comments
	Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed		Water Level in MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level in MP (ft) Remove Tape	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	~~37.11~~	✓	1206	1209	✓	37.12	1.0	1ST RUN, INITIAL PARAMETERS NTUS = 2.07
2	✓	✓	✓	✓	✓	✓	37.00	✓	1250	1253	✓	37.12	1.0	2ND RUN, COLLECT MW-992-047 -047MS, -047MS, 2 METERS
3														1/2 ANIONS
3	✓	✓	✓	✓	✓	✓	37.01	✓	1315	1318	✓	37.02	1.0	3RD RUN, 1/2 ANIONS, C104, FINAL PARAMETERS
5														
6														
7														
8														
9														
10														
11														
12														

Comments: PRESS. OUTSIDE MP CASING = 95.93 PSIA

Total Volume: 3.02 ^{F2}



FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-18 Depth: 564 Date: 5/17/99
 Well Name: MW-18 Sampling Zone No.: 4 Starting Time: 1030 Finishing Time: 1150
 Technicians: J. Brenner; M. Hunt
 Water Level Inside MP Casing (Beginning of Session) 98.01 (PSIA) (End of Session) 97.98

Run No.	Surface Function Checks					Position Sampler	Surface Collection Checks							Comments
	Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Deactivate Set Arm Locate Port	Water Level in MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level in MP (ft) Remove Tape	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	98.01	✓	1044	1047	✓	98.01	1.0	1ST RUN, INITIAL PARAMETERS NTU'S = 3.03
2	✓	✓	✓	✓	✓	✓	97.98	✓	1109	1112	✓	98.01	1.0	2ND RUN, COLLECT MW 982-048 2 VOAS METALS ANALYSIS C-6r
3	✓	✓	✓	✓	✓	✓	97.91	✓	1136	1138	✓	97.98	1.0	3RD RUN, C104, FINAL PARAMETERS
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: P235. OUTS. OF MP CASING = 149.75 PSIA

Total Volume: 3.02 ^{F2}



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Groundwater Sampling Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-13 Depth: 684 Date: 5/17/99

Well Name: MW-13 Sampling Zone No.: 5 Starting Time: 0850 Finishing Time: 1020

Technicians: J. BRENNER, M. HUNT

Water Level Inside MP Casing (Beginning of Session) 150.32 (End of Session) 150.16

Run No.	Surface Function Checks					Position Sampler	Surface Collection Checks							Comments
	Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Deactivate Set Arm Locate Port	Water Level in MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level in MP (ft) Remove Tape	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	150.82	✓	0901	0904	✓	150.24	1.0	1ST RUN, INITIAL PARAMETERS NTU'S = 2.37
2	✓	✓	✓	✓	✓	✓	150.23	✓	0942	0945	✓	150.21	1.0	2ND RUN, COLLECT MW-992-095 2 VIALS METALS, ANIONS C60
3	✓	✓	✓	✓	✓	✓	150.11	✓	1015	1018	✓	150.16	1.0	3RD RUN, C104 FINAL PARAMETERS
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: PRESS. OUTSIDE MP CASING = 196.10 PSIA Total Volume: 3.00 ^{F2}



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Groundwater Sampling Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-19 Depth: 242 Date: 5/18/99
Well Name: MW-19 Sampling Zone No.: 1 Starting Time: 1350 Finishing Time: 1445
Technicians: J. BRENNER, T. N. R. J. N. - K. R. R. M. HUNT
Water Level Inside MP Casing (Beginning of Session) 14.11 (PSIA) (End of Session) 14.19 (PSIA)

Run No.	Surface Function Checks					Position Sampler	Surface Collection Checks							Comments
	Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Deactivate Set Arm Locate Port	Water Level in MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level in MP (ft) Remove Tape	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	14.11	✓	1353	1403	✓	14.10	1.0	1ST RUN INITIAL PARAMETERS NTU'S =
2	✓	✓	✓	✓	✓	✓	14.12	✓	1419	1423	✓	14.10	1.0	2ND RUN, COLLECT MW-992050, 2 VOAS, METALS ANALYSIS &
3	✓	✓	✓	✓	✓	✓	14.16	✓	1435	1439	✓	14.19	1.0	3RD RUN 14.16, 14.19; FINAL PARAMETERS
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: PRESS. OUTSIDE MP. CASING = 53.05 PSIA Total Volume: 3L F2



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Groundwater Sampling Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-19 Depth: 314 Date: 5/18/99

Well Name: MW-19 Sampling Zone No.: 2 Starting Time: 1242 Finishing Time: 1345

Technicians J. BRENNER, T. TURPIN-K., M. HUNT

Water Level Inside MP Casing (Beginning of Session) 14.08 (End of Session) 14.19

Run No.	Surface Function Checks					Position Sampler	Surface Collection Checks							Comments
	Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Deactivate Set Arm Locate Port	Water Level in MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level in MP (ft) Remove Tape	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	14.08	✓	1249	1252	✓	14.14	1	1 ST RUN TO SCREEN 2'; INITIAL PARAMETERS
2	✓	✓	✓	✓	✓	✓	14.25	✓	1308	1311	✓	14.27	1	2 ND RUN; COLLECT MW-992-051 2 VOC'S; METALS; ANIONS; CR6+
3	✓	✓	✓	✓	✓	✓	14.14	✓	1333	1337	✓	14.19	1	3 RD RUN; CLO ₄ ; FINAL PARAMETERS
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: PRESS. OUTSIDE MP CASING = 76.17 PSI, A Total Volume: 3



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Groundwater Sampling Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-19 Depth: 392 Date: 5/13/99
Well Name: MW-19 Sampling Zone No.: 3 Starting Time: 1130 Finishing Time: 1234
Technicians: J. BRENNER; T. TURPIN-KARLIER; M. HUNT
Water Level Inside MP Casing (Beginning of Session) 47.57 (PSIA) (End of Session) 47.57 (PSIA)

Run No.	Surface Function Checks					Position Sampler	Surface Collection Checks							Comments
	Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Deactivate Set Arm Locate Port	Water Level in MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level in MP (ft) Remove Tape	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	47.57	✓	1138	1141	✓	47.68	1.0	1ST RUN, INITIAL PARAMETERS, NTU'S = 2.45
2	✓	✓	✓	✓	✓	✓	47.59	✓	1159	1202	✓	47.64	1.0	2ND RUN, COLLECT MW-452-052, -052MS, -052MSD '6VARS, 2METERS VEA'N'ON
3	✓	✓	✓	✓	✓	✓	47.58	✓	1222	1225	✓	47.57	1.0	3RD RUN, 1/2 ANIONS, C, 6, C104, FINAL PARAMETERS
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: ~~M.J.R.~~ PRESS. OUTSIDE MP CASING = 107.78 PSIA

Total Volume: 36 ^{F2}



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Groundwater Sampling Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-19 Depth: 444 Date: 5/18/95
Well Name: MW-19 Sampling Zone No.: 4 Starting Time: 1000 Finishing Time: 1125
Technicians: J. BRENNER, T. TURPIN-KASER, M. HUNT
Water Level Inside MP Casing (Beginning of Session) 70.42 (PSIA) (End of Session) 70.27 (PSIA)

Run No.	Surface Function Checks					Position Sampler	Surface Collection Checks							Comments
	Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Deactivate Set Arm Locate Port	Water Level in MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level in MP (ft) Remove Tape	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	~~70.42~~ 95.36	✓	1012	1016	✓	70.44	1	1st run to 4" screen; initial parameters
2	✓	✓	✓	✓	✓	✓	70.32	✓	1041	1044	✓	70.35	1	2nd run; collect MW-992-053 2 vials metals analysis C6r
3	✓	✓	✓	✓	✓	✓	70.25	✓	1104	1107	✓	70.27	1	3rd run C104 final parameters
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: PRESS. OUTSIDE MP CASING = 95.36 PSIA

Total Volume: 3.00 ^{F2}



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Groundwater Sampling Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-19 Depth: 490 Date: 5/18/79
Well Name: MW-19 Sampling Zone No.: 5 Starting Time: 0830 Finishing Time: 0955
Technicians: J. BERNER, T. TURPIN-K., M. HUNT
Water Level Inside MP Casing (Beginning of Session) 94.02 (PSIA) (End of Session) 93.92

Run No.	Surface Function Checks					Position Sampler	Surface Collection Checks							Comments
	Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Deactivate Set Arm Locate Port	Water Level in MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level in MP (ft) Remove Tape	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	94.02	✓	0835	0841	✓	94.01	1.0	1ST RUN TO SCREEN #5, INITIAL PARAMETERS
2	✓	✓	✓	✓	✓	✓	93.99	✓	0913	0915	✓	93.97	1.0	2ND RUN, COLLECT MW-94054, ZV04S, METALS ANALYSIS C-6
3	✓	✓	✓	✓	✓	✓	93.90	✓	0940	0943	✓	93.92	1.0	3RD RUN, CLO4, FINAL PARAMETERS
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: PRESS. OUTSIDE MP CASING = 117.42 PSIA

Total Volume: 3L

F-2



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Groundwater Sampling Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-20 Depth: 230 Date: 5/20/99
Well Name: MW-20 Sampling Zone No.: 1 Starting Time: 1355 Finishing Time: 1450
Technicians: J. BRENNER, M. HUNT
Water Level Inside MP Casing (Beginning of Session) 14.19 (PSIA) (End of Session) 14.30

Run No.	Surface Function Checks					Position Sampler	Surface Collection Checks							Comments
	Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Deactivate Set Arm Locate Port	Water Level in MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level in MP (ft) Remove Tape	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	14.19	✓	1404	1409	✓	14.16	1.0	1ST RUN - INITIAL PARAMETERS NOTES = 1.07
2	✓	✓	✓	✓	✓	✓	14.23	✓	1421	1426	✓	14.30	1.0	2ND RUN - COLLECT MW-992-OES -OESMS -OESMSID (VADAS 2 METALS)
3	✓	✓	✓	✓	✓	✓	14.28	✓	1441	1445	✓	14.30	1.0	3RD RUN - ANIONS, C-6, C104; FINAL PARAMETERS
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: DRESS, OUTSIDE MP CASING = 32.72 PSIA

Total Volume: 3.02 ^{F2}



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Groundwater Sampling Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-20 Depth: 392 Date: 5/20/99
Well Name: MW-20 Sampling Zone No.: 2 Starting Time: 1250 Finishing Time: 1350
Technicians: J. Brainerd, M. Hunt
Water Level Inside MP Casing (Beginning of Session) 45.10 (PSA) (End of Session) 45.05 (PSA)

Run No.	Surface Function Checks					Position Sampler	Surface Collection Checks							Comments
	Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Deactivate Set Arm Locate Port	Water Level in MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level in MP (ft) Remove Tape	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	45.10	✓	1255	1300	✓	45.10	1.0	1ST RUN: INITIAL PARAMETERS; NTU'S = 0.89
2	✓	✓	✓	✓	✓	✓	45.05	✓	1317	1341	✓	45.05	1.0	2ND RUN: COLLECT MW 392-056 2 Vials, Metals, Anions, C.G.
3	✓	✓	✓	✓	✓	✓	45.03	✓	1341	1343	✓	45.05	1.0	3RD RUN: CLOG, FINAL PARAMETERS
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: PRESS. OUTSIDE MP CASING = 102.71 PSA Total Volume: 3.02 ^{F2}



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Groundwater Sampling Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-20 Depth: 562 Date: 5/20/99
Well Name: MW-20 Sampling Zone No.: 3 Starting Time: 1130 Finishing Time: 1240
Technicians: J. BRANNON; M. HUNT
Water Level Inside MP Casing (Beginning of Session) 119.04 (PS.A) (End of Session) 119.01 (PS.A)

Run No.	Surface Function Checks					Position Sampler	Surface Collection Checks							Comments
	Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Deactivate Set Arm Locate Port	Water Level in MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level in MP (ft) Remove Tape	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	119.04	✓	1142	1144	✓	119.05	1.0	1ST RUN; INITIAL PARAMETERS NTU'S = 0.97
2	✓	✓	✓	✓	✓	✓	118.97	✓	1206	1209	✓	119.00	1.0	2ND RUN; COLLECT MW-992-057 2VONS METALS ANIONS C6+
3	✓	✓	✓	✓	✓	✓	118.99	✓	1231	1233	✓	119.01	1.0	3RD RUN; CLOSING FINAL PARAMETERS
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: PRESS. OUTSIDE MP CASING = 169.161 PS.A

Total Volume: 300 ^{F2}



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Groundwater Sampling Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-20 Depth: 700 Date: 5/20/99
Well Name: MW-20 Sampling Zone No.: 4 Starting Time: 1005 Finishing Time: 1125
Technicians: J. BRENNER, M. HUNT
Water Level Inside MP Casing (Beginning of Session) 179.11 (P.S.A) (End of Session) 179.07 (P.S.A)

Run No.	Surface Function Checks					Position Sampler	Surface Collection Checks							Comments
	Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed		Deactivate Set Arm Locate Port	Water Level in MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level in MP (ft) Remove Tape	
1	✓	✓	✓	✓	✓	✓	179.11	✓	1016	1018	✓	179.10	1.0	1ST RUN, INITIAL PARAMETERS NTUS = 2.36
2	✓	✓	✓	✓	✓	✓	179.14	✓	1043	1045	✓	179.07	1.0	2ND RUN, COLLECT MW. PPL USE 2 VOLS METALS, ANIONS, G-6
3	✓	✓	✓	✓	✓	✓	179.11	✓	1110	1112	✓	179.07	1.0	3RD RUN, CLOG, FINAL PARAMETERS
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: PRESS. OUTSIDE MP CASING = 230.61 P.S.A

Total Volume: 3.02 ^{F2}



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Groundwater Sampling Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-20 Depth: 900 Date: 5/20/99Well Name: MW-20 Sampling Zone No.: 5 Starting Time: 0810 Finishing Time: 1000Technicians: J. BRENNER, M. HUNTWater Level Inside MP Casing (Beginning of Session) 266.01 PSIA (End of Session) 266.02

Run No.	Surface Function Checks					Position Sampler	Surface Collection Checks							Comments
	Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Deactivate Set Arm Locate Port	Water Level in MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level in MP (ft) Remove Tape	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	266.01	✓	0831	0833	✓	266.05	1.0	1ST RUN, INITIAL PARAMETERS, NTJS = 2.72
2	✓	✓	✓	✓	✓	✓	266.03	✓	0903	0905	✓	266.04	1.0	2ND RUN, COLLECT MW-992-059, 2VUAS, MIBAS, AMMONS, C-6
3	✓	✓	✓	✓	✓	✓	266.05	✓	0940	0942	✓	266.02	1.0	3RD RUN, C104, FINAL PARAMETERS
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: PRESS. OUTSIDE MP CASING = 323.15 PSIATotal Volume: 3.0 ^{F2}



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Groundwater Sampling Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-21 Depth: 90 Date: 5/21/99
 Well Name: MW-21 Sampling Zone No.: 1 Starting Time: 1210 Finishing Time: 1255
 Technicians: J. BRENNER, M. HUNT
 Water Level Inside MP Casing (Beginning of Session) 15.02 (PSIA) (End of Session) 15.05

Run No.	Surface Function Checks					Position Sampler	Surface Collection Checks							Comments
	Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Deactivate Set Arm Locate Port	Water Level in MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level in MP (ft) Remove Tape	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	15.02	✓	1215	1220	✓	15.05	1.0	1st RUN; INITIAL PARAMETERS; NUS = 2.83
2	✓	✓	✓	✓	✓	✓	15.05	✓	1230	1235	✓	15.07	1.0	2ND RUN; COLLECT MW-912-060 2 VOCAS METALS ANIONS
3	✓	✓	✓	✓	✓	✓	15.07	✓	1247	1252	✓	15.05	1.0	3RD RUN; C64, C104; FINAL PARAMETERS
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: PRESS. OUTSIDE MP CAS. 26 = 30.57 PSIA Total Volume: 3.00 ^{F2}

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-21 Depth: 161 Date: 5/21/99
Well Name: MW-21 Sampling Zone No.: 2 Starting Time: 1120 Finishing Time: 1205
Technicians: J. Branner, M. Hunt
Water Level Inside MP Casing (Beginning of Session) 46.42 (End of Session) 46.44 (P.S.A)

[illegible]

Comments: PRESS. OUTSIDE MP CASING = 61.4" PSID

Total Volume: 3.00^F



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Groundwater Sampling Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-21 Depth: 240 Date: 5/21/99
 Well Name: MW-21 Sampling Zone No.: 3 Starting Time: 1025 Finishing Time: 1115
 Technicians: J. BRENNER, M. HUNT
 Water Level Inside MP Casing (Beginning of Session) 80.78 (PSIA) (End of Session) 80.73 (PSIA)

Run No.	Surface Function Checks					Position Sampler	Surface Collection Checks							Comments
	Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed		Water Level in MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level in MP (ft) Remove Tape	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	80.78	✓	1033	1036	✓	80.78	1.0	1ST RUN: INITIAL PARAMETERS, NTU'S = 2.21
2	✓	✓	✓	✓	✓	✓	80.78	✓	1050	1053	✓	80.75	1.0	2ND RUN: COLLECT MW 942-062 2 VOLS: METALS ANALYSIS G-64
3	✓	✓	✓	✓	✓	✓	80.75	✓	1107	1110	✓	80.73	1.0	3RD RUN: C104: FINAL PARAMETERS
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: PRESS. OUTSIDE OF MP CASING = 95.34 PSIA Total Volume: 3.0 L ^{F2}



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Groundwater Sampling Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-21 Depth: 310 Date: 5/21/95Well Name: MW-21 Sampling Zone No.: 4 Starting Time: 0920 Finishing Time: 1020Technicians: J. Branner, M. HuntWater Level Inside MP Casing (Beginning of Session) 110.86 (PSIA) (End of Session) 110.79 (PSIA)

Run No.	Surface Function Checks					Position Sampler	Surface Collection Checks							Comments
	Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Deactivate Set Arm Locate Port	Water Level in MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level in MP (ft) Remove Tape	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	110.86	✓	0935	0938	✓	110.84	1.0	1ST RUN, INITIAL PARAMETERS, NTU'S = 7.63
2	✓	✓	✓	✓	✓	✓	110.83	✓	0953	0955	✓	110.83	1.0	2ND RUN, COLLECT MW-92-063 2 VOAS METALS ANIONS, C-64
3	✓	✓	✓	✓	✓	✓	110.81	✓	1014	1016	✓	110.79	1.0	3RD RUN, C104, FINAL PARAMETERS
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: PRESS. OUTSIDE MP CASING = 125.04 PSIATotal Volume: 3.02 ^{F2}



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Groundwater Sampling Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-21 Depth: 372 Date: 5/21/99
 Well Name: MW-21 Sampling Zone No.: 5 Starting Time: 0815 Finishing Time: 0915
 Technicians: J. BRANNER; M. HUNT
 Water Level Inside MP Casing (Beginning of Session) 137.97 (PSIA) (End of Session) 137.88 PSIA

Run No.	Surface Function Checks					Position Sampler	Surface Collection Checks							Comments
	Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Deactivate Set Arm Locate Port	Water Level in MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level in MP (ft) Remove Tape	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	137.97	✓	0825	0831	✓	137.95	1.0	1ST RUN INITIAL PARAMETERS NTU'S = 3.27
2	✓	✓	✓	✓	✓	✓	137.92	✓	0847	0850	✓	137.91	1.0	2ND RUN; COLLECT MW-992-069, 240AS METALS, ANIONS C-6
3	✓	✓	✓	✓	✓	✓	137.87	✓	0908	0910	✓	137.80	1.0	3RD RUN; C104; FINAL PARAMETERS
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: Press. OUTSIDE MP CASING = 151.91 PSIA

Total Volume: 3.02 ^{F2}



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Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-22 Depth: 245 ft Date: 5-27-99

Well Name: MW-22 Sampling Zone No.: 1 Starting Time: 1320 Finishing Time: 1420

Technicians J. Brenner + M. Hunt

Water Level Inside MP Casing (Beginning of Session) 29.55 psia (End of Session) 29.65 psia

Run No.	Surface Function Checks					Position Sampler	Surface Collection Checks							Comments
	Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Deactivate Set Arm Locate Port	Water Level in MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level in MP (ft) Remove Tape	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	29.55	✓	1323	1327	✓	29.68	1	1 st run, initial parameters, NTUs = 37.6
2	✓	✓	✓	✓	✓	✓	29.63	✓	1342	1346	✓	29.68	1	2 nd run, collect MW-492-065 VOAs, Metals, Anions, Cr6+ NTUs = 34.2
3	✓	✓	✓	✓	✓	✓	29.64	✓	1402	1405	✓	29.65	1	3 rd run, ClO ₄ , final parameters
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: Press. outside MP casing = 47.23 psia Total Volume: 3 F2



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Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-22 Depth: 329 ft Date: 5-27-99
 Well Name: MW-22 Sampling Zone No.: 2 Starting Time: 1215 Finishing Time: 1215 ~~1315~~
 Technicians J. Brenner + M. Hunt
 Water Level Inside MP Casing (Beginning of Session) 66.48 psia (End of Session) 66.58 psia

Run No.	Surface Function Checks					Position Sampler	Surface Collection Checks							Comments
	Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Deactivate Set Arm Locate Port	Water Level in MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level in MP (ft) Remove Tape	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	66.48	✓	1219	1222	✓	66.56	1	1st run, initial parameters, NTU's = 4.50
2	✓	✓	✓	✓	✓	✓	66.47	✓	1238	1241	✓	66.56	1	2nd run, collect MW-992-066 VOAs, Metals, Anions, Cr6+
3	✓	✓	✓	✓	✓	✓	66.40	✓	1258	1301	✓	66.58	1	3rd run, Cldy, final parameters
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: Press. outside MP casing = 81.65 psia

Total Volume: 3 ^{F2}



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Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-22 Depth: 389 ft Date: 5-27-99Well Name: MW-22 Sampling Zone No.: 3 Starting Time: 1105 Finishing Time: 1210Technicians J. Brenner + M. HuntWater Level Inside MP Casing (Beginning of Session) 92.60 psia (End of Session) 92.58 psia

Run No.	Surface Function Checks					Position Sampler	Surface Collection Checks							Comments
	Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Deactivate Set Arm Locate Port	Water Level in MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level in MP (ft) Remove Tape	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	92.60	✓	1109	1112	✓	92.63	1	1st run, initial parameters, NTU's = 3.68
2	✓	✓	✓	✓	✓	✓	92.58	✓	1130	1132	✓	92.61	1	2nd run, collect MW-992-067 VOCs, Metals, Anions, Cr 6+
3	✓	✓	✓	✓	✓	✓	92.50	✓	1153	1156	✓	92.58	1	3rd run, ClO ₄ , final parameters
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: Press. outside MP casing = 107.69 psiaTotal Volume: 3 F2



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Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-22 Depth: 467 ft Date: 5-27-99
Well Name: MW-22 Sampling Zone No.: 4 Starting Time: 0955 Finishing Time: 1100
Technicians: J. Brenner + M. Hunt
Water Level Inside MP Casing (Beginning of Session) 126.44 psia (End of Session) 126.44 psia

Run No.	Surface Function Checks					Position Sampler	Surface Collection Checks							Comments
	Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Deactivate Set Arm Locate Port	Water Level in MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level in MP (ft) Remove Tape	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	126.44	✓	1000	1002	✓	126.46	1	1st run, initial parameters, NTU's =
2	✓	✓	✓	✓	✓	✓	126.42	✓	1022	1025	✓	126.44	1	Collect MW-992-068 VOCs, Metals, Anions, Cr ⁶⁺
3	✓	✓	✓	✓	✓	✓	126.39	✓	1046	1048	✓	126.44	1	3rd run, ClO ₄ , final parameters
4	~~✓~~													
5														
6														
7														
8														
9														
10														
11														
12														

Comments: Press. outside MP casing = 134.31 psiaTotal Volume: 3 ^{F2}



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Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-22 Depth: 588 ft Date: 5-27-99Well Name: MW-22 Sampling Zone No.: 5 Starting Time: 823 Finishing Time: 0950Technicians J. Brenner + M. HuntWater Level Inside MP Casing (Beginning of Session) 178.91 psia (End of Session) 178.91 psia

Run No.	Surface Function Checks					Position Sampler	Surface Collection Checks							Comments
	Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Deactivate Set Arm Locate Port	Water Level in MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level in MP (ft) Remove Tape	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	178.91	✓	0836	0838	✓	178.88	1	1 st run, initial parameters, NTU's = 4.71
2	✓	✓	✓	✓	✓	✓	178.89	✓	0906	0908	✓	178.89	1	2 nd run, collect MW-992-069 VOCs, Metals, Anions, Cr6+
3	✓	✓	✓	✓	✓	✓	178.91	✓	0933	0935	✓	178.91	1	3 rd run, ClO ₄ , final parameters
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: Press. outside MP casing = 182.27 psiaTotal Volume: 3 ^{F2}



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Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-23 Depth: 174 Date: 5/26/99

Well Name: MW-23 Sampling Zone No.: 1 Starting Time: 1315 Finishing Time: 1405

Technicians J. BRENNER, M. HUNT, I. MAYES

Water Level Inside MP Casing (Beginning of Session) 24.37 psia (End of Session) 24.60 psia

Run No.	Surface Function Checks					Position Sampler	Surface Collection Checks							Comments
	Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Deactivate Set Arm Locate Port	Water Level in MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level in MP (ft) Remove Tape	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	24.37	✓	1313	1317	✓	24.57	1	1 st run, initial parameters, NTUs = 389
2	✓	✓	✓	✓	✓	✓	24.58	✓	1330	1334	✓	24.70	1	2 nd run, collect MW-992-070 VOCs, Metals, Anions, Cr6+
3	✓	✓	✓	✓	✓	✓	24.45	✓	1348	1353	✓	24.60	1	3 rd run, ClO ₄ , final parameters
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: PRESS. OUTSIDE MP CASING = 45.50 PSIA Total Volume: 3 ^{F2}



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Groundwater Sampling Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-23 Depth: 254 Date: 5/26/99
Well Name: MW-23 Sampling Zone No.: 2 Starting Time: 1215 Finishing Time: 1310
Technicians: J. BRENNER, M. HUNT, I. MAYES
Water Level Inside MP Casing (Beginning of Session) 59.25 psia (End of Session) 59.30 psia

Run No.	Surface Function Checks					Position Sampler	Surface Collection Checks							Comments
	Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Deactivate Set Arm Locate Port	Water Level in MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level in MP (ft) Remove Tape	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	59.25	✓	1215	1218	✓	59.33	1	1 st run, initial parameters, NTUs = 0.85
2	✓	✓	✓	✓	✓	✓	59.27	✓	1231	1234	✓	59.35	1	2 nd run, collect MW-23-071 VOCs, Metals, Anions, Cr6+
3	✓	✓	✓	✓	✓	✓	59.23	✓	1250	1253	✓	59.30	1	3 rd run, ClO ₂ , final parameters
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: PRESS. OUTSIDE MP CASING 77.12 (PSIA)Total Volume: 3 F2



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Groundwater Sampling Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-23 Depth: 319 Date: 5/26/99
Well Name: MW-23 Sampling Zone No.: 3 Starting Time: 1120 Finishing Time: 1210
Technicians: J. BRENNER, M. HUNT, I. MAYES
Water Level Inside MP Casing (Beginning of Session) 87.54 psia (End of Session) 87.57 psia

Run No.	Surface Function Checks					Position Sampler	Surface Collection Checks							Comments
	Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Deactivate Set Arm Locate Port	Water Level in MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level in MP (ft) Remove Tape	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	87.54	✓	1118	1120	✓	87.57	1	1 st run, initial parameters, NTUs = 7.5%
2	✓	✓	✓	✓	✓	✓	87.55	✓	1135	1138	✓	87.57	1	2 nd run, Collect MW-992-072 VOCs, Metals, Anions
3	✓	✓	✓	✓	✓	✓	87.49	✓	1155	1157	✓	87.57	1	3 rd run, Cr ⁶⁺ , ClO ₄ , final parameters
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: PRESS. OUTSIDE MP CASING = 104.88 PSIA Total Volume: 3 ^{F2}



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Groundwater Sampling Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-23 Depth: 445 Date: 5/26/99

Well Name: MW-23 Sampling Zone No.: 4 Starting Time: 1010 Finishing Time: 1115

Technicians: J. BRENNER, M. HUNT, I. MATEO

Water Level Inside MP Casing (Beginning of Session) 142.16 psia (End of Session) 142.16 psia

Run No.	Surface Function Checks					Position Sampler	Surface Collection Checks							Comments
	Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Deactivate Set Arm Locate Port	Water Level In MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level In MP (ft) Remove Tape	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	142.16	✓	1010	1012	✓	142.19	1	1st run, initial parameters NTUs = 1.18
2	✓	✓	✓	✓	✓	✓	142.16	✓	1032	1034	✓	142.19	21	2nd run, collect MW-992-073 VOCs, Metals, Anions, Cr & Pb
3	✓	✓	✓	✓	✓	✓	142.12	✓	1055	1057	✓	142.16	1	3rd run, Cld, final parameters
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: PRESS. OUTSIDE MP CASING = 150.60 PSIA Total Volume: 3 F2



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Groundwater Sampling Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-23 Depth: 542 Date: 5/26/99
 Well Name: MW-23 Sampling Zone No.: S Starting Time: 0835 Finishing Time: 1005
 Technicians: J. Brenner, MAUNT, I. MAYES
 Water Level Inside MP Casing (Beginning of Session) 184.31 psia (End of Session) 184.25 psia

Run No.	Surface Function Checks					Position Sampler	Surface Collection Checks							Comments
	Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Deactivate Set Arm Locate Port	Water Level in MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level in MP (ft) Remove Tape	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	184.31	✓	0850	0853	✓	184.30	1.0	1st run, initial parameters, NTU's = 2.41
2	✓	✓	✓	✓	✓	✓	184.27	✓	0915	0918	✓	184.30	1.0	2nd run, collect MW-992-074 VOCs, Metals, Anions, Cr 6+
3	✓	✓	✓	✓	✓	✓	184.25	✓	0942	0945	✓	184.25	1.0	3rd run, final parameters
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: PRESS. OUTSIDE MP CASING = 192.68 PSIA Total Volume: 3 F2



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Groundwater Sampling Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-24 MTH Depth: 279 ft Date: 6-3-99
 Well Name: MW-24 Sampling Zone No.: 1 Starting Time: 0950 1330 Finishing Time: 1450
 Technicians M. Hunt, J. Brenner, + M. Chin
 Water Level Inside MP Casing (Beginning of Session) 33.82 psia (End of Session) 33.85 psia

Run No.	Surface Function Checks					Position Sampler	Surface Collection Checks							Comments
	Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Deactivate Set Arm Locate Port	Water Level In MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level in MP (ft) Remove Tape	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	33.82	✓	1336	1340	✓	33.85	1	<u>MTH</u> 4.30 1st run, initial parameters, <u>NTUs = 5.83</u>
2	✓	✓	✓	✓	✓	✓	33.85	✓	1354	1357	✓	33.87	1	2nd run, collect MW-992-075 VOAs, 1,4 Dioxane
3	✓	✓	✓	✓	✓	✓	33.85	✓	1414	1417	✓	33.85	1	3rd run, collect MW-992-075 Metals, Anions
4	✓	✓	✓	✓	✓	✓	33.85	✓	1434	1438	✓	33.85	1	4th run, collect MW-992-075 Cr6+, ClO4, final parameters
5														
6														
7														
8														
9														
10														
11														
12														

Comments: Press. outside MP casing = 51.35 psia

Total Volume: 34 MTH ^{F2}



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Groundwater Sampling Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-24 Depth: 373 ft. Date: 6-3-99
 Well Name: MW-24 Sampling Zone No.: 2 Starting Time: 1220 Finishing Time: 1325
 Technicians: M. Hunt, J. Brenner, + M. Chin
 Water Level Inside MP Casing (Beginning of Session) 74.55 psia (End of Session) 74.55 psia

Run No.	Surface Function Checks					Position Sampler	Surface Collection Checks							Comments
	Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Deactivate Set Arm Locate Port	Water Level in MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level in MP (ft) Remove Tape	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	74.55	✓	1226	~~1233~~ 1230	✓	74.55	1	1 st run, initial parameters, NTU's <u>15.4</u>
2	✓	✓	✓	✓	✓	✓	74.55	✓	1250	1254	✓	74.57	1	2 nd run, collect MW-992-076 2 VOA's, Metals
3	✓	✓	✓	✓	✓	✓	74.45	✓	1315	1318	✓	74.55	1	3 rd run, Anions, Cat, Cl, final parameters
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: Press. outside MP casing = 88.04 psia Total Volume: 3 ^{F2}



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Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-24 Depth: 435 ft Date: 6-3-99

Well Name: MW-24 Sampling Zone No.: 3 Starting Time: 1110 Finishing Time: 1215

Technicians M. Hunt, J. Brenner, & M. Chin

Water Level Inside MP Casing (Beginning of Session) 101.36 psia (End of Session) 101.43 psia

Run No.	Surface Function Checks					Position Sampler	Surface Collection Checks							Comments
	Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Deactivate Set Arm Locate Port	Water Level in MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level in MP (ft) Remove Tape	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	101.36	✓	1117	1119	✓	101.38	1	1 st run, initial parameters, NTUs=27.2
2	✓	✓	✓	✓	✓	✓	101.40	✓	1139	1142	✓	101.38	1.0	2 nd run, collect MW-492-077 ZVCS, METALS, ANIONS, C ₆ H ₆
3	✓	✓	✓	✓	✓	✓	101.40	✓	1202	1205	✓	101.43	1	3 rd run, C ₆ H ₆ , final parameters
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: Press. outside MP casing = 113.16 psia Total Volume: 3 F2



FOSTER WHEELER ENVIRONMENTAL CORPORATION

Page 1 of

Groundwater Sampling Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-24 Depth: 554 ft Date: 6-3-99
Well Name: MW-24 Sampling Zone No.: 4 Starting Time: 0950 Finishing Time: 1105
Technicians M. Hunt, J. Brenner, + M. Chin
Water Level Inside MP Casing (Beginning of Session) 152.99 psia (End of Session) 152.95 psia

Run No.	Surface Function Checks					Position Sampler	Surface Collection Checks							Comments
	Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Contalner	Valve Closed	Deactivate Set Arm Locate Port	Water Level in MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level in MP (ft) Remove Tape	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	152.99	✓	0956	0958	✓	153.02	1	1 st run, initial parameters, NTUs = 10.00
2	✓	✓	✓	✓	✓	✓	153.00	✓	1023	1025	✓	152.97	1	2 nd run, collect MW-992-078 VOAc, Metals, Anions, Cr 6+
3	✓	✓	✓	✓	✓	✓	152.97	✓	1052	1054	✓	152.95	1	3 rd run, Alky, final parameters
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: Press. outside MP casing = 154.24 psiaTotal Volume: 3 F2



FOSTER WHEELER ENVIRONMENTAL CORPORATION

Page 1 of

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-24 Depth: 678 ft Date: 6-3-99

Well Name: MW-24 Sampling Zone No.: 5 Starting Time: 0820 Finishing Time: 0945

Technicians M. Hunt, J. Brenner, + M. Chin

Water Level Inside MP Casing (Beginning of Session) 206.75 psia (End of Session) 206.67 psia

Run No.	Surface Function Checks					Position Sampler	Surface Collection Checks							Comments
	Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Deactivate Set Arm Locate Port	Water Level in MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level in MP (ft) Remove Tape	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	206.75	✓	0831	0833	✓	206.74	1	1 st run, initial parameters, NTUs=5.80
2	✓	✓	✓	✓	✓	✓	206.66	✓	0859	0901	✓	206.72	1	2 nd run, collect MW-992-079 VOAs, Metals, Anions, Cr6+
3	✓	✓	✓	✓	✓	✓	206.67	✓	0928	0930	✓	206.67	1	3 rd run, Cldy, final parameters
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: Press. outside MP casing = 198.61 psia Total Volume: 3 F2

APPENDIX C
FIELD INSTRUMENT CALIBRATION FORMS

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL
Standardization by: J. BRENNER Date: 5/14/99
Instrument Manufacturer: HF-SCIENTIFIC Model: DRT-1SC2
Serial Number: 10349 Calibration Date: 5/14/99

STANDARDIZATION

Time: 1245 Scale: 10 Zero: YES Stray Light: N/A
Standard NTU: 0.02 Reading: 0.02
Standard NTU: _____ Reading: _____

Time: 1440 Scale: 10 Zero: YES Stray Light: N/A
Standard NTU: 0.02 Reading: 0.02
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Comments: _____

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL
Standardization by: J. BRENNER Date: 5/17/99
Instrument Manufacturer: HF SCIENTIFIC Model: DRT-15CE
Serial Number: 10349 Calibration Date: 5/17/99

STANDARDIZATION

Time: 0850 Scale: 10 Zero: YES Stray Light: N/A
Standard NTU: 0.02 Reading: 0.04
Standard NTU: _____ Reading: _____

Time: 1545 Scale: 10 Zero: YES Stray Light: N/A
Standard NTU: 0.02 Reading: 0.02
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Comments: _____

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL
Standardization by: T. Turpin-Keasler Date: 5/18/99
Instrument Manufacturer: HF Scientific Model: PRT-ISC6
Serial Number: 10347 Calibration Date: 5/13/99

STANDARDIZATION

Time: 0750 Scale: 10 Zero: yes Stray Light: N/A
Standard NTU: 0.02 Reading: 0.02
Standard NTU: _____ Reading: _____

Time: 1450 Scale: 10 Zero: Yes Stray Light: N/A
Standard NTU: 0.02 Reading: 0.02
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Comments: _____

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: PL
Standardization by: J. Brenner Date: 5/19/99
Instrument Manufacturer: HE SCIENTIFIC Model: DM-15CE
Serial Number: 10349 Calibration Date: 5/19/99

STANDARDIZATION

Time: 0745 Scale: 10 Zero: YES Stray Light: N/A
Standard NTU: 0.02 Reading: 0.02
Standard NTU: _____ Reading: _____

Time: 1440 Scale: 10 Zero: Yes Stray Light: N/A
Standard NTU: 0.02 Reading: 0.02
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Comments: _____

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL
Standardization by: Mathew Hunt Date: 5-20-99
Instrument Manufacturer: HF Scientific Model: DRT-15CE
Serial Number: 10349 Calibration Date: 5-20-99

STANDARDIZATION

Time: 0745 Scale: 10 Zero: Yes Stray Light: N/A
Standard NTU: 0.02 Reading: 0.02
Standard NTU: _____ Reading: _____

Time: 1455 Scale: 10 Zero: Yes Stray Light: N/A
Standard NTU: 0.02 Reading: 0.02
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Comments: _____

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL
Standardization by: Mathew Hunt Date: 5-21-99
Instrument Manufacturer: HF Scientific Model: DRT-15CE
Serial Number: 10349 Calibration Date: 5-21-99

STANDARDIZATION

Time: 0750 Scale: 10 Zero: Yes Stray Light: N/A
Standard NTU: 0.02 Reading: 0.02
Standard NTU: _____ Reading: _____

Time: 1305 Scale: 10 Zero: Yes Stray Light: N/A
Standard NTU: 0.02 Reading: 0.02
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Comments: _____

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL
Standardization by: Mathew Hunt Date: 5-24-99
Instrument Manufacturer: HF Scientific Model: DRT-15CE
Serial Number: 10349 Calibration Date: 5-24-99

STANDARDIZATION

Time: 0740 Scale: 10 Zero: Yes Stray Light: N/A
Standard NTU: 0.02 Reading: 0.02
Standard NTU: _____ Reading: _____

Time: 1335 Scale: 10 Zero: Yes Stray Light: N/A
Standard NTU: 0.02 Reading: 0.02
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Comments: _____

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL
Standardization by: Mathew Hunt Date: 5-25-99
Instrument Manufacturer: HFS Scientific Model: DRT-15CE
Serial Number: 10349 Calibration Date: 5-25-99

STANDARDIZATION

Time: 0750 Scale: 10 Zero: Yes Stray Light: N/A
Standard NTU: 0.02 Reading: 0.02
Standard NTU: _____ Reading: _____

Time: 1630 Scale: 10 Zero: Yes Stray Light: N/A
Standard NTU: 0.02 Reading: 0.02
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Comments: _____

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL
Standardization by: Mathew Hunt Date: 5-26-99
Instrument Manufacturer: HF Scientific Model: DRT-15CE
Serial Number: 10349 Calibration Date: 5-26-99

STANDARDIZATION

Time: 0755 Scale: 10 Zero: Yes Stray Light: N/A
Standard NTU: 0.02 Reading: 0.02
Standard NTU: _____ Reading: _____

Time: 1415 Scale: 10 Zero: Yes Stray Light: N/A
Standard NTU: 0.02 Reading: 0.02
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Comments: _____

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: IPL
Standardization by: Matthew Hunt Date: 5-27-99
Instrument Manufacturer: HF Scientific Model: DRT-15CE
Serial Number: 10349 Calibration Date: 5-27-99

STANDARDIZATION

Time: 0750 Scale: 10 Zero: Yes Stray Light: N/A
Standard NTU: 0.02 Reading: 0.02
Standard NTU: _____ Reading: _____

Time: 1430 Scale: 10 Zero: Yes Stray Light: N/A
Standard NTU: 0.02 Reading: 0.02
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Comments: _____

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL
Standardization by: Mathew Hunt Date: 5-28-99
Instrument Manufacturer: HF Scientific Model: DRT-15CE
Serial Number: 10349 Calibration Date: 5-28-99

STANDARDIZATION

Time: 0735 Scale: 10 Zero: Yes Stray Light: N/A
Standard NTU: 0.02 Reading: 0.02
Standard NTU: ~~0.02~~ Reading: ~~0.02~~

Time: 1245 Scale: 10 Zero: Yes Stray Light: N/A
Standard NTU: 0.02 Reading: 0.02
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Comments: _____

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL Date: 6/1/99 (MJA)
Standardization by: Matthew Hunt Date: 5/28/99
Instrument Manufacturer: H F SCIENTIFIC Model: D2T-1SC
Serial Number: 10349 Calibration Date: 5/28/99

STANDARDIZATION

Time: 0745 Scale: 10 Zero: Yes Stray Light: —
Standard NTU: 0.02 Reading: 0.02
Standard NTU: _____ Reading: _____

Time: 1325 Scale: 10 Zero: Yes Stray Light: N/A
Standard NTU: 0.02 Reading: 0.02
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Comments: _____

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL
Standardization by: Matthew Hunt Date: 6-2-99
Instrument Manufacturer: HF Scientific Model: DRT-15CE
Serial Number: 10349 Calibration Date: 6-2-99

STANDARDIZATION

Time: 0730 Scale: 10 Zero: Yes Stray Light: N/A
Standard NTU: 0.02 Reading: 0.02
Standard NTU: _____ Reading: _____

Time: 1425 Scale: 10 Zero: Yes Stray Light: N/A
Standard NTU: 0.02 Reading: 0.02
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Comments: _____

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL
Standardization by: Matthew Hunt Date: 6-3-99
Instrument Manufacturer: HF Scientific Model: DRT-15CE
Serial Number: 10349 Calibration Date: 6-3-99

STANDARDIZATION

Time: 0750 Scale: 10 Zero: Yes Stray Light: N/A
Standard NTU: 0.02 Reading: 0.02
Standard NTU: _____ Reading: _____

Time: 1500 Scale: 10 Zero: Yes Stray Light: N/A
Standard NTU: 0.02 Reading: 0.02
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Comments: _____

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL
Standardization by: Matthew Hunt Date: 6-4-99
Instrument Manufacturer: HF Scientific Model: DRT-15CE
Serial Number: 10349 Calibration Date: 6-4-99

STANDARDIZATION

Time: 0735 Scale: 10 Zero: Yes Stray Light: N/A
Standard NTU: 0.02 Reading: 0.02
Standard NTU: _____ Reading: _____

Time: 1420 Scale: 10 Zero: Yes Stray Light: N/A
Standard NTU: 0.02 Reading: 0.02
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Comments: _____

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL
Standardization by: J. BRENNER Date: 6/7/99
Instrument Manufacturer: H F SCIENTIFIC Model: DRT-1505
Serial Number: 10349 Calibration Date: 6/7/99

STANDARDIZATION

Time: 0845 Scale: 10 Zero: YES Stray Light: N/A
Standard NTU: 0.02 Reading: 0.02
Standard NTU: _____ Reading: _____

Time: 1520 Scale: 10 Zero: Yes Stray Light: N/A
Standard NTU: 0.02 Reading: 0.02
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Time: _____ Scale: _____ Zero: _____ Stray Light: _____
Standard NTU: _____ Reading: _____
Standard NTU: _____ Reading: _____

Comments: _____

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL
Standardization by: Mathew Hunt Date: 6-8-99
Instrument Manufacturer: Horiba Model: Horiba U-10
Serial Number: 14007 Calibration Date: 6-8-99

STANDARDIZATION

Time: 0800 Scale: — Zero: Yes Stray Light: —
Standard NTU: 0 Reading: 0
Standard NTU: — Reading: —

Time: 1133 Scale: — Zero: Yes Stray Light: —
Standard NTU: 0 Reading: 0
Standard NTU: — Reading: —

Time: — Scale: — Zero: — Stray Light: —
Standard NTU: — Reading: —
Standard NTU: — Reading: —

Time: — Scale: — Zero: — Stray Light: —
Standard NTU: — Reading: —
Standard NTU: — Reading: —

Time: — Scale: — Zero: — Stray Light: —
Standard NTU: — Reading: —
Standard NTU: — Reading: —

Time: — Scale: — Zero: — Stray Light: —
Standard NTU: — Reading: —
Standard NTU: — Reading: —

Time: — Scale: — Zero: — Stray Light: —
Standard NTU: — Reading: —
Standard NTU: — Reading: —

Comments: —
—
—

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
Calibration by: J. BRENNER Date: 5/14/99
Instrument Manufacturer: YSI Model: 3500
Serial Number: 92B036739
pH Probe Manufacturer: YSI Model: 3530
Serial Number: 98F813792
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 921757441
Buffer Solution Manufacturer: CALIBRE
Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 7/2000 pH 10.01: 9/2000

INSTRUMENTATION CHECK-OUT

Time: 1245 Battery Condition: GOOD
Instrument Readings with Shorting Plug in, mV: — Temperature: 7.00 pH: 7.0 ISO: —
Reference Chamber Solution Changed?: ✓
pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 1245 Slope: N/A Temperature: 24.1
Response to Low Buffer: 7.00 Response to High Buffer: 10.0
Time: 1440 Slope: N/A Temperature: 28.7
Response to Low Buffer: 7.00 Response to High Buffer: 10.0
Time: — Slope: — Temperature: —
Response to Low Buffer: — Response to High Buffer: —

Comments: —
—
—

Calibrate to Accuracy of ± 0.05 pH Units
Slope Must Be Between 80 - 110%

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
Calibration by: J. BRENNER Date: 5/17/99
Instrument Manufacturer: YSI Model: 3500
Serial Number: 923036734
pH Probe Manufacturer: YSI Model: 3530
Serial Number: 95F813792
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 92M57441
Buffer Solution Manufacturer: CALITECH
Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 7/2000 pH 10.01: 9/2000

INSTRUMENTATION CHECK-OUT

Time: 0850 Battery Condition: GOOD
Instrument Readings with Shorting Plug in, mV: — Temperature: 21.4 pH: 7.00 ISO: —
Reference Chamber Solution Changed?: ✓
pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0850 Slope: N/A Temperature: 15.6
Response to Low Buffer: 7.00 Response to High Buffer: 10.0
Time: 1545 Slope: N/A Temperature: 23.7
Response to Low Buffer: 7.00 Response to High Buffer: 10.0
Time: — Slope: — Temperature: —
Response to Low Buffer: — Response to High Buffer: —

Comments: —
—
—

Calibrate to Accuracy of ± 0.05 pH Units
Slope Must Be Between 80 - 110%

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
Calibration by: Tonia Turpin-Kewler Date: 5/18/93
Instrument Manufacturer: YSI Model: 3500
Serial Number: 92B036734
pH Probe Manufacturer: YSI Model: 3530
Serial Number: 98F813792
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 92M57441
Buffer Solution Manufacturer: CALITECH
Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 7/2000 pH 10.01: 9/2000

INSTRUMENTATION CHECK-OUT

Time: 0423:050 Battery Condition: Good
Instrument Readings with Shorting Plug in, mV: 001 Temperature: 14.9 pH: 7.0 ISO: —
Reference Chamber Solution Changed?: ✓
pH Probe Condition: Good

FIELD CALIBRATION

Time: 7:12:07.50 Slope: N/A Temperature: 14.0
 Response to Low Buffer: 7.00 Response to High Buffer: 10.0
 Time: 14:50 Slope: N/A Temperature: 28.9
 Response to Low Buffer: 7.00 Response to High Buffer: 10.00
 Time: _____ Slope: _____ Temperature: _____
 Response to Low Buffer: _____ Response to High Buffer: _____

Comments: _____

Calibrate to Accuracy of ± 0.05 pH Units
Slope Must Be Between 80 - 110%

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
Calibration by: J. BRENNER Date: 5/19/99
Instrument Manufacturer: YSI Model: 3500
Serial Number: 928036734
pH Probe Manufacturer: YSI Model: 3530
Serial Number: 90F 813792
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 92M57441
Buffer Solution Manufacturer: CALIFORNIA
Expiration Dates of Buffer Solutions pH 4.01: pH 7.00: 7/2000 pH 10.01: 9/2000

INSTRUMENTATION CHECK-OUT

Time: 0745 Battery Condition: Good
Instrument Readings with Shorting Plug in, mV: 001 Temperature: 15.1 pH: 7.00 ISO: —
Reference Chamber Solution Changed?: ✓
pH Probe Condition: Good

mV = 230

FIELD CALIBRATION

Time: 0745 Slope: N/A Temperature: 15.2
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: 1440 Slope: N/A Temperature: 26.9
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: Slope: Temperature:
Response to Low Buffer: Response to High Buffer:

Comments:

Calibrate to Accuracy of ± 0.05 pH Units
Slope Must Be Between 80 - 110%

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
Calibration by: Matthew Hunt Date: 5-20-99
Instrument Manufacturer: YSI Model: 3500
Serial Number: 92B036734
pH Probe Manufacturer: YSI Model: 3530
Serial Number: 98F 813792
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 92M57441
Buffer Solution Manufacturer: Calitech
Expiration Dates of Buffer Solutions pH 4.01: pH 7.00: 7/2000 pH 10.01: 9/2000

INSTRUMENTATION CHECK-OUT

Time: 0745 ^{12/14} Battery Condition: Good
Instrument Readings with Shorting Plug in, mV: 001.252 Temperature: 15.7 pH: 7.00 ISO:
Reference Chamber Solution Changed?: ☒
pH Probe Condition: Good

FIELD CALIBRATION

Time: 0745 Slope: Temperature: 14.6
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: 1455 Slope: N/A Temperature: 27.5
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: Slope: Temperature:
Response to Low Buffer: Response to High Buffer:

Comments:

Calibrate to Accuracy of ± 0.05 pH Units
Slope Must Be Between 80 - 110%

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
Calibration by: Mathew Hunt Date: 5-21-99
Instrument Manufacturer: YSI Model: 3500
Serial Number: 92B036734
pH Probe Manufacturer: YSI Model: 3530
Serial Number: 98F813792
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 92MB7441
Buffer Solution Manufacturer: Calitech
Expiration Dates of Buffer Solutions pH 4.01: pH 7.00: 7/2000 pH 10.01: 9/2000

INSTRUMENTATION CHECK-OUT

Time: 0750 Battery Condition: Good
Instrument Readings with Shorting Plug in, mV: 001 Temperature: 15.8 pH: 7.00 ISO:
Reference Chamber Solution Changed?: ☒
pH Probe Condition: Good

FIELD CALIBRATION

Time: 0750 Slope: N/A Temperature: 13.5
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: 1305 Slope: N/A Temperature: 27.1
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: Slope: Temperature:
Response to Low Buffer: Response to High Buffer:

Comments:

Calibrate to Accuracy of ± 0.05 pH Units
Slope Must Be Between 80 - 110%

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
Calibration by: Mathew Hunt Date: 5-24-99
Instrument Manufacturer: YSI Model: 3500
Serial Number: 92B036734
pH Probe Manufacturer: YSI Model: 3530
Serial Number: 98F813792
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 92M57441
Buffer Solution Manufacturer: Calitech
Expiration Dates of Buffer Solutions pH 4.01: pH 7.00: 7/2000 pH 10.01: 9/2000

INSTRUMENTATION CHECK-OUT

Time: 0740 Battery Condition: Good
Instrument Readings with Shorting Plug in, mV: 001 Temperature: 14.5 pH: 7.00 ISO:
Reference Chamber Solution Changed?: ☒
pH Probe Condition: Good

FIELD CALIBRATION

Time: 0740 Slope: Temperature: 11.6
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: 1335 Slope: N/A Temperature: 25.6
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: Slope: Temperature:
Response to Low Buffer: Response to High Buffer:

Comments:

Calibrate to Accuracy of ± 0.05 pH Units
Slope Must Be Between 80 - 110%

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
Calibration by: Mathew Hunt Date: 5-25-99
Instrument Manufacturer: YSI Model: 3500
Serial Number: 92B036734
pH Probe Manufacturer: YSI Model: 3530
Serial Number: 98F813792
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 92M57441
Buffer Solution Manufacturer: Calitech
Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 7/2000 pH 10.01: 9/2000

INSTRUMENTATION CHECK-OUT

Time: 0750 Battery Condition: Good
Instrument Readings with Shorting Plug in, mV: +001 Temperature: 15.2 pH: 7.00 ISO: —
Reference Chamber Solution Changed?: ☒
pH Probe Condition: Good

FIELD CALIBRATION

Time: 0750 Slope: — Temperature: 13.3
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: 1630 Slope: N/A Temperature: 26.7
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: — Slope: — Temperature: —
Response to Low Buffer: — Response to High Buffer: —

Comments: —
—
—

Calibrate to Accuracy of ± 0.05 pH Units
Slope Must Be Between 80 - 110%

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
Calibration by: Mathew Hunt Date: 5-26-99
Instrument Manufacturer: YSI Model: 3500
Serial Number: 92B036734
pH Probe Manufacturer: YSI Model: 3530
Serial Number: 98F813792
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 92M57441
Buffer Solution Manufacturer: Calitech
Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 7/2000 pH 10.01: 9/2000

INSTRUMENTATION CHECK-OUT

Time: 0755 Battery Condition: Good
Instrument Readings with Shorting Plug in, mV: +001 Temperature: 16.2 pH: 7.00 ISO: —
Reference Chamber Solution Changed?: ☒
pH Probe Condition: Good

FIELD CALIBRATION

Time: 0755 Slope: — Temperature: 15.4
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: 1415 Slope: N/A Temperature: 27.5
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: — Slope: — Temperature: —
Response to Low Buffer: — Response to High Buffer: —

Comments: —
—
—

Calibrate to Accuracy of ± 0.05 pH Units
Slope Must Be Between 80 - 110%

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
Calibration by: Mathew Hunt Date: 5-27-99
Instrument Manufacturer: YSI Model: 3500
Serial Number: 92B036734
pH Probe Manufacturer: YSI Model: 3530
Serial Number: 98F813792
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 92M57441
Buffer Solution Manufacturer: Calitech
Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 7/2000 pH 10.01: 9/2000

INSTRUMENTATION CHECK-OUT

Time: 0750 Battery Condition: Good
Instrument Readings with Shorting Plug in, mV: +001 Temperature: 15.4 pH: 7.00 ISO: —
Reference Chamber Solution Changed?: ☒
pH Probe Condition: Good

FIELD CALIBRATION

Time: 0750 Slope: — Temperature: 15.5
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: 1430 Slope: NTA Temperature: 27.8
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: — Slope: — Temperature: —
Response to Low Buffer: — Response to High Buffer: —

Comments: —
—
—

Calibrate to Accuracy of ± 0.05 pH Units
Slope Must Be Between 80 - 110%

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
Calibration by: Mathew Hunt Date: 5-28-99
Instrument Manufacturer: YSI Model: 3520
Serial Number: 92B036734
pH Probe Manufacturer: YSI Model: 3530
Serial Number: 98F813792
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 92M57441
Buffer Solution Manufacturer: Calitech
Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 7/2000 pH 10.01: 9/2000

INSTRUMENTATION CHECK-OUT

Time: 0735 Battery Condition: Good
Instrument Readings with Shorting Plug in, mV: +001 Temperature: 17.5 pH: 7.00 ISO: —
Reference Chamber Solution Changed?: ☒
pH Probe Condition: Good

FIELD CALIBRATION

Time: 0735 Slope: — Temperature: 17.5 16.3
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: 1245 Slope: — Temperature: 20.0
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: — Slope: — Temperature: —
Response to Low Buffer: — Response to High Buffer: —

Comments: —
—
—

Calibrate to Accuracy of ± 0.05 pH Units
Slope Must Be Between 80 - 110%

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL Date: 6/1/99 MJA
Calibration by: Mathew Hunt Date: 5/28/99
Instrument Manufacturer: YSI Model: 3500
Serial Number: 92 B036734
pH Probe Manufacturer: YSI Model: 3530
Serial Number: 98F81372
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 92M57441
Buffer Solution Manufacturer: CALITECH
Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 7/2000 pH 10.01: 9/2000

INSTRUMENTATION CHECK-OUT

Time: 0745 Battery Condition: Good
Instrument Readings with Shorting Plug in, mV: MJA +001 Temperature: 12.4 pH: 7.00 ISO: —
Reference Chamber Solution Changed?: ✓
pH Probe Condition: Good

FIELD CALIBRATION

Time: 0745 Slope: — Temperature: 10.8
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: 1325 Slope: N/A Temperature: 25.2
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: — Slope: — Temperature: —
Response to Low Buffer: — Response to High Buffer: —

Comments: —
—
—

Calibrate to Accuracy of ± 0.05 pH Units
Slope Must Be Between 80 - 110%

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
Calibration by: Mathew Hunt Date: 6-2-99
Instrument Manufacturer: YSI Model: 3500
Serial Number: 92B036734
pH Probe Manufacturer: YSI Model: 3530
Serial Number: 98F813792
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 92M57441
Buffer Solution Manufacturer: Calitech
Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 7/2000 pH 10.01: 9/2000

INSTRUMENTATION CHECK-OUT

Time: 0730 Battery Condition: Good
Instrument Readings with Shorting Plug in, mV: +001 Temperature: 14.0 pH: 7.00 ISO: —
Reference Chamber Solution Changed?: ✓
pH Probe Condition: Good

FIELD CALIBRATION

Time: 0730 Slope: — Temperature: 12.6
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: 1425 Slope: N/A Temperature: 25.8
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: — Slope: — Temperature: —
Response to Low Buffer: — Response to High Buffer: —

Comments: —
—
—

Calibrate to Accuracy of ± 0.05 pH Units
Slope Must Be Between 80 - 110%

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
Calibration by: Matthew Hunt Date: 6-3-99
Instrument Manufacturer: YSI Model: 3500
Serial Number: 92B 036734
pH Probe Manufacturer: YSI Model: 3530
Serial Number: 98F 813792
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 92M 57441
Buffer Solution Manufacturer: Calitech
Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 7/2000 pH 10.01: 9/2000

INSTRUMENTATION CHECK-OUT

Time: 0750 Battery Condition: Good
Instrument Readings with Shorting Plug in, mV: +001 Temperature: 11.6 pH: 7.00 ISO: —
Reference Chamber Solution Changed?: ✓
pH Probe Condition: Good

FIELD CALIBRATION

Time: 0750 Slope: — Temperature: 11.3
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: 1500 Slope: N/A Temperature: 25.9
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: — Slope: — Temperature: —
Response to Low Buffer: — Response to High Buffer: —

Comments: —
—
—

Calibrate to Accuracy of ± 0.05 pH Units
Slope Must Be Between 80 - 110%

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
Calibration by: Mathew Hunt Date: 6-4-99
Instrument Manufacturer: YSI Model: 3500
Serial Number: 92B036734
pH Probe Manufacturer: YSI Model: 3530
Serial Number: 98F813792
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 92M57441
Buffer Solution Manufacturer: Calitech
Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 7/2000 pH 10.01: 9/2000

INSTRUMENTATION CHECK-OUT

Time: 0735 Battery Condition: Good
Instrument Readings with Shorting Plug in, mV: 1001 Temperature: 10.2 pH: 7.00 ISO: —
Reference Chamber Solution Changed?: ☒
pH Probe Condition: Good

FIELD CALIBRATION

Time: 0735 Slope: — Temperature: 8.7
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: 1420 Slope: N/A Temperature: 25.1
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: — Slope: — Temperature: —
Response to Low Buffer: — Response to High Buffer: —

Comments: —
—
—

Calibrate to Accuracy of ± 0.05 pH Units
Slope Must Be Between 80 - 110%

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
Calibration by: J. BRENNER Date: 6/7/99
Instrument Manufacturer: YSI Model: 3500
Serial Number: 92B036734
pH Probe Manufacturer: YSI Model: 3530
Serial Number: 90F813792
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 92M57441
Buffer Solution Manufacturer: CALITECH
Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 7/2000 pH 10.01: 9/2000

INSTRUMENTATION CHECK-OUT

Time: 0845 Battery Condition: GOOD
Instrument Readings with Shorting Plug in, mV: 001 Temperature: 16.1 pH: 7.00 ISO: —
Reference Chamber Solution Changed?: ✓
pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0845 Slope: N/A Temperature: 14.1
 Response to Low Buffer: 7.00 Response to High Buffer: 10.0
 Time: 1520 Slope: N/A Temperature: 27.7
 Response to Low Buffer: 7.00 Response to High Buffer: 10.00
 Time: _____ Slope: _____ Temperature: _____
 Response to Low Buffer: _____ Response to High Buffer: _____

Comments: _____

Calibrate to Accuracy of ± 0.05 pH Units
Slope Must Be Between 80 - 110%

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
Calibration by: I. Mayes Date: 6/8/99
Instrument Manufacturer: YSI Model: 3500
Serial Number: 92B036734
pH Probe Manufacturer: YSI Model: 3530
Serial Number: 98F813792
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 92M57441
Buffer Solution Manufacturer: Calitech
Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 7/2000 pH 10.01: 9/2000

INSTRUMENTATION CHECK-OUT

Time: 0800 Battery Condition: good
Instrument Readings with Shorting Plug in, mV: 001 Temperature: 12.3 pH: 7.00 ISO: —
Reference Chamber Solution Changed?: ✓
pH Probe Condition: Good

FIELD CALIBRATION

Time: 0800 Slope: NA Temperature: 10.9
 Response to Low Buffer: 7:00 Response to High Buffer: 10:00
 Time: 1133 Slope: N/A Temperature: 27.3
 Response to Low Buffer: 7:00 Response to High Buffer: 10:00
 Time: _____ Slope: _____ Temperature: _____
 Response to Low Buffer: _____ Response to High Buffer: _____

Comments: _____

Calibrate to Accuracy of ± 0.05 pH Units
Slope Must Be Between 80 - 110%

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
 Calibration by: J. BRENNER Date: 5/14/99
 Instrument Manufacturer: YSI Model: 3500
 Serial Number: 92B036734
 Probe Manufacturer: YSI Model: 3520
 Serial Number: 98C0631
 Calibration Solution Manufacturer: YSI
 Solution Conductivity: 1,000 μ S/cm Solution Expiration Date: 4/2000

FIELD CALIBRATION

Time: 1245 Temperature of Solution: 23.6
 Temperature Compensated Solution Conductivity (μ S/cm)* 973
 Instrument Response to Calibration Solution: 1024
 Instrument Response within Instrument and Probe Limits of Error: ** Yes: ☒ No: ☐

Time: 1440 Temperature of Solution: 28.7
 Temperature Compensated Solution Conductivity (μ S/cm)* 1073
 Instrument Response to Calibration Solution: 1101
 Instrument Response within Instrument and Probe Limits of Error: ** Yes: ☒ No: ☐

Time: _____ Temperature of Solution: _____
 Temperature Compensated Solution Conductivity (μ S/cm)* _____
 Instrument Response to Calibration Solution: _____
 Instrument Response within Instrument and Probe Limits of Error: ** Yes: ☐ No: ☐

*The Temperature Compensated Solution Conductivity May Be Computed Using Following Equation:
 $\text{Conductivity } (\mu \text{ S/cm}) = (\text{Conductivity at } 25^\circ\text{C}) (A + BT + CT^2)$
 Where T = Temperature in $^\circ\text{C}$

And	Conductivity @ 25°C (μ S/cm)	A	B	C
	1,000	0.5407	0.0173	0.000043
	10,000	0.5538	0.0168	0.000042
	100,000	0.5825	0.0157	0.000040

**

Instrument is Calibrated if Response is:

$\pm 6\%$ of calibration solution if reading is $\leq 150 \mu\text{mhos/cm}$ on 500 scale; $\leq 1500 \mu\text{mhos/cm}$ on 5000 scale; or $\leq 15,000 \mu\text{mhos/cm}$ on 50,000 scale.
 $\pm 4.5\%$ to 6% of calibration solution if reading is > 150 and $< 300 \mu\text{mhos/cm}$ on 500 scale; > 1500 and $< 3000 \mu\text{mhos/cm}$ on 5000 scale; and $> 15,000$ and $< 30,000 \mu\text{mhos/cm}$ on 50,000 scale.
 $\pm 4.5\%$ of calibration solution if reading is $\geq 300 \mu\text{mhos/cm}$ on 500 scale; $\geq 3000 \mu\text{mhos/cm}$ on 5000 scale; and $\geq 30,000 \mu\text{mhos/cm}$ on 50,000 scale.

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
 Calibration by: J. BRENNER Date: 5/17/99
 Instrument Manufacturer: YSI Model: 3520
 Serial Number: 92B036734
 Probe Manufacturer: YSI Model: 3520
 Serial Number: 95C0631
 Calibration Solution Manufacturer: YSI
 Solution Conductivity: 1,000 μ S/cm Solution Expiration Date: 4/2000

FIELD CALIBRATION

Time: 0850 Temperature of Solution: 16.5 ^(msh)
 Temperature Compensated Solution Conductivity (μ S/cm)* 838
 Instrument Response to Calibration Solution: 1016 ^(msh) 857
 Instrument Response within Instrument and Probe Limits of Error: ** Yes: ☒ No: ☐

Time: 1545 Temperature of Solution: 29.7
 Temperature Compensated Solution Conductivity (μ S/cm)* 1092
 Instrument Response to Calibration Solution: 1114
 Instrument Response within Instrument and Probe Limits of Error: ** Yes: ☒ No: ☐

Time: _____ Temperature of Solution: _____
 Temperature Compensated Solution Conductivity (μ S/cm)* _____
 Instrument Response to Calibration Solution: _____
 Instrument Response within Instrument and Probe Limits of Error: ** Yes: ☐ No: ☐

*The Temperature Compensated Solution Conductivity May Be Computed Using Following Equation:
 Conductivity (μ S/cm) = (Conductivity at 25°C) (A + BT + CT²)
 Where T = Temperature in °C

And	Conductivity @ 25°C (μ S/cm)	A	B	C
	1,000	0.5407	0.0173	0.000043
	10,000	0.5538	0.0168	0.000042
	100,000	0.5825	0.0157	0.000040

**

Instrument is Calibrated if Response is:

±6% of calibration solution if reading is ≤ 150 μ mhos/cm on 500 scale; ≤ 1500 μ mhos/cm on 5000 scale; or ≤ 15,000 μ mhos/cm on 50,000 scale.
 ±4.5% to 6% of calibration solution if reading is > 150 and < 300 μ mhos/cm on 500 scale; > 1500 and < 3000 μ mhos/cm on 5000 scale; and > 15,000 and < 30,000 μ mhos/cm on 50,000 scale.
 ± 4.5% of calibration solution if reading is ≥ 300 μ mhos/cm on 500 scale; ≥ 3000 μ mhos/cm on 5000 scale; and ≥ 30,000 μ mhos/cm on 50,000 scale.

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
 Calibration by: T. Turpin-Keasler Date: 5/18/99
 Instrument Manufacturer: YSI Model: 3500
 Serial Number: 928036734
 Probe Manufacturer: YSI Model: 3520
 Serial Number: 9800631
 Calibration Solution Manufacturer: YSI
 Solution Conductivity: 1,000 μ S/cm Solution Expiration Date: 4/2000

FIELD CALIBRATION

Time: ~~0750~~ 0750 A13 Temperature of Solution: 14.8
 Temperature Compensated Solution Conductivity (μ S/cm)* 806
 Instrument Response to Calibration Solution: 0.831 831 mS
 Instrument Response within Instrument and Probe Limits of Error: ** Yes: ☒ No: ☐

Time: 1450 Temperature of Solution: 28.9
 Temperature Compensated Solution Conductivity (μ S/cm)* 1077
 Instrument Response to Calibration Solution: 1130
 Instrument Response within Instrument and Probe Limits of Error: ** Yes: ☒ No: ☐

Time: _____ Temperature of Solution: _____
 Temperature Compensated Solution Conductivity (μ S/cm)* _____
 Instrument Response to Calibration Solution: _____
 Instrument Response within Instrument and Probe Limits of Error: ** Yes: ☐ No: ☐
ORP CAL T = 16.0 EH = 238 mV

*The Temperature Compensated Solution Conductivity May Be Computed Using Following Equation:

$$\text{Conductivity } (\mu \text{ S/cm}) = (\text{Conductivity at } 25^\circ\text{C}) (A + BT + CT^2)$$
 Where T = Temperature in $^\circ\text{C}$

And

Conductivity @ 25°C (μ S/cm)	A	B	C
1,000	0.5407	0.0173	0.000043
10,000	0.5538	0.0168	0.000042
100,000	0.5825	0.0157	0.000040

** **Instrument is Calibrated if Response is:**
 $\pm 6\%$ of calibration solution if reading is ≤ 150 μ mhos/cm on 500 scale; ≤ 1500 μ mhos/cm on 5000 scale;
 or $\leq 15,000$ μ mhos/cm on 50,000 scale.
 $\pm 4.5\%$ to 6% of calibration solution if reading is > 150 and < 300 μ mhos/cm on 500 scale; > 1500 and
 < 3000 μ mhos/cm on 5000 scale; and $> 15,000$ and $< 30,000$ μ mhos/cm on 50,000 scale.
 $\pm 4.5\%$ of calibration solution if reading is ≥ 300 μ mhos/cm on 500 scale; ≥ 3000 μ mhos/cm on 5000
 scale; and $\geq 30,000$ μ mhos/cm on 50,000 scale.

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
 Calibration by: J. BRENNER Date: 5/19/99
 Instrument Manufacturer: YSI Model: 3500
 Serial Number: 92B036734
 Probe Manufacturer: YSI Model: 3520
 Serial Number: 98C0631
 Calibration Solution Manufacturer: YSI
 Solution Conductivity: 1,000 μ S/cm Solution Expiration Date: 4/2000

FIELD CALIBRATION

Time: 0745 Temperature of Solution: 15.2
 Temperature Compensated Solution Conductivity (μ S/cm)* 814
 Instrument Response to Calibration Solution: 842
 Instrument Response within Instrument and Probe Limits of Error: ** Yes: ☒ No: ☐
 Time: 1440 Temperature of Solution: 26.9
 Temperature Compensated Solution Conductivity (μ S/cm)* 1037
 Instrument Response to Calibration Solution: 1072
 Instrument Response within Instrument and Probe Limits of Error: ** Yes: ☒ No: ☐
 Time: _____ Temperature of Solution: _____
 Temperature Compensated Solution Conductivity (μ S/cm)* _____
 Instrument Response to Calibration Solution: _____
 Instrument Response within Instrument and Probe Limits of Error: ** Yes: ☐ No: ☐

*The Temperature Compensated Solution Conductivity May Be Computed Using Following Equation:

$$\text{Conductivity } (\mu \text{ S/cm}) = (\text{Conductivity at } 25^\circ\text{C}) (A + BT + CT^2)$$
 Where T = Temperature in $^\circ\text{C}$

And	Conductivity @ 25°C (μ S/cm)	A	B	C
	1,000	0.5407	0.0173	0.000043
	10,000	0.5538	0.0168	0.000042
	100,000	0.5825	0.0157	0.000040

**

Instrument is Calibrated if Response is:

$\pm 6\%$ of calibration solution if reading is ≤ 150 μ mhos/cm on 500 scale; ≤ 1500 μ mhos/cm on 5000 scale; or $\leq 15,000$ μ mhos/cm on 50,000 scale.
 $\pm 4.5\%$ to 6% of calibration solution if reading is > 150 and < 300 μ mhos/cm on 500 scale; > 1500 and < 3000 μ mhos/cm on 5000 scale; and $> 15,000$ and $< 30,000$ μ mhos/cm on 50,000 scale.
 $\pm 4.5\%$ of calibration solution if reading is ≥ 300 μ mhos/cm on 500 scale; ≥ 3000 μ mhos/cm on 5000 scale; and $\geq 30,000$ μ mhos/cm on 50,000 scale.

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
 Calibration by: Matthew Hunt Date: 5-20-99
 Instrument Manufacturer: YSI Model: 3500
 Serial Number: 92B036734
 Probe Manufacturer: YSI Model: 3520
 Serial Number: 98C0631
 Calibration Solution Manufacturer: YSI
 Solution Conductivity: 1000 μ S/cm Solution Expiration Date: 4/2000

FIELD CALIBRATION

Time: 0745 Temperature of Solution: 14.4
 Temperature Compensated Solution Conductivity (μ S/cm)* 799
 Instrument Response to Calibration Solution: 836 μ S/cm
 Instrument Response within Instrument and Probe Limits of Error: ** Yes: ☒ No: ☐

Time: 1455 Temperature of Solution: 27.5
 Temperature Compensated Solution Conductivity (μ S/cm)* 1049
 Instrument Response to Calibration Solution: 1085
 Instrument Response within Instrument and Probe Limits of Error: ** Yes: ☒ No: ☐

Time: _____ Temperature of Solution: _____
 Temperature Compensated Solution Conductivity (μ S/cm)* _____
 Instrument Response to Calibration Solution: _____
 Instrument Response within Instrument and Probe Limits of Error: ** Yes: ☐ No: ☐
 $E_h = 238$ mV

*The Temperature Compensated Solution Conductivity May Be Computed Using Following Equation:
 Conductivity (μ S/cm) = (Conductivity at 25°C) (A + BT + CT²)
 Where T = Temperature in °C

And

Conductivity @ 25°C (μ S/cm)	A	B	C
1,000	0.5407	0.0173	0.000043
10,000	0.5538	0.0168	0.000042
100,000	0.5825	0.0157	0.000040

** Instrument is Calibrated if Response is:
 ±6% of calibration solution if reading is ≤ 150 μ mhos/cm on 500 scale; ≤1500 μ mhos/cm on 5000 scale;
 or ≤15,000 μ mhos/cm on 50,000 scale.
 ±4.5% to 6% of calibration solution if reading is > 150 and < 300 μ mhos/cm on 500 scale; > 1500 and
 < 3000 μ mhos/cm and 5000 scale; and > 15,000 and < 30,000 μ mhos/cm on 50,000 scale.
 ± 4.5% of calibration solution if reading is ≥ 300 μ mhos/cm on 500 scale; ≥ 3000 μ mhos/cm on 5000
 scale; and ≥ 30,000 μ mhos/cm on 50,000 scale.

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
 Calibration by: Matthew Hunt Date: 5-21-99
 Instrument Manufacturer: YSI Model: 3500
 Serial Number: 92B036734
 Probe Manufacturer: YSI Model: 3520
 Serial Number: 98C0631
 Calibration Solution Manufacturer: YSI
 Solution Conductivity: 1000 MS/cm Solution Expiration Date: 4/2000

FIELD CALIBRATION

Time: 0750 Temperature of Solution: 13.6
 Temperature Compensated Solution Conductivity (μ S/cm)* 784
 Instrument Response to Calibration Solution: 803 MS/cm
 Instrument Response within Instrument and Probe Limits of Error: ** Yes: ☒ No: ☐

Time: 1305 Temperature of Solution: 27.1
 Temperature Compensated Solution Conductivity (μ S/cm)* 1041
 Instrument Response to Calibration Solution: 1090
 Instrument Response within Instrument and Probe Limits of Error: ** Yes: ☒ No: ☐

Time: _____ Temperature of Solution: _____
 Temperature Compensated Solution Conductivity (μ S/cm)* _____
 Instrument Response to Calibration Solution: _____
 Instrument Response within Instrument and Probe Limits of Error: ** Yes: _____ No: _____
 $E_h = +238$ mV

*The Temperature Compensated Solution Conductivity May Be Computed Using Following Equation:
 Conductivity (μ S/cm) = (Conductivity at 25°C) (A + BT + CT²)
 Where T = Temperature in °C

And	Conductivity @ 25°C (μ S/cm)	A	B	C
	1,000	0.5407	0.0173	0.000043
	10,000	0.5538	0.0168	0.000042
	100,000	0.5825	0.0157	0.000040

**

Instrument is Calibrated if Response is:

- ±6% of calibration solution if reading is ≤ 150 μ hos/cm on 500 scale; ≤ 1500 μ hos/cm on 5000 scale; or $\leq 15,000$ μ hos/cm on 50,000 scale.
- ±4.5% to 6% of calibration solution if reading is > 150 and < 300 μ hos/cm on 500 scale; > 1500 and < 3000 μ hos/cm on 5000 scale; and $> 15,000$ and $< 30,000$ μ hos/cm on 50,000 scale.
- ± 4.5% of calibration solution if reading is ≥ 300 μ hos/cm on 500 scale; ≥ 3000 μ hos/cm on 5000 scale; and $\geq 30,000$ μ hos/cm on 50,000 scale.

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
 Calibration by: Matthew Hunt Date: 5-24-99
 Instrument Manufacturer: YSI Model: 3500
 Serial Number: 92B036734
 Probe Manufacturer: YSI Model: 3520
 Serial Number: 98C0631
 Calibration Solution Manufacturer: YSI
 Solution Conductivity: 1000 μ S/cm Solution Expiration Date: 4/2000

FIELD CALIBRATION

Time: 0740 Temperature of Solution: 11.7
 Temperature Compensated Solution Conductivity (μ S/cm)* 776
 Instrument Response to Calibration Solution: 776 μ S/cm
 Instrument Response within Instrument and Probe Limits of Error: ** Yes: ☒ No: ☐
 Time: 1335 Temperature of Solution: 25.6
 Temperature Compensated Solution Conductivity (μ S/cm)* 1012
 Instrument Response to Calibration Solution: 1053
 Instrument Response within Instrument and Probe Limits of Error: ** Yes: ☒ No: ☐
 Time: _____ Temperature of Solution: _____
 Temperature Compensated Solution Conductivity (μ S/cm)* _____
 Instrument Response to Calibration Solution: _____
 Instrument Response within Instrument and Probe Limits of Error: ** Yes: ☐ No: ☐
 $E_h = +240mV$

*The Temperature Compensated Solution Conductivity May Be Computed Using Following Equation:
 Conductivity (μ S/cm) = (Conductivity at 25°C) (A + BT + CT²)
 Where T = Temperature in °C

And	Conductivity @ 25°C (μ S/cm)	A	B	C
	1,000	0.5407	0.0173	0.000043
	10,000	0.5538	0.0168	0.000042
	100,000	0.5825	0.0157	0.000040

** Instrument is Calibrated if Response is:
 $\pm 6\%$ of calibration solution if reading is ≤ 150 μ mhos/cm on 500 scale; ≤ 1500 μ mhos/cm on 5000 scale; or $\leq 15,000$ μ mhos/cm on 50,000 scale.
 $\pm 4.5\%$ to 6% of calibration solution if reading is > 150 and < 300 μ mhos/cm on 500 scale; > 1500 and < 3000 μ mhos/cm on 5000 scale; and $> 15,000$ and $< 30,000$ μ mhos/cm on 50,000 scale.
 $\pm 4.5\%$ of calibration solution if reading is ≥ 300 μ mhos/cm on 500 scale; ≥ 3000 μ mhos/cm on 5000 scale; and $\geq 30,000$ μ mhos/cm on 50,000 scale.

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
 Calibration by: Mathew Hunt Date: 5-25-99
 Instrument Manufacturer: YSI Model: 3500
 Serial Number: 92B036734
 Probe Manufacturer: YSI Model: 3520
 Serial Number: 98C0631
 Calibration Solution Manufacturer: YSI
 Solution Conductivity: 1000 μ S/cm Solution Expiration Date: 4/2000

FIELD CALIBRATION

Time: 0750 Temperature of Solution: 13.1 °C
 Temperature Compensated Solution Conductivity (μ S/cm)* 775
 Instrument Response to Calibration Solution: 798 μ S/cm
 Instrument Response within Instrument and Probe Limits of Error: ** Yes: ☒ No: ☐

Time: 1630 Temperature of Solution: 26.7
 Temperature Compensated Solution Conductivity (μ S/cm)* 1033
 Instrument Response to Calibration Solution: 1067
 Instrument Response within Instrument and Probe Limits of Error: ** Yes: ☒ No: ☐

Time: _____ Temperature of Solution: _____
 Temperature Compensated Solution Conductivity (μ S/cm)* _____
 Instrument Response to Calibration Solution: _____
 Instrument Response within Instrument and Probe Limits of Error: ** Yes: ☐ No: ☐

$E_h = +238$ mV

*The Temperature Compensated Solution Conductivity May Be Computed Using Following Equation:

$$\text{Conductivity } (\mu \text{ S/cm}) = (\text{Conductivity at } 25^\circ\text{C}) (A + BT + CT^2)$$

Where T = Temperature in °C

And	Conductivity @ 25°C (μ S/cm)	A	B	C
	1,000	0.5407	0.0173	0.000043
	10,000	0.5538	0.0168	0.000042
	100,000	0.5825	0.0157	0.000040

**

Instrument is Calibrated if Response is:

- ±6% of calibration solution if reading is ≤ 150 μ hos/cm on 500 scale; ≤ 1500 μ hos/cm on 5000 scale; or $\leq 15,000$ μ hos/cm on 50,000 scale.
- ±4.5% to 6% of calibration solution if reading is > 150 and < 300 μ hos/cm on 500 scale; > 1500 and < 3000 μ hos/cm on 5000 scale; and $> 15,000$ and $< 30,000$ μ hos/cm on 50,000 scale.
- ± 4.5% of calibration solution if reading is ≥ 300 μ hos/cm on 500 scale; ≥ 3000 μ hos/cm on 5000 scale; and $\geq 30,000$ μ hos/cm on 50,000 scale.

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
 Calibration by: Mathew Hunt Date: 5-26-99
 Instrument Manufacturer: VSI Model: 3500
 Serial Number: 92B036734
 Probe Manufacturer: VSI Model: 3520
 Serial Number: 98C0631
 Calibration Solution Manufacturer: VSI
 Solution Conductivity: 1000 μ S/cm Solution Expiration Date: 4/2000

FIELD CALIBRATION

Time: 0755 Temperature of Solution: 15.4
 Temperature Compensated Solution Conductivity (μ S/cm)* 817
 Instrument Response to Calibration Solution: 823 μ S/cm
 Instrument Response within Instrument and Probe Limits of Error: ** Yes: ☒ No: ☐

Time: 1415 Temperature of Solution: 27.5
 Temperature Compensated Solution Conductivity (μ S/cm)* 1049
 Instrument Response to Calibration Solution: 1089
 Instrument Response within Instrument and Probe Limits of Error: ** Yes: ☒ No: ☐

Time: _____ Temperature of Solution: _____
 Temperature Compensated Solution Conductivity (μ S/cm)* _____
 Instrument Response to Calibration Solution: _____
 Instrument Response within Instrument and Probe Limits of Error: ** Yes: ☐ No: ☐
 $E_h = +236$ mV

*The Temperature Compensated Solution Conductivity May Be Computed Using Following Equation:
 Conductivity (μ S/cm) = (Conductivity at 25°C) (A + BT + CT²)
 Where T = Temperature in °C

And	Conductivity @ 25°C (μ S/cm)	A	B	C
	1,000	0.5407	0.0173	0.000043
	10,000	0.5538	0.0168	0.000042
	100,000	0.5825	0.0157	0.000040

Instrument is Calibrated if Response is:

- ±6% of calibration solution if reading is ≤ 150 μ mhos/cm on 500 scale; ≤ 1500 μ mhos/cm on 5000 scale; or ≤ 15,000 μ mhos/cm on 50,000 scale.
- ±4.5% to 6% of calibration solution if reading is > 150 and < 300 μ mhos/cm on 500 scale; > 1500 and < 3000 μ mhos/cm on 5000 scale; and > 15,000 and < 30,000 μ mhos/cm on 50,000 scale.
- ± 4.5% of calibration solution if reading is ≥ 300 μ mhos/cm on 500 scale; ≥ 3000 μ mhos/cm on 5000 scale; and ≥ 30,000 μ mhos/cm on 50,000 scale.

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: J PL
 Calibration by: Mathew Hunt Date: 5-27-99
 Instrument Manufacturer: YSI Model: 3500
 Serial Number: 92B036734
 Probe Manufacturer: YSI Model: 3520
 Serial Number: 98C0631
 Calibration Solution Manufacturer: YSI
 Solution Conductivity: 1000 μ S/cm Solution Expiration Date: 4/2000

FIELD CALIBRATION

Time: 0750 Temperature of Solution: 15.4 °C
 Temperature Compensated Solution Conductivity (μ S/cm)* 817
 Instrument Response to Calibration Solution: 836
 Instrument Response within Instrument and Probe Limits of Error: ** Yes: ☒ No: ☐

Time: 1430 Temperature of Solution: 27.8
 Temperature Compensated Solution Conductivity (μ S/cm)* 1055
 Instrument Response to Calibration Solution: 1095
 Instrument Response within Instrument and Probe Limits of Error: ** Yes: ☒ No: ☐

Time: _____ Temperature of Solution: _____
 Temperature Compensated Solution Conductivity (μ S/cm)* _____
 Instrument Response to Calibration Solution: _____
 Instrument Response within Instrument and Probe Limits of Error: ** Yes: ☐ No: ☐
 $E_h = +235 \text{ mV}$

*The Temperature Compensated Solution Conductivity May Be Computed Using Following Equation:
 $\text{Conductivity } (\mu \text{ S/cm}) = (\text{Conductivity at } 25^\circ\text{C}) (A + BT + CT^2)$
 Where T = Temperature in °C

And	Conductivity @ 25°C (μ S/cm)	A	B	C
	1,000	0.5407	0.0173	0.000043
	10,000	0.5538	0.0168	0.000042
	100,000	0.5825	0.0157	0.000040

**

Instrument is Calibrated if Response is:

±6% of calibration solution if reading is $\leq 150 \mu\text{mhos/cm}$ on 500 scale; $\leq 1500 \mu\text{mhos/cm}$ on 5000 scale; or $\leq 15,000 \mu\text{mhos/cm}$ on 50,000 scale.
 ±4.5% to 6% of calibration solution if reading is > 150 and $< 300 \mu\text{mhos/cm}$ on 500 scale; > 1500 and $< 3000 \mu\text{mhos/cm}$ on 5000 scale; and $> 15,000$ and $< 30,000 \mu\text{mhos/cm}$ on 50,000 scale.
 ± 4.5% of calibration solution if reading is $\geq 300 \mu\text{mhos/cm}$ on 500 scale; $\geq 3000 \mu\text{mhos/cm}$ on 5000 scale; and $\geq 30,000 \mu\text{mhos/cm}$ on 50,000 scale.

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
 Calibration by: Matthew Hunt Date: 5-28-99
 Instrument Manufacturer: YSI Model: 3500
 Serial Number: 92B 036 734
 Probe Manufacturer: YSI Model: 3520
 Serial Number: 98C0631
 Calibration Solution Manufacturer: YSI
 Solution Conductivity: 1000 MS/cm Solution Expiration Date: 4/2000

FIELD CALIBRATION

Time: 0735 Temperature of Solution: 16.4 °C
 Temperature Compensated Solution Conductivity (μ S/cm)* 836
 Instrument Response to Calibration Solution: 856 MS/cm
 Instrument Response within Instrument and Probe Limits of Error: ** Yes: ☒ No: ☐

Time: 1245 Temperature of Solution: 20 °C
 Temperature Compensated Solution Conductivity (μ S/cm)* 904
 Instrument Response to Calibration Solution: 989
 Instrument Response within Instrument and Probe Limits of Error: ** Yes: ☐ No: ☒

Time: _____ Temperature of Solution: _____
 Temperature Compensated Solution Conductivity (μ S/cm)* _____
 Instrument Response to Calibration Solution: _____
 Instrument Response within Instrument and Probe Limits of Error: ** Yes: ☐ No: ☐
 $E_n = +234$ mV

*The Temperature Compensated Solution Conductivity May Be Computed Using Following Equation:
 Conductivity (μ S/cm) = (Conductivity at 25°C) (A + BT + CT²)
 Where T = Temperature in °C

And	Conductivity @ 25°C (μ S/cm)	A	B	C
	1,000	0.5407	0.0173	0.000043
	10,000	0.5538	0.0168	0.000042
	100,000	0.5825	0.0157	0.000040

** Instrument is Calibrated if Response is:

±6% of calibration solution if reading is ≤ 150 μ mhos/cm on 500 scale; ≤ 1500 μ mhos/cm on 5000 scale;
 or ≤ 15,000 μ mhos/cm on 50,000 scale.
 ±4.5% to 6% of calibration solution if reading is > 150 and < 300 μ mhos/cm on 500 scale; > 1500 and
 < 3000 μ mhos/cm and 5000 scale; and > 15,000 and < 30,000 μ mhos/cm on 50,000 scale.
 ± 4.5% of calibration solution if reading is ≥ 300 μ mhos/cm on 500 scale; ≥ 3000 μ mhos/cm on 5000
 scale; and ≥ 30,000 μ mhos/cm on 50,000 scale.

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL 6/1/99 (MJA)
 Calibration by: Matthew Hunt Date: 5/28/99
 Instrument Manufacturer: YSI Model: 3500
 Serial Number: 92B036734
 Probe Manufacturer: YSI Model: 3520
 Serial Number: 98C0631
 Calibration Solution Manufacturer: YSI
 Solution Conductivity: 1,000 μ S/cm Solution Expiration Date: 4/2000

FIELD CALIBRATION

Time: 0745 Temperature of Solution: 10.9 °C
 Temperature Compensated Solution Conductivity (μ S/cm)* 734
 Instrument Response to Calibration Solution: 751 μ S/cm
 Instrument Response within Instrument and Probe Limits of Error: ** Yes: ☒ No: ☐

Time: 1325 Temperature of Solution: 25.2
 Temperature Compensated Solution Conductivity (μ S/cm)* 1004
 Instrument Response to Calibration Solution: 1047
 Instrument Response within Instrument and Probe Limits of Error: ** Yes: ☒ No: ☐

Time: _____ Temperature of Solution: _____
 Temperature Compensated Solution Conductivity (μ S/cm)* _____
 Instrument Response to Calibration Solution: _____
 Instrument Response within Instrument and Probe Limits of Error: ** Yes: ☐ No: ☐

$E_h = +242 \text{ mV}$
(MJA)

*The Temperature Compensated Solution Conductivity May Be Computed Using Following Equation:
 Conductivity (μ S/cm) = (Conductivity at 25°C) (A + BT + CT²)
 Where T = Temperature in °C

And	Conductivity @ 25°C (μ S/cm)	A	B	C
	1,000	0.5407	0.0173	0.000043
	10,000	0.5538	0.0168	0.000042
	100,000	0.5825	0.0157	0.000040

**

Instrument is Calibrated if Response is:

- ±6% of calibration solution if reading is ≤ 150 μ mhos/cm on 500 scale; ≤ 1500 μ mhos/cm on 5000 scale; or ≤ 15,000 μ mhos/cm on 50,000 scale.
- ±4.5% to 6% of calibration solution if reading is > 150 and < 300 μ mhos/cm on 500 scale; > 1500 and < 3000 μ mhos/cm on 5000 scale; and > 15,000 and < 30,000 μ mhos/cm on 50,000 scale.
- ± 4.5% of calibration solution if reading is ≥ 300 μ mhos/cm on 500 scale; ≥ 3000 μ mhos/cm on 5000 scale; and ≥ 30,000 μ mhos/cm on 50,000 scale.

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
 Calibration by: Mathew Hunt Date: 6-2-99
 Instrument Manufacturer: YSI Model: 3500
 Serial Number: 92B036734
 Probe Manufacturer: YSI Model: 3520
 Serial Number: 98C0631
 Calibration Solution Manufacturer: YSI
 Solution Conductivity: 1000 μ S/cm Solution Expiration Date: 4/2000

FIELD CALIBRATION

Time: 0730 Temperature of Solution: 11.8°C
 Temperature Compensated Solution Conductivity (μ S/cm)* 751
 Instrument Response to Calibration Solution: 769 μ S/cm
 Instrument Response within Instrument and Probe Limits of Error: ** Yes: ☒ No: ☐

Time: 1425 Temperature of Solution: 25.8
 Temperature Compensated Solution Conductivity (μ S/cm)* 1016
 Instrument Response to Calibration Solution: 1053
 Instrument Response within Instrument and Probe Limits of Error: ** Yes: ☒ No: ☐

Time: _____ Temperature of Solution: _____
 Temperature Compensated Solution Conductivity (μ S/cm)* _____
 Instrument Response to Calibration Solution: _____
 Instrument Response within Instrument and Probe Limits of Error: ** Yes: _____ No: _____
 $E_n = +242$ mV

*The Temperature Compensated Solution Conductivity May Be Computed Using Following Equation:
 Conductivity (μ S/cm) = (Conductivity at 25°C) (A + BT + CT²)
 Where T = Temperature in °C

And	Conductivity @ 25°C (μ S/cm)	A	B	C
	1,000	0.5407	0.0173	0.000043
	10,000	0.5538	0.0168	0.000042
	100,000	0.5825	0.0157	0.000040

Instrument is Calibrated if Response is:

- ±6% of calibration solution if reading is ≤ 150 μ hos/cm on 500 scale; ≤ 1500 μ hos/cm on 5000 scale; or $\leq 15,000$ μ hos/cm on 50,000 scale.
- ±4.5% to 6% of calibration solution if reading is > 150 and < 300 μ hos/cm on 500 scale; > 1500 and < 3000 μ hos/cm on 5000 scale; and $> 15,000$ and $< 30,000$ μ hos/cm on 50,000 scale.
- ± 4.5% of calibration solution if reading is ≥ 300 μ hos/cm on 500 scale; ≥ 3000 μ hos/cm on 5000 scale; and $\geq 30,000$ μ hos/cm on 50,000 scale.

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
 Calibration by: Mathew Hunt Date: 6-3-99
 Instrument Manufacturer: YSI Model: 3500
 Serial Number: 92B036734
 Probe Manufacturer: YSI Model: 3520
 Serial Number: 98C0631
 Calibration Solution Manufacturer: YSI
 Solution Conductivity: 1000 μ S/cm Solution Expiration Date: 4/2000

FIELD CALIBRATION

Time: 0750 Temperature of Solution: 11.3 °C
 Temperature Compensated Solution Conductivity (μ S/cm)* 742
 Instrument Response to Calibration Solution: 750 μ S/cm
 Instrument Response within Instrument and Probe Limits of Error: ** Yes: ☒ No: ☐
 Time: 1500 Temperature of Solution: 25.9
 Temperature Compensated Solution Conductivity (μ S/cm)* 1018
 Instrument Response to Calibration Solution: 1058
 Instrument Response within Instrument and Probe Limits of Error: ** Yes: ☒ No: ☐
 Time: _____ Temperature of Solution: _____
 Temperature Compensated Solution Conductivity (μ S/cm)* _____
 Instrument Response to Calibration Solution: _____
 Instrument Response within Instrument and Probe Limits of Error: ** Yes: ☐ No: ☐
 $E_p = +242$ mV

*The Temperature Compensated Solution Conductivity May Be Computed Using Following Equation:

$$\text{Conductivity } (\mu \text{ S/cm}) = (\text{Conductivity at } 25^\circ\text{C}) (A + BT + CT^2)$$

Where T = Temperature in °C

And	Conductivity @ 25°C (μ S/cm)	A	B	C
	1,000	0.5407	0.0173	0.000043
	10,000	0.5538	0.0168	0.000042
	100,000	0.5825	0.0157	0.000040

**

Instrument is Calibrated if Response is:

- $\pm 6\%$ of calibration solution if reading is ≤ 150 μ hos/cm on 500 scale; ≤ 1500 μ hos/cm on 5000 scale; or $\leq 15,000$ μ hos/cm on 50,000 scale.
- $\pm 4.5\%$ to 6% of calibration solution if reading is > 150 and < 300 μ hos/cm on 500 scale; > 1500 and < 3000 μ hos/cm on 5000 scale; and $> 15,000$ and $< 30,000$ μ hos/cm on 50,000 scale.
- $\pm 4.5\%$ of calibration solution if reading is ≥ 300 μ hos/cm on 500 scale; ≥ 3000 μ hos/cm on 5000 scale; and $\geq 30,000$ μ hos/cm on 50,000 scale.

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
 Calibration by: Matthew Hunt Date: 6-4-99
 Instrument Manufacturer: YSI Model: 3500
 Serial Number: 92B036734
 Probe Manufacturer: YSI Model: 3520
 Serial Number: 98C0631
 Calibration Solution Manufacturer: YSI
 Solution Conductivity: 1000 μ S/cm Solution Expiration Date: 4/2000

FIELD CALIBRATION

Time: 0735 Temperature of Solution: 8.4°C
 Temperature Compensated Solution Conductivity (μ S/cm)* 689
 Instrument Response to Calibration Solution: 710 μ S/cm
 Instrument Response within Instrument and Probe Limits of Error: ** Yes: ☒ No: ☐
 Time: 1420 Temperature of Solution: 25.1
 Temperature Compensated Solution Conductivity (μ S/cm)* 1002
 Instrument Response to Calibration Solution: 1034
 Instrument Response within Instrument and Probe Limits of Error: ** Yes: ☒ No: ☐
 Time: _____ Temperature of Solution: _____
 Temperature Compensated Solution Conductivity (μ S/cm)* _____
 Instrument Response to Calibration Solution: _____
 Instrument Response within Instrument and Probe Limits of Error: ** Yes: _____ No: _____
 $E_h = +245$ mV

*The Temperature Compensated Solution Conductivity May Be Computed Using Following Equation:

$$\text{Conductivity } (\mu \text{ S/cm}) = (\text{Conductivity at } 25^\circ\text{C}) (A + BT + CT^2)$$

Where T = Temperature in °C

And	Conductivity @ 25°C (μ S/cm)	A	B	C
	1,000	0.5407	0.0173	0.000043
	10,000	0.5538	0.0168	0.000042
	100,000	0.5825	0.0157	0.000040

**

Instrument is Calibrated if Response is:

$\pm 6\%$ of calibration solution if reading is ≤ 150 μ mhos/cm on 500 scale; ≤ 1500 μ mhos/cm on 5000 scale; or $\leq 15,000$ μ mhos/cm on 50,000 scale.

$\pm 4.5\%$ to 6% of calibration solution if reading is > 150 and < 300 μ mhos/cm on 500 scale; > 1500 and < 3000 μ mhos/cm on 5000 scale; and $> 15,000$ and $< 30,000$ μ mhos/cm on 50,000 scale.

$\pm 4.5\%$ of calibration solution if reading is ≥ 300 μ mhos/cm on 500 scale; ≥ 3000 μ mhos/cm on 5000 scale; and $\geq 30,000$ μ mhos/cm on 50,000 scale.

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
 Calibration by: J. Brenner Date: 6/7/99
 Instrument Manufacturer: YSI Model: 3500
 Serial Number: 92 B036734
 Probe Manufacturer: YSI Model: 3520
 Serial Number: 98 C0631
 Calibration Solution Manufacturer: YSI
 Solution Conductivity: 1,000 μ S/cm Solution Expiration Date: 4/2000

FIELD CALIBRATION

Time: 0845 Temperature of Solution: 14.1
 Temperature Compensated Solution Conductivity (μ S/cm)* 793
 Instrument Response to Calibration Solution: 823
 Instrument Response within Instrument and Probe Limits of Error: ** Yes: ☒ No: ☐
 Time: 1520 Temperature of Solution: 27.7
 Temperature Compensated Solution Conductivity (μ S/cm)* 1053
 Instrument Response to Calibration Solution: 1098
 Instrument Response within Instrument and Probe Limits of Error: ** Yes: ☒ No: ☐
 Time: _____ Temperature of Solution: _____
 Temperature Compensated Solution Conductivity (μ S/cm)* _____
 Instrument Response to Calibration Solution: _____
 Instrument Response within Instrument and Probe Limits of Error: ** Yes: ☐ No: ☐

*The Temperature Compensated Solution Conductivity May Be Computed Using Following Equation:

$$\text{Conductivity } (\mu \text{ S/cm}) = (\text{Conductivity at } 25^\circ\text{C}) (A + BT + CT^2)$$

Where T = Temperature in $^\circ\text{C}$

And	Conductivity @ 25 $^\circ\text{C}$ (μ S/cm)	A	B	C
	1,000	0.5407	0.0173	0.000043
	10,000	0.5538	0.0168	0.000042
	100,000	0.5825	0.0157	0.000040

**

Instrument is Calibrated if Response is:

- $\pm 6\%$ of calibration solution if reading is ≤ 150 μ mhos/cm on 500 scale; ≤ 1500 μ mhos/cm on 5000 scale; or $\leq 15,000$ μ mhos/cm on 50,000 scale.
- $\pm 4.5\%$ to 6% of calibration solution if reading is > 150 and < 300 μ mhos/cm on 500 scale; > 1500 and < 3000 μ mhos/cm on 5000 scale; and $> 15,000$ and $< 30,000$ μ mhos/cm on 50,000 scale.
- $\pm 4.5\%$ of calibration solution if reading is ≥ 300 μ mhos/cm on 500 scale; ≥ 3000 μ mhos/cm on 5000 scale; and $\geq 30,000$ μ mhos/cm on 50,000 scale.

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
 Calibration by: I. Mayes Date: 6/8/99
 Instrument Manufacturer: YSI Model: 3500
 Serial Number: 92B036739
 Probe Manufacturer: YSI Model: 3520
 Serial Number: 98C0631
 Calibration Solution Manufacturer: YSI
 Solution Conductivity: 1,000 MS/cm Solution Expiration Date: 4/2000

FIELD CALIBRATION

Time: 8:00 Temperature of Solution: 10.9
 Temperature Compensated Solution Conductivity (μ S/cm)* ~~722~~ 734
 Instrument Response to Calibration Solution: 768
 Instrument Response within Instrument and Probe Limits of Error: ** Yes: ☒ No: ☐

Time: 1133 Temperature of Solution: 27.3
 Temperature Compensated Solution Conductivity (μ S/cm)* 1095
 Instrument Response to Calibration Solution: 1093
 Instrument Response within Instrument and Probe Limits of Error: ** Yes: ☒ No: ☐

Time: _____ Temperature of Solution: _____
 Temperature Compensated Solution Conductivity (μ S/cm)* _____
 Instrument Response to Calibration Solution: _____
 Instrument Response within Instrument and Probe Limits of Error: ** Yes: ☐ No: ☐

*The Temperature Compensated Solution Conductivity May Be Computed Using Following Equation:

$$\text{Conductivity } (\mu \text{ S/cm}) = (\text{Conductivity at } 25^{\circ}\text{C}) (A + BT + CT^2)$$
 Where T = Temperature in $^{\circ}\text{C}$

And

Conductivity @ 25°C (μ S/cm)	A	B	C
1,000	0.5407	0.0173	0.000043
10,000	0.5538	0.0168	0.000042
100,000	0.5825	0.0157	0.000040

** Instrument is Calibrated if Response is:
 ±6% of calibration solution if reading is $\leq 150 \mu\text{mhos/cm}$ on 500 scale; $\leq 1500 \mu\text{mhos/cm}$ on 5000 scale;
 or $\leq 15,000 \mu\text{mhos/cm}$ on 50,000 scale.
 ±4.5% to 6% of calibration solution if reading is > 150 and $< 300 \mu\text{mhos/cm}$ on 500 scale; > 1500 and
 $< 3000 \mu\text{mhos/cm}$ on 5000 scale; and $> 15,000$ and $< 30,000 \mu\text{mhos/cm}$ on 50,000 scale.
 ± 4.5% of calibration solution if reading is $\geq 300 \mu\text{mhos/cm}$ on 500 scale; $\geq 3000 \mu\text{mhos/cm}$ on 5000
 scale; and $\geq 30,000 \mu\text{mhos/cm}$ on 50,000 scale.

APPENDIX D

LABORATORY ANALYTICAL REPORTS
AND
CHAIN-OF-CUSTODY FORMS

ANALYTICAL RESULTS INDEX

GROUNDWATER SAMPLES

Well Number	Report Number	Sample Number	Tab Number	Date Sampled
MW-1	54959	MW-992-001	17	6/8/99
MW-3-1	54427	MW-992-002	4	5/19/99
MW-3-2	54427	MW-992-003	4	5/19/99
MW-3-3	54427	MW-992-004	4	5/19/99
MW-3-4	54427	MW-992-005	4	5/19/99
MW-3-5	54427	MW-992-006	4	5/19/99
MW-4-1	54685	MW-992-007	11	5/28/99
MW-4-2	54848	MW-992-008	14	6/3/99
MW-4-2 Dup	54848	MW-992-009	14	6/3/99
MW-4-3	54685	MW-992-010	11	5/28/99
MW-4-4	54685	MW-992-011	11	5/28/99
MW-4-5	54685	MW-992-012	11	5/28/99
MW-5	54920	MW-992-013	16	6/7/99
MW-6	54920	MW-992-014	16	6/7/99
MW-7	54879	MW-992-015	15	6/4/99
MW-8	54920	MW-992-016	16	6/7/99
MW-9	54959	MW-992-017	17	6/8/99
MW-10	54920	MW-992-018	16	6/7/99
MW-10 Dup	54920	MW-992-019	16	6/7/99
MW-11-1	54597	MW-992-020	8	5/25/99
MW-11-2	54597	MW-992-021	8	5/25/99
MW-11-3	54597	MW-992-022	8	5/25/99
MW-11-4	54597	MW-992-023	8	5/25/99
MW-11-5	54597	MW-992-024	8	5/25/99
MW-12-1	54745	MW-992-025	12	6/1/99
MW-12-2	54297	MW-992-026	1	5/14/99
MW-12-2 Dup	54297	MW-992-027	1	5/14/99
MW-12-3	54745	MW-992-028	12	6/1/99
MW-12-4	54745	MW-992-029	12	6/1/99
MW-12-5	54745	MW-992-030	12	6/1/99
MW-13	54879	MW-992-031	15	6/4/99
MW-13 Dup	54879	MW-992-032	15	6/4/99
MW-14-1	54530	MW-992-033	7	5/24/99
MW-14-2	54530	MW-992-034	7	5/24/99
MW-14-3	54530	MW-992-035	7	5/24/99
MW-14-4	54530	MW-992-036	7	5/24/99
MW-14-5	54530	MW-992-037	7	5/24/99
MW-15	55012	MW-992-038	18	6/8/99
MW-16	54879	MW-992-039	15	6/4/99
MW-17-1	54792	MW-992-040	13	6/2/99
MW-17-2	54792	MW-992-041	13	6/2/99
MW-17-3	54792	MW-992-042	13	6/2/99
MW-17-4	54792	MW-992-043	13	6/2/99
MW-17-5	54792	MW-992-044	13	6/2/99

ANALYTICAL RESULTS INDEX

GROUNDWATER SAMPLES

Well Number	Report Number	Sample Number	Tab Number	Date Sampled
MW-18-1	54352	MW-992-045	2	5/17/99
MW-18-2	54352	MW-992-046	2	5/17/99
MW-18-3	54352	MW-992-047	2	5/17/99
MW-18-4	54352	MW-992-048	2	5/17/99
MW-18-5	54352	MW-992-049	2	5/17/99
MW-19-1	54383	MW-992-050	3	5/18/99
MW-19-2	54383	MW-992-051	3	5/18/99
MW-19-3	54383	MW-992-052	3	5/18/99
MW-19-4	54383	MW-992-053	3	5/18/99
MW-19-5	54383	MW-992-054	3	5/18/99
MW-20-1	54453	MW-992-055	5	5/20/99
MW-20-2	54453	MW-992-056	5	5/20/99
MW-20-3	54453	MW-992-057	5	5/20/99
MW-20-4	54453	MW-992-058	5	5/20/99
MW-20-5	54453	MW-992-059	5	5/20/99
MW-21-1	54483	MW-992-060	6	5/21/99
MW-21-2	54483	MW-992-061	6	5/21/99
MW-21-3	54483	MW-992-062	6	5/21/99
MW-21-4	54483	MW-992-063	6	5/21/99
MW-21-5	54483	MW-992-064	6	5/21/99
MW-22-1	54654	MW-992-065	10	5/27/99
MW-22-2	54654	MW-992-066	10	5/27/99
MW-22-3	54654	MW-992-067	10	5/27/99
MW-22-4	54654	MW-992-068	10	5/27/99
MW-22-5	54654	MW-992-069	10	5/27/99
MW-23-1	54619	MW-992-070	9	5/26/99
MW-23-2	54619	MW-992-071	9	5/26/99
MW-23-3	54619	MW-992-072	9	5/26/99
MW-23-4	54619	MW-992-073	9	5/26/99
MW-23-5	54619	MW-992-074	9	5/26/99
MW-24-1	54848	MW-992-075	14	6/3/99
MW-24-2	54848	MW-992-076	14	6/3/99
MW-24-3	54848	MW-992-077	14	6/3/99
MW-24-4	54848	MW-992-078	14	6/3/99
MW-24-5	54848	MW-992-079	14	6/3/99

ANALYTICAL RESULTS INDEX

QA/QC SAMPLE BLANKS

Sample Type	Report Number	Sample Number	Tab Number	Date Sampled
TB	54297	MW-992-80	1	5/14/99
EB	54297	MW-992-81	1	5/14/99
TB	54352	MW-992-82	2	5/17/99
EB	54352	MW-992-83	2	5/17/99
TB	54383	MW-992-84	3	5/18/99
EB	54383	MW-992-85	3	5/18/99
TB	54427	MW-992-86	4	5/19/99
EB	54427	MW-992-87	4	5/19/99
EB	54453	MW-992-89	5	5/20/99
TB	54453	MW-992-90	5	5/20/99
EB	54483	MW-992-91	6	5/21/99
TB	54483	MW-992-92	6	5/21/99
EB	54530	MW-992-93	7	5/24/99
TB	54530	MW-992-94	7	5/24/99
EB	54597	MW-992-95	8	5/25/99
TB	54597	MW-992-96	8	5/25/99
EB	54619	MW-992-97	9	5/26/99
TB	54619	MW-992-98	9	5/26/99
EB	54654	MW-992-99	10	5/27/99
TB	54654	MW-992-100	10	5/27/99
EB	54685	MW-992-101	11	5/28/99
TB	54685	MW-992-102	11	5/28/99
EB	54745	MW-992-103	12	6/1/99
TB	54745	MW-992-104	12	6/1/99
EB	54792	MW-992-105	13	6/2/99
TB	54792	MW-992-106	13	6/2/99
EB	54848	MW-992-107	14	6/3/99
TB	54848	MW-992-108	14	6/3/99
TB	54879	MW-992-109	15	6/4/99
FB	54879	MW-992-200	15	6/4/99
TB	54920	MW-992-110	16	6/7/99
TB	54959	MW-992-111	17	6/8/99
TB	55012	MW-992-112	18	6/9/99

ANALYTICAL RESULTS INDEX

1,4 DIOXANE RESULTS

Well Number	Report Number	Sample Number	Tab Number	Date Sampled
MW-4-2	54848	MW-992-008	14	6/3/99
MW-7	54879	MW-992-015	15	6/4/99
MW-13	54879	MW-992-031	19	6/4/99
MW-16	54879	MW-992-039	19	6/4/99
MW-17-3	54792	MW-992-042	13	6/2/99
MW-24-1	54848	MW-992-075	14	6/3/99



MONTGOMERY WATSON LABORATORIES

Quality Environmental Analysis

A division of Montgomery Watson Americas, Inc.

June 10, 1999

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

Attention: Mark Cutler

Re: Report # 54297 (MW-992-080, MW-992-081, MW-992-026,
MW-992-027)

Sampled: 5/14/99

Dear Mark,

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

Non-conformance (LCS, MS/MSD, Surrogates, and Holding Times)

None

Samples requiring dilution (with increased MRL's):

None

Method blanks with compounds detected:

None

Comments:

Chloroform was detected in MW-992-081, -026, -027

Methylene Chloride was detected in MW-992-081, -026, -027

Carbon Tetrachloride was detected in MW-992-026, -027

Perchlorate was detected in MW-992-026, -027

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#: 54297
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

The following samples were received from you on 05/14/99. 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
990514109	MW-992-080	@EBASVOA	Water	05/14/99
990514117	MW-992-081	@EBASVOA AS-EBAS CR-EBAS PB-EBAS CR-VI CLO4	Water	05/14/99
990514120	MW-992-026	@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	05/14/99
990514122	MW-992-027	@EBASVOA AS-EBAS CR-EBAS PB-EBAS CR-VI CLO4	Water	05/14/99

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

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#: 54297
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

Test Acronym Description

Test Acronym	Description
MG	Magnesium, Total, ICAP
NA	Sodium, Total, ICAP
NO3	Nitrate-N by IC
PB-EBAS	Lead, Total, ICAP/MS
PH	Lab pH
SO4	Sulfate
TDS	Total Dissolved Solid (TDS)



NUMBER 1250

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

9-14
REG ICE ok

PROJECT JPL-992		OFS NO. 1572.0276		HAZARD IDENTIFICATION Non Hazard ☒ Reactive ☐ Flammable ☐ Toxic ☐ Skin Irritant ☐ Infectious ☐		TIME REQUIRED NORMAL ☒ DAYS RUSH ☐ DAYS													
PROJECT ADDRESS 4800 Oakgrove Dr., Pasadena CA																			
SAMPLER (Name) Tami Turpin-Kessler		SAMPLER (Signature) <i>Tami Turpin-Kessler</i>		ANALYSES REQUIRED															
LABORATORY Montgomery Watson																			
REPORTS TO BE SENT TO Mr. Mark Cutler																			
SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL			VOCs (524.2)	Total Cr, As, Pb metals (600/700)	Anions + TDS	Cu + Pb	ClO ₄	Ac for Cr, Pb						
					WATER	SOIL	OTHER (Describe)												
MW-992-080	1405	5/14/99	2	2 x 40ml	X			X	X										
MW-992-081	1330	5/14/99	5	2 x 40ml 1 x 25ml 2 x 125ml	X			X	X		X	X							
MW-992-026	1350	5/14/99	6	2 x 40ml 1 x 25ml 2 x 125ml 1 x 500ml	X			X	X	X	X	X	X						
MW-992-027	1355	5/14/99	5	2 x 40ml 1 x 25ml 2 x 125ml	X			X	X	X	X	X							
LABORATORY INSTRUCTIONS/COMMENTS LEVEL IV QA/QC																			
RELINQUISHED BY (Signature) <i>Tami Turpin-Kessler</i>		DATE 5/14/99		RECEIVED BY (Signature) <i>Mark Cutler</i>		DATE 5-14-99		RELINQUISHED BY (Signature)		DATE		RECEIVED BY (Signature)							
COMPANY Foster Wheeler		TIME 1520		COMPANY FW				COMPANY		TIME		COMPANY							

MONTGOMERY LABORATORIES COOLER RECEIPT FORM

PROJECT: ENSVRCH Date Received: 5-14-99
 Use other side of this form to note further details concerning check-in problems and to describe any action(s) regarding the resolution(s) of problems.

A. PRELIMINARY EXAMINATION: Date cooler opened: 5-14-99
 by (print) M. DE MEUSA (sign) [Signature]

1. Did cooler come with shipping slip (air bill, etc.)? Yes ☒ No ☐
 If YES, attach & enter carrier and air bill # here: DEL BY CLIENT

2. Were custody seals on outside of cooler? Yes ☒ No ☐
 If YES, how many & where: 2 LID OF COOLER
 If Yes, enter the following: seal date: 5-14-99, seal name: TT

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

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

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

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

7. Was project identifiable from custody papers? Yes ☒ No ☐

8. Have designated person(s) initial to acknowledge receipt: MUD (date) 5-14-99

B. LOG-IN PHASE: Date samples were logged-in: 5-14-99 by:
 (print) M. DE MEUSA (sign) [Signature]

9. Describe packing:

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

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

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

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

14. Did all bottle labels agree with custody papers?
 If NO, indicate discrepancies 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, PR54297

			Result	MDL	UNITS
Analyzed	990514109	MW-992-080			
Analyzed	990514117	MW-992-081			
05/18/99	Chloroform (Trichloromethane)		0.8	.500	UGL
05/18/99	Dichloromethane		0.5	.500	UGL
Analyzed	990514120	MW-992-026			
05/18/99	Carbon Tetrachloride		0.8	.500	UGL
05/18/99	Chloroform (Trichloromethane)		0.6	.500	UGL
05/18/99	Dichloromethane		0.8	.500	UGL
05/24/99	Alkalinity		190	2.000	MGL
05/27/99	Anion Sum		5.21	.001	MEQL
05/25/99	Bicarbonate as HCO ₃ ,calculated		231	.001	MGL
05/27/99	Calcium, Total, ICAP		54.7	1.000	MGL
05/25/99	Carbonate as CO ₃ , Calculated		0.752	.001	MGL
05/28/99	Cation Sum		5.40	.001	MEQL
05/14/99	Chloride		14.7	1.000	MGL
05/26/99	Iron, Total, ICAP/MS		125	*****	UGL
05/18/99	Lab pH		7.7	.001	UNIT
05/27/99	Magnesium, Total, ICAP		18.5	.100	MGL
05/14/99	Nitrate-N by IC		1.87	.100	MGL
06/03/99	Perchlorate		5.0	4.000	UGL
05/27/99	Potassium, Total, ICAP		3.1	1.000	MGL
05/27/99	Sodium, Total, ICAP		24.5	1.000	MGL
05/21/99	Specific Conductance		475	4.000	UMHO
05/14/99	Sulfate		41.5	2.000	MGL
05/21/99	Total Dissolved Solid (TDS)		310	10.000	MGL
Analyzed	990514122	MW-992-027			
05/18/99	Carbon Tetrachloride		0.8	.500	UGL
05/18/99	Chloroform (Trichloromethane)		0.6	.500	UGL
05/18/99	Dichloromethane		0.6	.500	UGL
06/03/99	Perchlorate		5.0	4.000	UGL



MONTGOMERY WATSON LABORATORIES

a Division of Montgomery Watson Americas, Inc.

555 East Walnut Street

Pasadena, California 91101

Tel: 626 568 6400 Fax: 626 568 6324

1 800 566 LABS (1 800 566 5227)

Laboratory Report

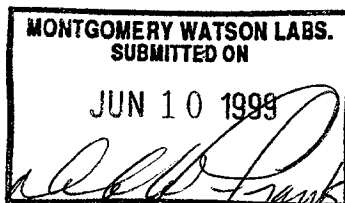
for

Foster Wheeler Environmental, Inc
611 Anton Boulevard

Suite 800

Costa Mesa , CA 92626

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



DEB* Debbie Frank

Report#: 54297
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
#54297

Group Comments

(524.2) Stationary blank analyzed. No analytes detected.

**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
#54297

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

Samples Received
14-may-1999 15:42:26

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-992-080 (990514109)			Sampled on 05/14/99					
Regulated VOCs plus Lists 1&3								
05/18/99	96585	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1	
05/18/99	96585	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1	
05/18/99	96585	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1	
05/18/99	96585	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1	
05/18/99	96585	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1	
05/18/99	96585	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1	
05/18/99	96585	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1	
05/18/99	96585	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1	
05/18/99	96585	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1	
05/18/99	96585	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1	
05/18/99	96585	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1	
05/18/99	96585	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1	
05/18/99	96585	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1	
05/18/99	96585	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1	
05/18/99	96585	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1	
05/18/99	96585	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1	
05/18/99	96585	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1	
05/18/99	96585	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1	
05/18/99	96585	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1	
05/18/99	96585	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1	
05/18/99	96585	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1	
05/18/99	96585	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1	
05/18/99	96585	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1	
05/18/99	96585	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1	
05/18/99	96585	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1	
05/18/99	96585	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1	
05/18/99	96585	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1	
05/18/99	96585	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1	
05/18/99	96585	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1	

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**Laboratory
Report
#54297****Foster Wheeler Environmental, Inc
(continued)**

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	05/18/99	96585	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	05/18/99	96585	(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	98	% Rec		
			(Surrogate)	4-Bromofluorobenzene	103	% Rec		
			(Surrogate)	Toluene-d8	98	% Rec		

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**Laboratory
 Report
 #54297**

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-992-081 (990514117)				Sampled on 05/14/99				
05/25/99	05/27/99	96873	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	06/03/99	97115	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
05/25/99	05/26/99	96798	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	05/14/99	96279	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
05/25/99	05/26/99	96806	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
Regulated VOCs plus Lists 1&3								
	05/18/99	96585	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	05/18/99	96585	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	05/18/99	96585	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1

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**Laboratory
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 #54297**

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	05/18/99	96585	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Chloroform (Trichloromethane)	0.8	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Dichloromethane	0.5	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	108	% Rec		
			(Surrogate)	4-Bromofluorobenzene	97	% Rec		

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**Laboratory
Report
#54297**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
			(Surrogate)	Toluene-d8	106	% Rec		
MW-992-026 (990514120) Sampled on 05/14/99								
	05/24/99	96659	(ML/SM2320B)	Alkalinity	190	mg/l	2.0	1
	05/27/99		(ML/SM1040)	Anion Sum	5.21	meq/l	0.0010	1
05/25/99	05/27/99	96873	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
05/27/99	05/27/99	96841	(ML/EPA 200.7)	Calcium, Total, ICAP	54.7	mg/l	1.0	1
	05/28/99		(ML/SM1040)	Cation Sum	5.40	meq/l	0.0010	1
	05/14/99	96347	(ML/EPA 300)	Chloride	14.7	mg/l	1.0	1
	06/03/99	97115	(MOD/EPA 300)	Perchlorate	5.0	ug/l	4.0	1
	05/25/99		(ML/SM2320B)	Carbonate as CO3, Calculated	0.752	mg/l	0.0010	1
05/25/99	05/26/99	96798	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	05/14/99	96279	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	05/21/99	96576	(ML/S2510B)	Specific Conductance	475	umho/cm	4.0	1
05/25/99	05/26/99	96802	(EPA/ML 200.8)	Iron, Total, ICAP/MS	125	ug/l	100	1
	05/25/99		(ML/SM2320B)	Bicarbonate as HCO3,calculated	231	mg/l	0.0010	1
05/27/99	05/27/99	96844	(ML/EPA 200.7)	Potassium, Total, ICAP	3.1	mg/l	1.0	1
05/18/99	05/27/99	96846	(ML/EPA 200.7)	Magnesium, Total, ICAP	18.5	mg/l	0.10	1
05/27/99	05/27/99	96848	(ML/EPA 200.7)	Sodium, Total, ICAP	24.5	mg/l	1.0	1
	05/14/99	96350	(ML/EPA 300.0)	Nitrate-N by IC	1.87	mg/l	0.10	1
05/25/99	05/26/99	96806	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	05/18/99	96489	(ML/SM 4500HB)	Lab pH	7.7	Units	0.0010	1
	05/14/99	96352	(ML/EPA 300.0)	Sulfate	41.5	mg/l	2.0	1
	05/21/99	96613	(ML/SM2540C)	Total Dissolved Solid (TDS)	310	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	05/18/99	96585	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1

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(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	05/18/99	96585	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	05/18/99	96585	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	05/18/99	96585	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Carbon Tetrachloride	0.8	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Chloroform (Trichloromethane)	0.6	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Dichloromethane	0.8	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1



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**Laboratory
Report
#54297**

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	05/18/99	96585	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	105	% Rec		
			(Surrogate)	4-Bromofluorobenzene	95	% Rec		
			(Surrogate)	Toluene-d8	100	% Rec		

MW-992-027 (990514122)

Sampled on 05/14/99

05/25/99	05/27/99	96873	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	06/03/99	97115	(MOD/EPA 300)	Perchlorate	5.0	ug/l	4.0	1
05/25/99	05/26/99	96798	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	05/14/99	96279	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
05/25/99	05/26/99	96806	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1

Regulated VOCs plus Lists 1&3

05/18/99	96585	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
05/18/99	96585	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
05/18/99	96585	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
05/18/99	96585	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
05/18/99	96585	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
05/18/99	96585	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
05/18/99	96585	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
05/18/99	96585	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
05/18/99	96585	(ML/EPA 524.2)	1,2,3-Trichloropropane	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
	05/18/99	96585	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	05/18/99	96585	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	05/18/99	96585	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Carbon Tetrachloride	0.8	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Chloroform (Trichloromethane)	0.6	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Dichloromethane	0.6	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Naphthalene	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
	05/18/99	96585	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None detected	ND			1
			(Surrogate	1,2-Dichloroethane-d4	100	% Rec		
			(Surrogate	4-Bromofluorobenzene	110	% Rec		
			(Surrogate	Toluene-d8	101	% Rec		

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QC Report

#54297

Foster Wheeler Environmental, Inc

QC Batch #96279**Hexavalent chromium (Cr VI)**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0514120		(0.00 - 0.00)	
LCS1	Hexavalent chromium (Cr VI)	0.050	0.0498	99.6	(78.00 - 118.00)	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.0498	99.6	(78.00 - 118.00)	0.00
MBLK	Hexavalent chromium (Cr VI)	ND				
MS	Hexavalent chromium (Cr VI)	0.050	0.0498	99.6	(80.00 - 120.00)	
MSD	Hexavalent chromium (Cr VI)	0.050	0.0504	100.8	(80.00 - 120.00)	1.2

QC Batch #96347**Chloride**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0514120		(0.00 - 0.00)	
LCS1	Chloride	25	25.7	102.8	(90.00 - 110.00)	
LCS2	Chloride	25	25.9	103.6	(90.00 - 110.00)	0.78
MBLK	Chloride	ND				
MS	Chloride	25	27.1	108.4	(80.00 - 120.00)	
MSD	Chloride	25	28.0	112.0	(80.00 - 120.00)	3.3

QC Batch #96350**Nitrate-N by IC**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0514120		(0.00 - 0.00)	
LCS1	Nitrate-N by IC	2.5	2.56	102.4	(90.00 - 110.00)	
LCS2	Nitrate-N by IC	2.5	2.46	98.4	(90.00 - 110.00)	4.0
MBLK	Nitrate-N by IC	ND				
MS	Nitrate-N by IC	2.5	2.61	104.4	(80.00 - 120.00)	
MSD	Nitrate-N by IC	2.5	2.69	107.6	(80.00 - 120.00)	3.0

QC Batch #96352**Sulfate**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0514120		(0.00 - 0.00)	
LCS1	Sulfate	50	51.7	103.4	(90.00 - 110.00)	
LCS2	Sulfate	50	52.3	104.6	(90.00 - 110.00)	1.2

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

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MBLK	Sulfate	ND				
MS	Sulfate	50	54.0	108.0	(80.00 - 120.00)	
MSD	Sulfate	50	55.3	110.6	(80.00 - 120.00)	2.4

QC Batch #96489**Lab pH**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 99	0518169		(0.00 - 0.00)	

QC Batch #96576**Specific Conductance**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 99	0517082		(0.00 - 0.00)	

QC Batch #96585**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	3.85	96.2	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	3.78	94.5	(70.00 - 130.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	3.73	93.2	(70.00 - 130.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	4.39	109.7	(70.00 - 130.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	3.90	97.5	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MS	1,1-Dichloroethylene	4	3.63	90.8	(70.00 - 130.00)	
MSD	1,1-Dichloroethylene	4	3.61	90.2	(70.00 - 130.00)	0.55
MBLK	1,1-Dichloropropene	ND				
MBLK	1,2,3-Trichlorobenzene	ND				
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	4	3.69	92.2	(70.00 - 130.00)	

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MBLK	1,2,4-Trichlorobenzene	ND				
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	4	3.78	94.5	(70.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	4	3.98	99.5	(70.00 - 130.00)	
MBLK	1,2-Dichloropropane	ND				
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	8	7.04	88.0	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
LCS1	p-Dichlorobenzene (1,4-DCB)	4	3.84	96.0	(70.00 - 130.00)	
MBLK	p-Dichlorobenzene (1,4-DCB)	ND				
MBLK	2,2-Dichloropropane	ND				
MBLK	2-Butanone (MEK)	ND				
MBLK	2-Chloroethylvinylether	ND				
MBLK	o-Chlorotoluene	ND				
MBLK	p-Chlorotoluene	ND				
MBLK	4-Methyl-2-Pentanone (MIBK)	ND				
MS	Spiked sample	Lab # 99	0517080		(0.00 - 0.00)	
LCS1	Benzene	4	4.11	102.8	(70.00 - 130.00)	
MBLK	Benzene	ND				
MS	Benzene	4	3.86	96.5	(70.00 - 130.00)	
MSD	Benzene	4	3.81	95.2	(70.00 - 130.00)	1.3
MBLK	Bromobenzene	ND				
MBLK	Bromomethane (Methyl Bromide)	ND				
LCS1	cis-1,2-Dichloroethylene	4	4.24	106.0	(70.00 - 130.00)	
MBLK	cis-1,2-Dichloroethylene	ND				
LCS1	Chlorobenzene	4	3.85	96.2	(70.00 - 130.00)	
MBLK	Chlorobenzene	ND				
MS	Chlorobenzene	4	3.64	91.0	(70.00 - 130.00)	
MSD	Chlorobenzene	4	3.50	87.5	(70.00 - 130.00)	3.9
LCS1	Carbon Tetrachloride	4	3.95	98.8	(70.00 - 130.00)	
MBLK	Carbon Tetrachloride	ND				
MBLK	cis-1,3-Dichloropropene	ND				
LCS1	Bromoform	4	2.86	71.5	(70.00 - 130.00)	
MBLK	Bromoform	ND				
LCS1	Chloroform (Trichloromethane)	4	3.71	92.8	(70.00 - 130.00)	
MBLK	Chloroform (Trichloromethane)	ND				

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MBLK	Bromochloromethane	ND				
MBLK	Chloroethane	ND				
MBLK	Chloromethane (Methyl Chloride)	ND				
LCS1	Chlorodibromomethane	4	3.60	90.0	(70.00 - 130.00)	
MBLK	Chlorodibromomethane	ND				
MBLK	Dibromomethane	ND				
LCS1	Bromodichloromethane	4	3.61	90.2	(70.00 - 130.00)	
MBLK	Bromodichloromethane	ND				
LCS1	Dichloromethane	4	3.64	91.0	(70.00 - 130.00)	
MBLK	Dichloromethane	ND				
LCS1	Ethyl benzene	4	3.86	96.5	(70.00 - 130.00)	
MBLK	Ethyl benzene	ND				
MBLK	Dichlorodifluoromethane	ND				
LCS1	Fluorotrichloromethane-Freon11	2	1.91	95.5	(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	8.12	101.5	(70.00 - 130.00)	
MBLK	m,p-Xylenes	ND				
MBLK	Naphthalene	ND				
MBLK	n-Butylbenzene	ND				
MBLK	n-Propylbenzene	ND				
LCS1	o-Xylene	4	4.02	100.5	(70.00 - 130.00)	
MBLK	o-Xylene	ND				
LCS1	o-Dichlorobenzene (1,2-DCB)	4	3.71	92.8	(70.00 - 130.00)	
MBLK	o-Dichlorobenzene (1,2-DCB)	ND				
LCS1	Tetrachloroethylene (PCE)	4	4.02	100.5	(70.00 - 130.00)	
MBLK	Tetrachloroethylene (PCE)	ND				
MBLK	p-Isopropyltoluene	ND				
MBLK	sec-Butylbenzene	ND				
LCS1	Styrene	4	3.84	96.0	(70.00 - 130.00)	
MBLK	Styrene	ND				
LCS1	1,2-dichloroethane-d4	100	98.0	98.0	(80.00 - 120.00)	
MBLK	1,2-dichloroethane-d4	100	96.6	97.0		
MS	1,2-dichloroethane-d4	100	105	105.0	(80.00 - 120.00)	
MSD	1,2-dichloroethane-d4	100	104	104.0	(80.00 - 120.00)	0.96

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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
 #54297

Foster Wheeler Environmental, Inc
 (continued)

LCS1	Toluene-d8	100	96.2	96.2	(80.00 - 120.00)	
MBLK	Toluene-d8	100	96.7	97.0		
MS	Toluene-d8	100	105	105.0	(80.00 - 120.00)	
MSD	Toluene-d8	100	105	105.0	(80.00 - 120.00)	0.00
LCS1	4-Bromofluorobenzene	100	102	102.0	(80.00 - 120.00)	
MBLK	4-Bromofluorobenzene	100	99.7	100.0		
MS	4-Bromofluorobenzene	100	99.8	99.8	(80.00 - 120.00)	
MSD	4-Bromofluorobenzene	100	103	103.0	(80.00 - 120.00)	3.2
LCS1	trans-1,2-Dichloroethylene	4	4.06	101.5	(70.00 - 130.00)	
MBLK	trans-1,2-Dichloroethylene	ND				
MBLK	tert-Butylbenzene	ND				
LCS1	Trichloroethylene (TCE)	4	3.98	99.5	(70.00 - 130.00)	
MBLK	Trichloroethylene (TCE)	ND				
MS	Trichloroethylene (TCE)	4	3.56	89.0	(70.00 - 130.00)	
MSD	Trichloroethylene (TCE)	4	3.83	95.8	(70.00 - 130.00)	7.3
LCS1	Trichlorotrifluoroethane (Freon	4	4.46	111.5	(70.00 - 130.00)	
MBLK	Trichlorotrifluoroethane (Freon	ND				
MBLK	trans-1,3-Dichloropropene	ND				
LCS1	Toluene	4	4.01	100.2	(70.00 - 130.00)	
MBLK	Toluene	ND				
MS	Toluene	4	3.83	95.8	(70.00 - 130.00)	
MSD	Toluene	4	3.68	92.0	(70.00 - 130.00)	4.0
LCS1	Vinyl chloride (VC)	2	2.31	115.5	(70.00 - 130.00)	
MBLK	Vinyl chloride (VC)	ND				

QC Batch #96613**Total Dissolved Solid (TDS)**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 99	0514120		(0.00 - 0.00)	
LCS1	Total Dissolved Solid (TDS)	175	168	96.0	(85.00 - 115.00)	
LCS2	Total Dissolved Solid (TDS)	700	692	98.9	(85.00 - 115.00)	
MBLK	Total Dissolved Solid (TDS)	ND				

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
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Laboratory
QC Report
#54297

Foster Wheeler Environmental, Inc
(continued)

QC Batch #96659**Alkalinity**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0514120		(0.00 - 0.00)	
LCS1	Alkalinity	96.2	98.9	102.8	(90.00 - 110.00)	
LCS2	Alkalinity	96.2	99.5	103.4	(90.00 - 110.00)	0.60
MBLK	Alkalinity	ND				
MS	Alkalinity	96.2	96.8	100.6	(80.00 - 120.00)	
MSD	Alkalinity	96.2	96.7	100.5	(80.00 - 120.00)	0.10

QC Batch #96798**Chromium, Total, ICAP/MS**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0517080		(0.00 - 0.00)	
LCS1	Chromium, Total, ICAP/MS	100	102	102.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	101	101.0	(85.00 - 115.00)	0.99
MBLK	Chromium, Total, ICAP/MS	ND				
MS	Chromium, Total, ICAP/MS	100	106	106.0	(70.00 - 130.00)	
MSD	Chromium, Total, ICAP/MS	100	102	102.0	(70.00 - 130.00)	3.8

QC Batch #96802**Iron, Total, ICAP/MS**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0517080		(0.00 - 0.00)	
LCS1	Iron, Total, ICAP/MS	500	470	94.0	(85.00 - 115.00)	
LCS2	Iron, Total, ICAP/MS	500	463	92.6	(85.00 - 115.00)	1.5
MBLK	Iron, Total, ICAP/MS	ND				
MS	Iron, Total, ICAP/MS	500	482	96.4	(70.00 - 130.00)	
MSD	Iron, Total, ICAP/MS	500	446	89.2	(70.00 - 130.00)	7.8

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

QC Report

#54297

Foster Wheeler Environmental, Inc
(continued)**QC Batch #96806****Lead, Total, ICAP/MS**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0517080		(0.00 - 0.00)	
LCS1	Lead, Total, ICAP/MS	20.0	20.9	104.5	(85.00 - 115.00)	
LCS2	Lead, Total, ICAP/MS	20.0	19.9	99.5	(85.00 - 115.00)	4.9
MBLK	Lead, Total, ICAP/MS	ND				
MS	Lead, Total, ICAP/MS	20.0	21.2	106.0	(70.00 - 130.00)	
MSD	Lead, Total, ICAP/MS	20.0	19.9	99.5	(70.00 - 130.00)	6.3

QC Batch #96841**Calcium, Total, ICAP**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0517078		(0.00 - 0.00)	
LCS1	Calcium, Total, ICAP	50	51.4	102.8	(85.00 - 115.00)	
LCS2	Calcium, Total, ICAP	50	51.4	102.8	(85.00 - 115.00)	0.00
MBLK	Calcium, Total, ICAP	ND				
MS	Calcium, Total, ICAP	50	52.2	104.4	(70.00 - 130.00)	
MSD	Calcium, Total, ICAP	50	51.7	103.4	(70.00 - 130.00)	0.96

QC Batch #96844**Potassium, Total, ICAP**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0517078		(0.00 - 0.00)	
LCS1	Potassium, Total, ICAP	20	20.3	101.5	(80.00 - 110.00)	
LCS2	Potassium, Total, ICAP	20	20.4	102.0	(80.00 - 110.00)	0.49
MBLK	Potassium, Total, ICAP	ND				
MS	Potassium, Total, ICAP	20	20.3	101.5	(80.00 - 120.00)	
MSD	Potassium, Total, ICAP	20	20.2	101.0	(80.00 - 120.00)	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.

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Laboratory

QC Report

#54297

Foster Wheeler Environmental, Inc
(continued)**QC Batch #96846****Magnesium, Total, ICAP**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0517078		(0.00 - 0.00)	
LCS1	Magnesium, Total, ICAP	20	20.9	104.5	(85.00 - 115.00)	
LCS2	Magnesium, Total, ICAP	20	20.9	104.5	(85.00 - 115.00)	0.00
MBLK	Magnesium, Total, ICAP	ND				
MS	Magnesium, Total, ICAP	20	21.4	107.0	(70.00 - 130.00)	
MSD	Magnesium, Total, ICAP	20	21.2	106.0	(70.00 - 130.00)	0.94

QC Batch #96848**Sodium, Total, ICAP**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0517078		(0.00 - 0.00)	
LCS1	Sodium, Total, ICAP	50	51.2	102.4	(85.00 - 115.00)	
LCS2	Sodium, Total, ICAP	50	51.3	102.6	(85.00 - 115.00)	0.20
MBLK	Sodium, Total, ICAP	ND				
MS	Sodium, Total, ICAP	50	50.1	100.2	(70.00 - 130.00)	
MSD	Sodium, Total, ICAP	50	48.6	97.2	(70.00 - 130.00)	3.0

QC Batch #96873**Arsenic, Total, GF**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0517080		(0.00 - 0.00)	
LCS1	Arsenic, Total, GF	0.020	0.0200	100.0	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.0201	100.5	(85.00 - 115.00)	0.50
MBLK	Arsenic, Total, GF	ND				
MS	Arsenic, Total, GF	0.020	0.0215	107.5	(70.00 - 130.00)	
MSD	Arsenic, Total, GF	0.020	0.0204	102.0	(70.00 - 130.00)	5.3

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

#54297

Foster Wheeler Environmental, Inc
(continued)

QC Batch #97115

Perchlorate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0514117		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	20.4	102.0	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	20.5	102.5	(90.00 - 110.00)	0.49
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	20.6	103.0	(75.00 - 125.00)	
MSD	Perchlorate	20.0	20.8	104.0	(75.00 - 125.00)	0.97

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 10, 1999

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

Attention: Mark Cutler

Re: Report # 54352 (MW-992-082, MW-992-083, MW-992-049,
MW-992-048, MW-992-047, MW-992-046, MW-992-045)

Sampled: 5/17/99

Dear Mark,

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

Non-conformance (LCS, MS/MSD, Surrogates, and Holding Times)

None

Samples requiring dilution (with increased MRL's):

None

Method blanks with compounds detected:

None

Comments:

Carbon Tetrachloride was detected in MW-992-048

Chloroform was detected in MW-992-083, -048, -047, -046

Methylene Chloride (Dichloromethane) was detected in MW-992-049, -048, -047

Tetrachloroethylene was detected in sample MW-992-048, -047

Trichloroethylene was detected in sample MW-992-048

Perchlorate was detected in MW-992-048

Sample ID MW-992-083 was documented as MW-992-081 on the original COC.

The laboratory changed the ID to MW-992-083 per the instructions from the field sampler.

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)

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Southwest Service Center
4820 South Mill Avenue - Suite 202
Tempe, Arizona 85282
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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#: 54352
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

The following samples were received from you on 05/17/99. 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
990517076	MW-992-082	@EBASVOA	Water	05/17/99
990517077	MW-992-083	@EBASVOA AS-EBAS CR-EBAS PB-EBAS CR-VI CLO4	Water	05/17/99
990517078	MW-992-049	@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	05/17/99
990517079	MW-992-048	@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	Water	05/17/99
990517080	MW-992-047	@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	05/17/99
990517081	MW-992-046	@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	05/17/99
990517082	MW-992-045	@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	05/17/99

Test Acronym Description

Test Acronym	Description
--------------	-------------

Foster Wheeler Environmental, Inc

611 Anton Boulevard

Suite 800

Costa Mesa, CA 92626

Attn: Mark Cutler

Customer Code: ENSERCH

PO#: Sub PO#007618-0006

Group#: 54352

Project#: JPL

Proj Mgr: Debbie Frank

Phone: (714) 444-5526

Test Acronym Description

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



FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

54352

NUMBER 1201

TECH 9-14

REG ICE - OK

PAGE 1 OF 1

PROJECT JPL		OFS NO. 1572 0276		HAZARD IDENTIFICATION Non Hazard ☒ Reactive ☐ Flammable ☐ Toxic ☐ Skin Irritant ☐ Infectious ☐		TIME REQUIRED NORMAL ☒ DAYS RUSH ☐ DAYS											
PROJECT ADDRESS 4800 OAK CREST DR PASADENA CA																	
SAMPLER (Name) J. Brenner		SAMPLER (Signature) <i>[Signature]</i>		ANALYSES REQUIRED													
LABORATORY MONTEGOMERY WATSON LABS				VOCs (524.2) TOX AS C-Pb (6010/7050) MAJOR I TDS ANIONS HX Cr PENTACHLOR MS FOR VOCs MS FOR VOCs MS/MSD METALS QC FOR G-6+													
REPORTS TO BE SENT TO MIC MORGAN COTTON																	
SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL			VOCs (524.2)	TOX AS C-Pb (6010/7050)	MAJOR I TDS	ANIONS	HX Cr	PENTACHLOR	MS FOR VOCs	MS FOR VOCs	MS/MSD METALS	QC FOR G-6+
					WATER	SOIL	OTHER (Describe)										
MW 912 001	0900	5/17/99	2	2x40ml	X			X									
MW 912 001	1000		5	2x40ml 1x25ml 2x125ml	X			X	X			X	X	*D			
MW 912 001	0950		6	2x40ml 1x25ml 2x125ml 1x500ml	X			X	X	X		X	X				
MW 912 001	1120		6	2x40ml 2x25ml 2x125ml	X			X	X	X		X	X				
MW 912 001	1300		6	2x40ml 2x25ml 2x125ml	X			X	X	X		X	X				
MW 912 001	1300		2	2x40ml	X									X			
MW 912 001	1300		2	2x40ml	X										X		
MW 912 001	1410		6	2x40ml 1x25ml 2x125ml 1x500ml	X			X	X	X		X	X				
MW 912 001	1515		6		X			X	X	X		X	X				
LABORATORY INSTRUCTIONS/COMMENTS LEVEL III QA/QC																	
RELINQUISHED BY (Signature) <i>[Signature]</i>		DATE 5/17/99		RECEIVED BY (Signature) <i>[Signature]</i>		DATE		RELINQUISHED BY (Signature)		DATE		RECEIVED BY (Signature)		DATE		RECEIVED BY (Signature)	
COMPANY M. DE ALA		TIME 11:00		COMPANY M. DE ALA		TIME		COMPANY		TIME		COMPANY		TIME		COMPANY	

MONTGOMERY LABORATORIES COOLER RECEIPT FORM

PROJECT: ENSERCH Date Received: 5-17-99
 Use other side of this form to note further details concerning check-in problems
 and to describe any action(s) regarding the resolution(s) of problems.

A. PRELIMINARY EXAMINATION: Date cooler opened: 5-17-99
 by (print) M. DE AUSA (sign) [Signature]

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

2. Were custody seals on outside of cooler? Yes No
 If YES, how many & where: 2 on cooler lid
 If Yes, enter the following: seal date: 5-17-99, seal name: J.B.

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

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

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

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

7. Was project identifiable from custody papers? Yes No

8. Have designated person(s) initial to acknowledge receipt: MLD (date) 5-17-99

B. LOG-IN PHASE: Date samples were logged-in: 5-17-99 by:
 (print) M. DE AUSA (sign) [Signature]

9. Describe packing:

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

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

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

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

14. Did all bottle labels agree with custody papers?
 If NO, indicate discrepancies 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, PR54352

		Result	MDL	UNITS
Analyzed	990517076 MW-992-082			
Analyzed	990517077 MW-992-083			
05/18/99	Chloroform (Trichloromethane)	0.8	.500	UGL
Analyzed	990517078 MW-992-049			
05/18/99	Dichloromethane	0.8	.500	UGL
05/26/99	Alkalinity	151	2.000	MGL
05/27/99	Anion Sum	3.46	.001	MEQL
05/28/99	Bicarbonate as HCO ₃ ,calculated	183	.001	MGL
05/27/99	Calcium, Total, ICAP	15.0	1.000	MGL
05/28/99	Carbonate as CO ₃ , Calculated	3.76	.001	MGL
05/28/99	Cation Sum	3.49	.001	MEQL
05/18/99	Chloride	11.1	1.000	MGL
05/26/99	Iron, Total, ICAP/MS	200	*****	UGL
05/18/99	Lab pH	8.5	.001	UNIT
05/27/99	Magnesium, Total, ICAP	5.5	.100	MGL
05/27/99	Potassium, Total, ICAP	1.7	1.000	MGL
05/27/99	Sodium, Total, ICAP	51.7	1.000	MGL
05/21/99	Specific Conductance	305	4.000	UMHO
05/18/99	Sulfate	6.01	2.000	MGL
05/21/99	Total Dissolved Solid (TDS)	200	10.000	MGL
Analyzed	990517079 MW-992-048			
05/18/99	Carbon Tetrachloride	3.6	.500	UGL
05/18/99	Chloroform (Trichloromethane)	1.1	.500	UGL
05/18/99	Dichloromethane	0.7	.500	UGL
05/18/99	Tetrachloroethylene (PCE)	2.5	.500	UGL
05/18/99	Trichloroethylene (TCE)	1.6	.500	UGL
05/26/99	Alkalinity	153	2.000	MGL
05/27/99	Anion Sum	3.87	.001	MEQL
05/28/99	Bicarbonate as HCO ₃ ,calculated	186	.001	MGL
05/27/99	Calcium, Total, ICAP	31.6	1.000	MGL
05/28/99	Carbonate as CO ₃ , Calculated	2.41	.001	MGL
05/28/99	Cation Sum	3.99	.001	MEQL
05/18/99	Chloride	10.1	1.000	MGL
05/26/99	Iron, Total, ICAP/MS	230	*****	UGL
05/18/99	Lab pH	8.3	.001	UNIT
05/27/99	Magnesium, Total, ICAP	11.7	.100	MGL
05/18/99	Nitrate-N by IC	0.55	.100	MGL
06/03/99	Perchlorate	16	4.000	UGL
05/27/99	Potassium, Total, ICAP	1.5	1.000	MGL
05/27/99	Sodium, Total, ICAP	32.3	1.000	MGL
05/21/99	Specific Conductance	345	4.000	UMHO
05/18/99	Sulfate	23.1	2.000	MGL
05/21/99	Total Dissolved Solid (TDS)	230	10.000	MGL
Analyzed	990517080 MW-992-047			
05/18/99	Chloroform (Trichloromethane)	2.5	.500	UGL
05/18/99	Dichloromethane	0.6	.500	UGL
05/18/99	Trichloroethylene (TCE)	1.1	.500	UGL

05/26/99	Alkalinity	187	2.000	MGL
05/27/99	Anion Sum	4.90	.001	MEQL
05/28/99	Bicarbonate as HCO ₃ ,calculated	227	.001	MGL
05/27/99	Calcium, Total, ICAP	49.3	1.000	MGL
05/28/99	Carbonate as CO ₃ , Calculated	2.34	.001	MGL
05/28/99	Cation Sum	5.03	.001	MEQL
05/18/99	Chloride	11.9	1.000	MGL
05/18/99	Lab pH	8.2	.001	UNIT
05/27/99	Magnesium, Total, ICAP	18.7	.100	MGL
05/18/99	Nitrate-N by IC	0.83	.100	MGL
05/27/99	Potassium, Total, ICAP	2.9	1.000	MGL
05/27/99	Sodium, Total, ICAP	21.8	1.000	MGL
05/21/99	Specific Conductance	430	4.000	UMHO
05/18/99	Sulfate	36.6	2.000	MGL
05/21/99	Total Dissolved Solid (TDS)	270	10.000	MGL

Analyzed 990517081 MW-992-046

05/18/99	Chloroform (Trichloromethane)	0.8	.500	UGL
05/26/99	Alkalinity	177	2.000	MGL
05/27/99	Anion Sum	4.68	.001	MEQL
05/28/99	Bicarbonate as HCO ₃ ,calculated	216	.001	MGL
05/27/99	Calcium, Total, ICAP	49.4	1.000	MGL
05/28/99	Carbonate as CO ₃ , Calculated	0.559	.001	MGL
05/28/99	Cation Sum	4.72	.001	MEQL
05/18/99	Chloride	10.8	1.000	MGL
05/26/99	Iron, Total, ICAP/MS	330	*****	UGL
05/18/99	Lab pH	7.6	.001	UNIT
05/27/99	Magnesium, Total, ICAP	16.7	.100	MGL
05/18/99	Nitrate-N by IC	1.10	.100	MGL
05/27/99	Potassium, Total, ICAP	2.6	1.000	MGL
05/27/99	Sodium, Total, ICAP	18.6	1.000	MGL
05/21/99	Specific Conductance	415	4.000	UMHO
05/18/99	Sulfate	36.4	2.000	MGL
05/21/99	Total Dissolved Solid (TDS)	270	10.000	MGL

Analyzed 990517082 MW-992-045

05/26/99	Alkalinity	137	2.000	MGL
05/27/99	Anion Sum	3.45	.001	MEQL
05/28/99	Bicarbonate as HCO ₃ ,calculated	167	.001	MGL
05/27/99	Calcium, Total, ICAP	36.6	1.000	MGL
05/28/99	Carbonate as CO ₃ , Calculated	0.172	.001	MGL
05/28/99	Cation Sum	3.52	.001	MEQL
05/18/99	Chloride	5.05	1.000	MGL
05/26/99	Iron, Total, ICAP/MS	160	*****	UGL
05/18/99	Lab pH	7.2	.001	UNIT
05/27/99	Magnesium, Total, ICAP	12.6	.100	MGL
05/18/99	Nitrate-N by IC	0.56	.100	MGL
05/27/99	Potassium, Total, ICAP	2.2	1.000	MGL
05/27/99	Sodium, Total, ICAP	13.8	1.000	MGL
05/21/99	Specific Conductance	320	4.000	UMHO
05/18/99	Sulfate	25.2	2.000	MGL
05/21/99	Total Dissolved Solid (TDS)	210	10.000	MGL



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Laboratory Report

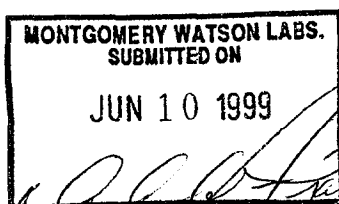
for

Foster Wheeler Environmental, Inc
611 Anton Boulevard

Suite 800

Costa Mesa , CA 92626

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



DEB* Debbie Frank

Report#: 54352
JPL

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Report
Comments
#54352

Group Comments

(524.2) The stationary blank was analyzed. No analytes were detected.

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Laboratory
Report
#54352

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

Samples Received
17-may-1999 17:05:17

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-992-082 (990517076)			Sampled on 05/17/99					
Regulated VOCs plus Lists 1&3								
05/18/99	96585	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1	
05/18/99	96585	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1	
05/18/99	96585	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1	
05/18/99	96585	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1	
05/18/99	96585	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1	
05/18/99	96585	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1	
05/18/99	96585	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1	
05/18/99	96585	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1	
05/18/99	96585	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1	
05/18/99	96585	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1	
05/18/99	96585	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1	
05/18/99	96585	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1	
05/18/99	96585	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1	
05/18/99	96585	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1	
05/18/99	96585	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1	
05/18/99	96585	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1	
05/18/99	96585	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1	
05/18/99	96585	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1	
05/18/99	96585	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1	
05/18/99	96585	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1	
05/18/99	96585	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1	
05/18/99	96585	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1	
05/18/99	96585	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1	
05/18/99	96585	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1	
05/18/99	96585	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1	
05/18/99	96585	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1	
05/18/99	96585	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1	
05/18/99	96585	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1	
05/18/99	96585	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1	

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**Laboratory
Report
#54352****Foster Wheeler Environmental, Inc
(continued)**

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	05/18/99	96585	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	05/18/99	96585	(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	102	% Rec		
			(Surrogate)	Toluene-d8	102	% Rec		

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**Laboratory
 Report
 #54352**

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-992-083 (990517077) Sampled on 05/17/99								
05/25/99	05/27/99	96873	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	06/03/99	97115	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
05/25/99	05/26/99	96798	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	05/17/99	96412	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
05/25/99	05/26/99	96806	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
Regulated VOCs plus Lists 1&3								
	05/18/99	96585	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	05/18/99	96585	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	05/18/99	96585	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1

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Laboratory**Report****#54352****Foster Wheeler Environmental, Inc**
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	05/18/99	96585	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Chloroform (Trichloromethane)	0.8	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	05/18/99	96585	(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	98	% Rec		
			(Surrogate)	4-Bromofluorobenzene	107	% Rec		

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**Laboratory
 Report
 #54352**

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
			(Surrogate)	Toluene-d8	90	% Rec		
MW-992-049 (990517078) Sampled on 05/17/99								
	05/26/99	96813	(ML/SM2320B)	Alkalinity	151	mg/l	2.0	1
	05/27/99		(ML/SM1040)	Anion Sum	3.46	meq/l	0.0010	1
05/25/99	05/27/99	96873	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
05/27/99	05/27/99	96841	(ML/EPA 200.7)	Calcium, Total, ICAP	15.0	mg/l	1.0	1
	05/28/99		(ML/SM1040)	Cation Sum	3.49	meq/l	0.0010	1
	05/18/99	96545	(ML/EPA 300)	Chloride	11.1	mg/l	1.0	1
	06/03/99	97115	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	05/28/99		(ML/SM2320B)	Carbonate as CO3, Calculated	3.76	mg/l	0.0010	1
05/25/99	05/26/99	96798	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	05/17/99	96412	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	05/21/99	96576	(ML/S2510B)	Specific Conductance	305	umho/cm	4.0	1
05/25/99	05/26/99	96802	(EPA/ML 200.8)	Iron, Total, ICAP/MS	200	ug/l	100	1
	05/28/99		(ML/SM2320B)	Bicarbonate as HCO3,calculated	183	mg/l	0.0010	1
05/27/99	05/27/99	96844	(ML/EPA 200.7)	Potassium, Total, ICAP	1.7	mg/l	1.0	1
05/27/99	05/27/99	96846	(ML/EPA 200.7)	Magnesium, Total, ICAP	5.5	mg/l	0.10	1
05/27/99	05/27/99	96848	(ML/EPA 200.7)	Sodium, Total, ICAP	51.7	mg/l	1.0	1
	05/18/99	96549	(ML/EPA 300.0)	Nitrate-N by IC	ND	mg/l	0.10	1
05/25/99	05/26/99	96806	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	05/18/99	96489	(ML/SM 4500HB)	Lab pH	8.5	Units	0.0010	1
	05/18/99	96553	(ML/EPA 300.0)	Sulfate	6.01	mg/l	2.0	1
	05/21/99	96613	(ML/SM2540C)	Total Dissolved Solid (TDS)	200	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	05/18/99	96585	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1

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**Laboratory
Report
#54352****Foster Wheeler Environmental, Inc
(continued)**

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	05/18/99	96585	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	05/18/99	96585	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	05/18/99	96585	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Dichloromethane	0.8	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1

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Laboratory**Report****#54352****Foster Wheeler Environmental, Inc**
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	05/18/99	96585	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	05/18/99	96585	(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	106	% Rec		
			(Surrogate)	Toluene-d8	99	% Rec		

MW-992-048 (990517079) Sampled on 05/17/99

	05/26/99	96813	(ML/SM2320B)	Alkalinity	153	mg/l	2.0	1
	05/27/99		(ML/SM1040)	Anion Sum	3.87	meq/l	0.0010	1
05/25/99	05/27/99	96873	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
05/27/99	05/27/99	96841	(ML/EPA 200.7)	Calcium, Total, ICAP	31.6	mg/l	1.0	1
	05/28/99		(ML/SM1040)	Cation Sum	3.99	meq/l	0.0010	1
	05/18/99	96545	(ML/EPA 300)	Chloride	10.1	mg/l	1.0	1
	06/03/99	97115	(MOD/EPA 300)	Perchlorate	16	ug/l	4.0	1
	05/28/99		(ML/SM2320B)	Carbonate as CO3, Calculated	2.41	mg/l	0.0010	1
05/25/99	05/26/99	96798	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	05/17/99	96412	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	05/21/99	96576	(ML/S2510B)	Specific Conductance	345	umho/cm	4.0	1
05/25/99	05/26/99	96802	(EPA/ML 200.8)	Iron, Total, ICAP/MS	230	ug/l	100	1
	05/28/99		(ML/SM2320B)	Bicarbonate as HCO3,calculated	186	mg/l	0.0010	1
05/27/99	05/27/99	96844	(ML/EPA 200.7)	Potassium, Total, ICAP	1.5	mg/l	1.0	1
05/27/99	05/27/99	96846	(ML/EPA 200.7)	Magnesium, Total, ICAP	11.7	mg/l	0.10	1
05/27/99	05/27/99	96848	(ML/EPA 200.7)	Sodium, Total, ICAP	32.3	mg/l	1.0	1

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**Laboratory
Report
#54352**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	05/18/99	96549	(ML/EPA 300.0)	Nitrate-N by IC	0.55	mg/l	0.10	1
05/25/99	05/26/99	96806	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	05/18/99	96489	(ML/SM 4500HB)	Lab pH	8.3	Units	0.0010	1
	05/18/99	96553	(ML/EPA 300.0)	Sulfate	23.1	mg/l	2.0	1
	05/21/99	96613	(ML/SM2540C)	Total Dissolved Solid (TDS)	230	mg/l	10	1

Regulated VOCs plus Lists 1&3

05/18/99	96585	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
05/18/99	96585	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
05/18/99	96585	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
05/18/99	96585	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
05/18/99	96585	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
05/18/99	96585	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
05/18/99	96585	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
05/18/99	96585	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
05/18/99	96585	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
05/18/99	96585	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
05/18/99	96585	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
05/18/99	96585	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
05/18/99	96585	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
05/18/99	96585	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
05/18/99	96585	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
05/18/99	96585	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
05/18/99	96585	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
05/18/99	96585	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
05/18/99	96585	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
05/18/99	96585	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
05/18/99	96585	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
05/18/99	96585	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
05/18/99	96585	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
05/18/99	96585	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
05/18/99	96585	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
05/18/99	96585	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
05/18/99	96585	(ML/EPA 524.2)	Carbon Tetrachloride	3.6	ug/l	0.50	1
05/18/99	96585	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
05/18/99	96585	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Laboratory**Report****#54352**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	05/18/99	96585	(ML/EPA 524.2)	Chloroform (Trichloromethane)	1.1	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Dichloromethane	0.7	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	2.5	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Trichloroethylene (TCE)	1.6	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	05/18/99	96585	(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	101	% Rec		
			(Surrogate)	Toluene-d8	99	% Rec		

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**Laboratory
 Report
 #54352**

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-992-047 (990517080) Sampled on 05/17/99								
	05/26/99	96813	(ML/SM2320B)	Alkalinity	187	mg/l	2.0	1
	05/27/99		(ML/SM1040)	Anion Sum	4.90	meq/l	0.0010	1
05/25/99	05/27/99	96873	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
05/27/99	05/27/99	96841	(ML/EPA 200.7)	Calcium, Total, ICAP	49.3	mg/l	1.0	1
	05/28/99		(ML/SM1040)	Cation Sum	5.03	meq/l	0.0010	1
	05/18/99	96545	(ML/EPA 300)	Chloride	11.9	mg/l	1.0	1
	06/03/99	97115	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	05/28/99		(ML/SM2320B)	Carbonate as CO3, Calculated	2.34	mg/l	0.0010	1
05/25/99	05/26/99	96798	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	05/17/99	96412	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	05/21/99	96576	(ML/S2510B)	Specific Conductance	430	umho/cm	4.0	1
05/25/99	05/26/99	96802	(EPA/ML 200.8)	Iron, Total, ICAP/MS	ND	ug/l	100	1
	05/28/99		(ML/SM2320B)	Bicarbonate as HCO3,calculated	227	mg/l	0.0010	1
05/27/99	05/27/99	96844	(ML/EPA 200.7)	Potassium, Total, ICAP	2.9	mg/l	1.0	1
05/27/99	05/27/99	96846	(ML/EPA 200.7)	Magnesium, Total, ICAP	18.7	mg/l	0.10	1
05/27/99	05/27/99	96848	(ML/EPA 200.7)	Sodium, Total, ICAP	21.8	mg/l	1.0	1
	05/18/99	96549	(ML/EPA 300.0)	Nitrate-N by IC	0.83	mg/l	0.10	1
05/25/99	05/26/99	96806	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	05/18/99	96489	(ML/SM 4500HB)	Lab pH	8.2	Units	0.0010	1
	05/18/99	96553	(ML/EPA 300.0)	Sulfate	36.6	mg/l	2.0	1
	05/21/99	96613	(ML/SM2540C)	Total Dissolved Solid (TDS)	270	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	05/18/99	96585	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1

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**Laboratory
Report
#54352**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	05/18/99	96585	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	05/18/99	96585	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	05/18/99	96585	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Chloroform (Trichloromethane)	2.5	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Dichloromethane	0.6	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1

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Laboratory**Report****#54352****Foster Wheeler Environmental, Inc**
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	05/18/99	96585	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Trichloroethylene (TCE)	1.1	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	05/18/99	96585	(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	108	% Rec		
			(Surrogate)	Toluene-d8	99	% Rec		

MW-992-046 (990517081)**Sampled on 05/17/99**

	05/26/99	96813	(ML/SM2320B)	Alkalinity	177	mg/l	2.0	1
	05/27/99		(ML/SM1040)	Anion Sum	4.68	meq/l	0.0010	1
05/25/99	05/27/99	96873	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
05/27/99	05/27/99	96841	(ML/EPA 200.7)	Calcium, Total, ICAP	49.4	mg/l	1.0	1
	05/28/99		(ML/SM1040)	Cation Sum	4.72	meq/l	0.0010	1
	05/18/99	96545	(ML/EPA 300)	Chloride	10.8	mg/l	1.0	1
	06/03/99	97115	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	05/28/99		(ML/SM2320B)	Carbonate as CO3, Calculated	0.559	mg/l	0.0010	1
05/25/99	05/26/99	96798	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	05/17/99	96412	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	05/21/99	96576	(ML/S2510B)	Specific Conductance	415	umho/cm	4.0	1
05/25/99	05/26/99	96802	(EPA/ML 200.8)	Iron, Total, ICAP/MS	330	ug/l	100	1
	05/28/99		(ML/SM2320B)	Bicarbonate as HCO3,calculated	216	mg/l	0.0010	1
05/27/99	05/27/99	96844	(ML/EPA 200.7)	Potassium, Total, ICAP	2.6	mg/l	1.0	1
05/27/99	05/27/99	96846	(ML/EPA 200.7)	Magnesium, Total, ICAP	16.7	mg/l	0.10	1
05/27/99	05/27/99	96848	(ML/EPA 200.7)	Sodium, Total, ICAP	18.6	mg/l	1.0	1
	05/18/99	96549	(ML/EPA 300.0)	Nitrate-N by IC	1.10	mg/l	0.10	1

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Laboratory**Report****#54352**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
05/25/99	05/26/99	96806	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	05/18/99	96489	(ML/SM 4500HB)	Lab pH	7.6	Units	0.0010	1
	05/18/99	96553	(ML/EPA 300.0)	Sulfate	36.4	mg/l	2.0	1
	05/21/99	96613	(ML/SM2540C)	Total Dissolved Solid (TDS)	270	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	05/18/99	96585	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	05/18/99	96585	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	05/18/99	96585	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Chloroform (Trichloromethane)	0.8	ug/l	0.50	1

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**Laboratory
Report
#54352****Foster Wheeler Environmental, Inc
(continued)**

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	05/18/99	96585	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	05/18/99	96585	(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	108	% Rec		
			(Surrogate)	Toluene-d8	108	% Rec		

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**Laboratory
 Report
 #54352**

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-992-045 (990517082) Sampled on 05/17/99								
	05/26/99	96813	(ML/SM2320B)	Alkalinity	137	mg/l	2.0	1
	05/27/99		(ML/SM1040)	Anion Sum	3.45	meq/l	0.0010	1
05/25/99	05/27/99	96873	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
05/27/99	05/27/99	96841	(ML/EPA 200.7)	Calcium, Total, ICAP	36.6	mg/l	1.0	1
	05/28/99		(ML/SM1040)	Cation Sum	3.52	meq/l	0.0010	1
	05/18/99	96545	(ML/EPA 300)	Chloride	5.05	mg/l	1.0	1
	06/03/99	97115	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	05/28/99		(ML/SM2320B)	Carbonate as CO3, Calculated	0.172	mg/l	0.0010	1
05/25/99	05/26/99	96798	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	05/17/99	96412	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	05/21/99	96576	(ML/S2510B)	Specific Conductance	320	umho/cm	4.0	1
05/25/99	05/26/99	96802	(EPA/ML 200.8)	Iron, Total, ICAP/MS	160	ug/l	100	1
	05/28/99		(ML/SM2320B)	Bicarbonate as HCO3,calculated	167	mg/l	0.0010	1
05/27/99	05/27/99	96844	(ML/EPA 200.7)	Potassium, Total, ICAP	2.2	mg/l	1.0	1
05/27/99	05/27/99	96846	(ML/EPA 200.7)	Magnesium, Total, ICAP	12.6	mg/l	0.10	1
05/27/99	05/27/99	96848	(ML/EPA 200.7)	Sodium, Total, ICAP	13.8	mg/l	1.0	1
	05/18/99	96549	(ML/EPA 300.0)	Nitrate-N by IC	0.56	mg/l	0.10	1
05/25/99	05/26/99	96806	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	05/18/99	96489	(ML/SM 4500HB)	Lab pH	7.2	Units	0.0010	1
	05/18/99	96553	(ML/EPA 300.0)	Sulfate	25.2	mg/l	2.0	1
	05/21/99	96613	(ML/SM2540C)	Total Dissolved Solid (TDS)	210	mg/l	10	1

Regulated VOCs plus Lists 1&3

05/18/99	96585	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
05/18/99	96585	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
05/18/99	96585	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
05/18/99	96585	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
05/18/99	96585	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
05/18/99	96585	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
05/18/99	96585	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
05/18/99	96585	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
05/18/99	96585	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
05/18/99	96585	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
05/18/99	96585	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1

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Laboratory**Report****#54352**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	05/18/99	96585	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	05/18/99	96585	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	05/18/99	96585	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1

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**Laboratory
Report
#54352**

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	05/18/99	96585	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	05/18/99	96585	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	05/18/99	96585	(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	106	% Rec		
			(Surrogate)	Toluene-d8	107	% Rec		

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QC Batch #96412**Hexavalent chromium (Cr VI)**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0517082		(0.00 - 0.00)	
LCS1	Hexavalent chromium (Cr VI)	0.050	0.0498	99.6	(78.00 - 118.00)	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.0498	99.6	(78.00 - 118.00)	0.00
MBLK	Hexavalent chromium (Cr VI)	ND				
MS	Hexavalent chromium (Cr VI)	0.050	0.0504	100.8	(80.00 - 120.00)	
MSD	Hexavalent chromium (Cr VI)	0.050	0.0498	99.6	(80.00 - 120.00)	1.2

QC Batch #96489**Lab pH**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	lab # 99	0518169		(0.00 - 0.00)	

QC Batch #96545**Chloride**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0517078		(0.00 - 0.00)	
LCS1	Chloride	25	26.5	106.0	(90.00 - 110.00)	
LCS2	Chloride	25	26.4	105.6	(90.00 - 110.00)	0.38
MBLK	Chloride	ND				
MS	Chloride	25	27.1	108.4	(80.00 - 120.00)	
MSD	Chloride	25	27.0	108.0	(80.00 - 120.00)	0.37

QC Batch #96549**Nitrate-N by IC**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0517078		(0.00 - 0.00)	
LCS1	Nitrate-N by IC	2.5	2.41	96.4	(90.00 - 110.00)	
LCS2	Nitrate-N by IC	2.5	2.40	96.0	(90.00 - 110.00)	0.42
MBLK	Nitrate-N by IC	ND				
MS	Nitrate-N by IC	2.5	2.67	106.8	(80.00 - 120.00)	
MSD	Nitrate-N by IC	2.5	2.67	106.8	(80.00 - 120.00)	0.00

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QC Batch #96553**Sulfate**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0517078		(0.00 - 0.00)	
LCS1	Sulfate	50	52.3	104.6	(90.00 - 110.00)	
LCS2	Sulfate	50	51.9	103.8	(90.00 - 110.00)	0.77
MBLK	Sulfate	ND				
MS	Sulfate	50	52.1	104.2	(80.00 - 120.00)	
MSD	Sulfate	50	52.1	104.2	(80.00 - 120.00)	0.00

QC Batch #96576**Specific Conductance**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 99	0517082		(0.00 - 0.00)	

QC Batch #96585**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	3.85	96.2	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	3.78	94.5	(70.00 - 130.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	3.73	93.2	(70.00 - 130.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	4.39	109.7	(70.00 - 130.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	3.90	97.5	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MS	1,1-Dichloroethylene	4	3.63	90.8	(70.00 - 130.00)	
MSD	1,1-Dichloroethylene	4	3.61	90.2	(70.00 - 130.00)	0.55
MBLK	1,1-Dichloropropene	ND				
MBLK	1,2,3-Trichlorobenzene	ND				

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MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	4	3.69	92.2	(70.00 - 130.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	4	3.78	94.5	(70.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	4	3.98	99.5	(70.00 - 130.00)	
MBLK	1,2-Dichloropropane	ND				
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	8	7.04	88.0	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
LCS1	p-Dichlorobenzene (1,4-DCB)	4	3.84	96.0	(70.00 - 130.00)	
MBLK	p-Dichlorobenzene (1,4-DCB)	ND				
MBLK	2,2-Dichloropropane	ND				
MBLK	2-Butanone (MEK)	ND				
MBLK	2-Chloroethylvinylether	ND				
MBLK	o-Chlorotoluene	ND				
MBLK	p-Chlorotoluene	ND				
MBLK	4-Methyl-2-Pentanone (MIBK)	ND				
MS	Spiked sample	Lab # 99	0517080		(0.00 - 0.00)	
LCS1	Benzene	4	4.11	102.8	(70.00 - 130.00)	
MBLK	Benzene	ND				
MS	Benzene	4	3.86	96.5	(70.00 - 130.00)	
MSD	Benzene	4	3.81	95.2	(70.00 - 130.00)	1.3
MBLK	Bromobenzene	ND				
MBLK	Bromomethane (Methyl Bromide)	ND				
LCS1	cis-1,2-Dichloroethylene	4	4.24	106.0	(70.00 - 130.00)	
MBLK	cis-1,2-Dichloroethylene	ND				
LCS1	Chlorobenzene	4	3.85	96.2	(70.00 - 130.00)	
MBLK	Chlorobenzene	ND				
MS	Chlorobenzene	4	3.64	91.0	(70.00 - 130.00)	
MSD	Chlorobenzene	4	3.50	87.5	(70.00 - 130.00)	3.9
LCS1	Carbon Tetrachloride	4	3.95	98.8	(70.00 - 130.00)	
MBLK	Carbon Tetrachloride	ND				
MBLK	cis-1,3-Dichloropropene	ND				
LCS1	Bromoform	4	2.86	71.5	(70.00 - 130.00)	
MBLK	Bromoform	ND				

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LCS1	Chloroform (Trichloromethane)	4	3.71	92.8	(70.00 - 130.00)
MBLK	Chloroform (Trichloromethane)	ND			
MBLK	Bromochloromethane	ND			
MBLK	Chloroethane	ND			
MBLK	Chloromethane (Methyl Chloride)	ND			
LCS1	Chlorodibromomethane	4	3.60	90.0	(70.00 - 130.00)
MBLK	Chlorodibromomethane	ND			
MBLK	Dibromomethane	ND			
LCS1	Bromodichloromethane	4	3.61	90.2	(70.00 - 130.00)
MBLK	Bromodichloromethane	ND			
LCS1	Dichloromethane	4	3.64	91.0	(70.00 - 130.00)
MBLK	Dichloromethane	ND			
LCS1	Ethyl benzene	4	3.86	96.5	(70.00 - 130.00)
MBLK	Ethyl benzene	ND			
MBLK	Dichlorodifluoromethane	ND			
LCS1	Fluorotrichloromethane-Freon11	2	1.91	95.5	(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	8.12	101.5	(70.00 - 130.00)
MBLK	m,p-Xylenes	ND			
MBLK	Naphthalene	ND			
MBLK	n-Butylbenzene	ND			
MBLK	n-Propylbenzene	ND			
LCS1	o-Xylene	4	4.02	100.5	(70.00 - 130.00)
MBLK	o-Xylene	ND			
LCS1	o-Dichlorobenzene (1,2-DCB)	4	3.71	92.8	(70.00 - 130.00)
MBLK	o-Dichlorobenzene (1,2-DCB)	ND			
LCS1	Tetrachloroethylene (PCE)	4	4.02	100.5	(70.00 - 130.00)
MBLK	Tetrachloroethylene (PCE)	ND			
MBLK	p-Isopropyltoluene	ND			
MBLK	sec-Butylbenzene	ND			
LCS1	Styrene	4	3.84	96.0	(70.00 - 130.00)
MBLK	Styrene	ND			
LCS1	1,2-dichloroethane-d4	100	98.0	98.0	(80.00 - 120.00)
MBLK	1,2-dichloroethane-d4	100	96.6	97.0	

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MS	1,2-dichloroethane-d4	100	105	105.0	(80.00 - 120.00)	
MSD	1,2-dichloroethane-d4	100	104	104.0	(80.00 - 120.00)	0.96
LCS1	Toluene-d8	100	96.2	96.2	(80.00 - 120.00)	
MBLK	Toluene-d8	100	96.7	97.0		
MS	Toluene-d8	100	105	105.0	(80.00 - 120.00)	
MSD	Toluene-d8	100	105	105.0	(80.00 - 120.00)	0.00
LCS1	4-Bromofluorobenzene	100	102	102.0	(80.00 - 120.00)	
MBLK	4-Bromofluorobenzene	100	99.7	100.0		
MS	4-Bromofluorobenzene	100	99.8	99.8	(80.00 - 120.00)	
MSD	4-Bromofluorobenzene	100	103	103.0	(80.00 - 120.00)	3.2
LCS1	trans-1,2-Dichloroethylene	4	4.06	101.5	(70.00 - 130.00)	
MBLK	trans-1,2-Dichloroethylene	ND				
MBLK	tert-Butylbenzene	ND				
LCS1	Trichloroethylene (TCE)	4	3.98	99.5	(70.00 - 130.00)	
MBLK	Trichloroethylene (TCE)	ND				
MS	Trichloroethylene (TCE)	4	3.56	89.0	(70.00 - 130.00)	
MSD	Trichloroethylene (TCE)	4	3.83	95.8	(70.00 - 130.00)	7.3
LCS1	Trichlorotrifluoroethane (Freon	4	4.46	111.5	(70.00 - 130.00)	
MBLK	Trichlorotrifluoroethane (Freon	ND				
MBLK	trans-1,3-Dichloropropene	ND				
LCS1	Toluene	4	4.01	100.2	(70.00 - 130.00)	
MBLK	Toluene	ND				
MS	Toluene	4	3.83	95.8	(70.00 - 130.00)	
MSD	Toluene	4	3.68	92.0	(70.00 - 130.00)	4.0
LCS1	Vinyl chloride (VC)	2	2.31	115.5	(70.00 - 130.00)	
MBLK	Vinyl chloride (VC)	ND				

QC Batch #96613**Total Dissolved Solid (TDS)**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 99	0514120		(0.00 - 0.00)	
LCS1	Total Dissolved Solid (TDS)	175	168	96.0	(85.00 - 115.00)	
LCS2	Total Dissolved Solid (TDS)	700	692	98.9	(85.00 - 115.00)	
MBLK	Total Dissolved Solid (TDS)	ND				

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Foster Wheeler Environmental, Inc
(continued)**QC Batch #96798****Chromium, Total, ICAP/MS**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0517080		(0.00 - 0.00)	
LCS1	Chromium, Total, ICAP/MS	100	102	102.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	101	101.0	(85.00 - 115.00)	0.99
MBLK	Chromium, Total, ICAP/MS	ND				
MS	Chromium, Total, ICAP/MS	100	106	106.0	(70.00 - 130.00)	
MSD	Chromium, Total, ICAP/MS	100	102	102.0	(70.00 - 130.00)	3.8

QC Batch #96802**Iron, Total, ICAP/MS**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0517080		(0.00 - 0.00)	
LCS1	Iron, Total, ICAP/MS	500	470	94.0	(85.00 - 115.00)	
LCS2	Iron, Total, ICAP/MS	500	463	92.6	(85.00 - 115.00)	1.5
MBLK	Iron, Total, ICAP/MS	ND				
MS	Iron, Total, ICAP/MS	500	482	96.4	(70.00 - 130.00)	
MSD	Iron, Total, ICAP/MS	500	446	89.2	(70.00 - 130.00)	7.8

QC Batch #96806**Lead, Total, ICAP/MS**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0517080		(0.00 - 0.00)	
LCS1	Lead, Total, ICAP/MS	20.0	20.9	104.5	(85.00 - 115.00)	
LCS2	Lead, Total, ICAP/MS	20.0	19.9	99.5	(85.00 - 115.00)	4.9
MBLK	Lead, Total, ICAP/MS	ND				
MS	Lead, Total, ICAP/MS	20.0	21.2	106.0	(70.00 - 130.00)	
MSD	Lead, Total, ICAP/MS	20.0	19.9	99.5	(70.00 - 130.00)	6.3

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
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1 800 566 LABS (1 800 566 5227)

Laboratory
QC Report
#54352

Foster Wheeler Environmental, Inc
(continued)

QC Batch #96813**Alkalinity**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0517078		(0.00 - 0.00)	
LCS1	Alkalinity	96.2	99.5	103.4	(90.00 - 110.00)	
LCS2	Alkalinity	96.2	98.8	102.7	(90.00 - 110.00)	0.71
MBLK	Alkalinity	ND				
MS	Alkalinity	96.2	97.4	101.2	(80.00 - 120.00)	
MSD	Alkalinity	96.2	97.4	101.2	(80.00 - 120.00)	0.00

QC Batch #96841**Calcium, Total, ICAP**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0517078		(0.00 - 0.00)	
LCS1	Calcium, Total, ICAP	50	51.4	102.8	(85.00 - 115.00)	
LCS2	Calcium, Total, ICAP	50	51.4	102.8	(85.00 - 115.00)	0.00
MBLK	Calcium, Total, ICAP	ND				
MS	Calcium, Total, ICAP	50	52.2	104.4	(70.00 - 130.00)	
MSD	Calcium, Total, ICAP	50	51.7	103.4	(70.00 - 130.00)	0.96

QC Batch #96844**Potassium, Total, ICAP**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0517078		(0.00 - 0.00)	
LCS1	Potassium, Total, ICAP	20	20.3	101.5	(80.00 - 110.00)	
LCS2	Potassium, Total, ICAP	20	20.4	102.0	(80.00 - 110.00)	0.49
MBLK	Potassium, Total, ICAP	ND				
MS	Potassium, Total, ICAP	20	20.3	101.5	(80.00 - 120.00)	
MSD	Potassium, Total, ICAP	20	20.2	101.0	(80.00 - 120.00)	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.

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Laboratory

QC Report

#54352

Foster Wheeler Environmental, Inc
(continued)**QC Batch #96846****Magnesium, Total, ICAP**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0517078		(0.00 - 0.00)	
LCS1	Magnesium, Total, ICAP	20	20.9	104.5	(85.00 - 115.00)	
LCS2	Magnesium, Total, ICAP	20	20.9	104.5	(85.00 - 115.00)	0.00
MBLK	Magnesium, Total, ICAP	ND				
MS	Magnesium, Total, ICAP	20	21.4	107.0	(70.00 - 130.00)	
MSD	Magnesium, Total, ICAP	20	21.2	106.0	(70.00 - 130.00)	0.94

QC Batch #96848**Sodium, Total, ICAP**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0517078		(0.00 - 0.00)	
LCS1	Sodium, Total, ICAP	50	51.2	102.4	(85.00 - 115.00)	
LCS2	Sodium, Total, ICAP	50	51.3	102.6	(85.00 - 115.00)	0.20
MBLK	Sodium, Total, ICAP	ND				
MS	Sodium, Total, ICAP	50	50.1	100.2	(70.00 - 130.00)	
MSD	Sodium, Total, ICAP	50	48.6	97.2	(70.00 - 130.00)	3.0

QC Batch #96873**Arsenic, Total, GF**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0517080		(0.00 - 0.00)	
LCS1	Arsenic, Total, GF	0.020	0.0200	100.0	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.0201	100.5	(85.00 - 115.00)	0.50
MBLK	Arsenic, Total, GF	ND				
MS	Arsenic, Total, GF	0.020	0.0215	107.5	(70.00 - 130.00)	
MSD	Arsenic, Total, GF	0.020	0.0204	102.0	(70.00 - 130.00)	5.3

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****#54352**Foster Wheeler Environmental, Inc
(continued)**QC Batch #97115****Perchlorate**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0514117		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	20.4	102.0	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	20.5	102.5	(90.00 - 110.00)	0.49
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	20.6	103.0	(75.00 - 125.00)	
MSD	Perchlorate	20.0	20.8	104.0	(75.00 - 125.00)	0.97

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 10, 1999

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

Attention: Mark Cutler

Re: Report # 54383 (MW-992-084, MW-992-085, MW-992-054,
MW-992-053, MW-992-052, MW-992-051, MW-992-050)

Sampled: 5/18/99

Dear Mark,

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

Non-conformance (LCS, MS/MSD, Surrogates, and Holding Times)

None

Samples requiring dilution (with increased MRL's):

MW-992-051, -052, -054 were diluted for Anions.

Method blanks with compounds detected:

None

Comments:

Chloroform was detected in MW-992-085, -053

Methylene Chloride was detected in MW-992-054

Tetrachloroethylene was detected in sample MW-992-054, -052, -051

Trichloroethylene was detected in sample MW-992-053, -052, -051

Perchlorate was detected in MW-992-054, -052, -051

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 Novelty (JPL)

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4820 South Mill Avenue - Suite 202
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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#: 54383
 Project#: JPL
 Proj Mgr: Debbie Frank
 Phone: (714) 444-5526

The following samples were received from you on 05/18/99. 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
990518163	MW-992-084	@EBASVOA	Water	05/18/99
990518164	MW-992-085	@EBASVOA AS-EBAS CR-EBAS PB-EBAS CR-VI CLO4	Water	05/18/99
990518165	MW-992-054	@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	05/18/99
990518166	MW-992-053	@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	Water	05/18/99
990518167	MW-992-052	@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	05/18/99
990518168	MW-992-051	@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	05/18/99
990518169	MW-992-050	@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	05/18/99

Test Acronym Description

Test Acronym	Description
--------------	-------------

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

Customer Code: ENSERCH
PO#: Sub PO#007618-0006
Group#: 54383
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

Test Acronym Description

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



54383

NUMBER 1232

TEMP 9-15

REG ICE = OK

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF

PROJECT JPL		OFS NO. 1572 0276		HAZARD IDENTIFICATION Non Hazard ☒ Reactive ☐ Flammable ☐ Toxic ☐ Skin Irritant ☐ Infectious ☐		TIME REQUIRED NORMAL ☒ DAYS RUSH ☐ DAYS	
PROJECT ADDRESS 4800 OMC GILVE DR. PRASADA, CA				ANALYSES REQUIRED			
SAMPLER (Name) J. BILMNER		SAMPLER (Signature) [Signature]		VOCs (524.2)			
LABORATORY MONTEZOMBY WATSON LABS		REPORTS TO BE SENT TO MR MARK CUTLER		Total AS GC Pb (600/2)			
				Mn Pb Cu TDS			
				Hex Cr			
				ClO4			
				MS VOCs			
				MSD VOCs			
				MS MSD METALS			
				GC FIVE CR			
SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	WATER	SOIL	OTHER (Describe)
MW-991-084	0830	5/15/91	2	2x40ml	X		
MW-992-085	0900		5	2x40ml 1x25ml	X		
MW-991-084	0920		6	2x40ml 1x25ml	X		
MW-991-083	1050		6	2x40ml 1x25ml	X		
MW-991-082	1210		6	2x40ml 1x25ml	X		
MW-991-081MS	1210		2	2x40ml	X		
MW-991-081MS	1210		2	2x40ml	X		
MW-991-081	1315		6	2x40ml 1x25ml	X		
MW-991-080	1430		6	2x40ml 1x25ml	X		
LABORATORY INSTRUCTIONS/COMMENTS Level II QA/QC							
RELINQUISHED BY (Signature) [Signature]		DATE 5/15/91	RECEIVED BY (Signature) [Signature]		DATE 5/15/91	RECEIVED BY (Signature) [Signature]	
COMPANY Foster Wheeler		TIME 1:00	COMPANY Foster Wheeler		TIME 1:00	COMPANY Foster Wheeler	

MONTGOMERY LABORATORIES COOLER RECEIPT FORM

PROJECT: ENSERCH Date Received: 5-18-99
 Use other side of this form to note further details concerning check-in problems
 and to describe any action(s) regarding the resolution(s) of problems.

A. PRELIMINARY EXAMINATION: Date cooler opened: 5-18-99
 by (print) MARTIN L. DE MESA (sign) [Signature]

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

2. Were custody seals on outside of cooler? Yes No
 If YES, how many & where: 2 COOLER LID
 If Yes, enter the following: seal date: 5-18-99, seal name: T.T.

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

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

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

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

7. Was project identifiable from custody papers? Yes No

8. Have designated person(s) initial to acknowledge receipt: MLD (date) 5-18-99

B. LOG-IN PHASE: Date samples were logged-in: 5-18-99 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/in good condition? Yes No

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

14. Did all bottle labels agree with custody papers?
 If NO, indicate discrepancies 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, PR54383

			Result	MDL	UNITS
Analyzed	990518163	MW-992-084			
Analyzed	990518164	MW-992-085			
05/21/99	Chloroform (Trichloromethane)		1.2	.500	UGL
Analyzed	990518165	MW-992-054			
05/21/99	Dichloromethane		0.7	.500	UGL
05/21/99	Tetrachloroethylene (PCE)		2.1	.500	UGL
05/27/99	Alkalinity		214	2.000	MGL
06/07/99	Anion Sum		7.79	.001	MEQL
06/07/99	Bicarbonate as HCO ₃ ,calculated		261	.001	MGL
05/27/99	Calcium, Total, ICAP		76.3	1.000	MGL
06/07/99	Carbonate as CO ₃ , Calculated		0.850	.001	MGL
05/28/99	Cation Sum		7.74	.001	MEQL
05/20/99	Chloride		61.5	2.000	MGL
05/18/99	Lab pH		7.7	.001	UNIT
05/27/99	Magnesium, Total, ICAP		30.4	.100	MGL
05/20/99	Nitrate-N by IC		7.85	.200	MGL
06/03/99	Perchlorate		4.4	4.000	UGL
05/27/99	Potassium, Total, ICAP		2.3	1.000	MGL
05/27/99	Sodium, Total, ICAP		31.3	1.000	MGL
05/21/99	Specific Conductance		685	4.000	UMHO
05/20/99	Sulfate		58.3	4.000	MGL
05/21/99	Total Dissolved Solid (TDS)		430	10.000	MGL
Analyzed	990518166	MW-992-053			
05/21/99	Chloroform (Trichloromethane)		2.6	.500	UGL
05/21/99	Trichloroethylene (TCE)		0.7	.500	UGL
05/27/99	Alkalinity		178	2.000	MGL
06/07/99	Anion Sum		5.12	.001	MEQL
05/28/99	Bicarbonate as HCO ₃ ,calculated		217	.001	MGL
05/27/99	Calcium, Total, ICAP		49.0	1.000	MGL
05/28/99	Carbonate as CO ₃ , Calculated		0.707	.001	MGL
05/28/99	Cation Sum		5.20	.001	MEQL
05/20/99	Chloride		19.1	1.000	MGL
05/18/99	Lab pH		7.7	.001	UNIT
05/27/99	Magnesium, Total, ICAP		19.7	.100	MGL
05/20/99	Nitrate-N by IC		2.88	.100	MGL
05/27/99	Potassium, Total, ICAP		1.9	1.000	MGL
05/27/99	Sodium, Total, ICAP		24.8	1.000	MGL
05/21/99	Specific Conductance		445	4.000	UMHO
05/20/99	Sulfate		39.2	2.000	MGL
05/21/99	Total Dissolved Solid (TDS)		280	10.000	MGL
Analyzed	990518167	MW-992-052			
05/21/99	Tetrachloroethylene (PCE)		2.7	.500	UGL
05/21/99	Trichloroethylene (TCE)		0.9	.500	UGL
05/27/99	Alkalinity		244	2.000	MGL
06/07/99	Anion Sum		10.9	.001	MEQL
05/28/99	Bicarbonate as HCO ₃ ,calculated		298	.001	MGL
05/27/99	Calcium, Total, ICAP		115	1.000	MGL

05/28/99	Carbonate as CO ₃ , Calculated	0.386	.001	MGL
05/28/99	Cation Sum	10.8	.001	MEQL
05/20/99	Chloride	107	2.000	MGL
05/26/99	Iron, Total, ICAP/MS	185	*****	UGL
05/18/99	Lab pH	7.3	.001	UNIT
05/27/99	Magnesium, Total, ICAP	42.9	.100	MGL
05/20/99	Nitrate-N by IC	10.6	.200	MGL
06/03/99	Perchlorate	7.2	4.000	UGL
05/27/99	Potassium, Total, ICAP	2.8	1.000	MGL
05/27/99	Sodium, Total, ICAP	32.3	1.000	MGL
05/21/99	Specific Conductance	945	4.000	UMHO
05/20/99	Sulfate	109	4.000	MGL
05/21/99	Total Dissolved Solid (TDS)	520	10.000	MGL

Analyzed 990518168 MW-992-051

05/21/99	Tetrachloroethylene (PCE)	1.1	.500	UGL
05/21/99	Trichloroethylene (TCE)	1.3	.500	UGL
05/27/99	Alkalinity	204	2.000	MGL
06/07/99	Anion Sum	8.05	.001	MEQL
05/28/99	Bicarbonate as HCO ₃ ,calculated	249	.001	MGL
05/27/99	Calcium, Total, ICAP	86.6	1.000	MGL
05/28/99	Carbonate as CO ₃ , Calculated	0.102	.001	MGL
05/28/99	Cation Sum	8.05	.001	MEQL
05/20/99	Chloride	56.5	2.000	MGL
05/26/99	Iron, Total, ICAP/MS	970	*****	UGL
05/18/99	Lab pH	6.8	.001	UNIT
05/27/99	Magnesium, Total, ICAP	33.6	.100	MGL
05/20/99	Nitrate-N by IC	8.02	.200	MGL
06/03/99	Perchlorate	4.5	4.000	UGL
05/27/99	Potassium, Total, ICAP	2.2	1.000	MGL
05/27/99	Sodium, Total, ICAP	20.7	1.000	MGL
05/21/99	Specific Conductance	710	4.000	UMHO
05/20/99	Sulfate	86.7	4.000	MGL
05/25/99	Total Dissolved Solid (TDS)	450	10.000	MGL

Analyzed 990518169 MW-992-050

05/27/99	Alkalinity	131	2.000	MGL
06/07/99	Anion Sum	3.19	.001	MEQL
05/28/99	Bicarbonate as HCO ₃ ,calculated	160	.001	MGL
05/27/99	Calcium, Total, ICAP	34.8	1.000	MGL
05/28/99	Carbonate as CO ₃ , Calculated	0.261	.001	MGL
05/28/99	Cation Sum	3.29	.001	MEQL
05/20/99	Chloride	5.02	1.000	MGL
05/26/99	Iron, Total, ICAP/MS	1000	*****	UGL
05/18/99	Lab pH	7.4	.001	UNIT
05/27/99	Magnesium, Total, ICAP	11.7	.100	MGL
05/20/99	Nitrate-N by IC	0.24	.100	MGL
05/27/99	Potassium, Total, ICAP	2.1	1.000	MGL
05/27/99	Sodium, Total, ICAP	12.3	1.000	MGL
05/21/99	Specific Conductance	290	4.000	UMHO
05/20/99	Sulfate	19.9	2.000	MGL
05/25/99	Total Dissolved Solid (TDS)	170	10.000	MGL



MONTGOMERY WATSON LABORATORIES

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Laboratory Report

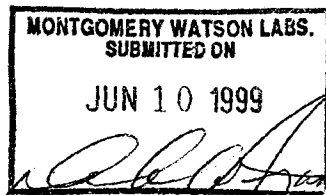
for

Foster Wheeler Environmental, Inc
611 Anton Boulevard

Suite 800

Costa Mesa , CA 92626

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



DEB* Debbie Frank

Report#: 54383
JPL



MONTGOMERY WATSON LABORATORIES

a Division of Montgomery Watson Americas, Inc.

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Tel: 626 568 6400 Fax: 626 568 6324

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Report
Comments
#54383

(990518165)

@EBASVOA

Sample reanalyzed on 5/22/99 and methylene chloride was confirmed in the reanalysis.

**MONTGOMERY WATSON LABORATORIES**

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**Laboratory
Report
#54383**

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

Samples Received
18-may-1999 16:08:15

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-992-084 (990518163)				Sampled on 05/18/99				
Regulated VOCs plus Lists 1&3								
05/21/99	96692		(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
05/21/99	96692		(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
05/21/99	96692		(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
05/21/99	96692		(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
05/21/99	96692		(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
05/21/99	96692		(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
05/21/99	96692		(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
05/21/99	96692		(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
05/21/99	96692		(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
05/21/99	96692		(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
05/21/99	96692		(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
05/21/99	96692		(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
05/21/99	96692		(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
05/21/99	96692		(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
05/21/99	96692		(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
05/21/99	96692		(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
05/21/99	96692		(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
05/21/99	96692		(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
05/21/99	96692		(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
05/21/99	96692		(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
05/21/99	96692		(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
05/21/99	96692		(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
05/21/99	96692		(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
05/21/99	96692		(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
05/21/99	96692		(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
05/21/99	96692		(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
05/21/99	96692		(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
05/21/99	96692		(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
05/21/99	96692		(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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**Laboratory
 Report
 #54383**

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-992-085 (990518164)			Sampled on 05/18/99					
05/25/99	05/27/99	96873	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	06/03/99	97115	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
05/25/99	05/26/99	96798	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	05/18/99	96414	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
05/25/99	05/26/99	96806	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
Regulated VOCs plus Lists 1&3								
	05/21/99	96692	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	05/21/99	96692	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	05/21/99	96692	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1

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Laboratory
Report
#54383

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	05/21/99	96692	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	05/21/99	96692	(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	111	% Rec		
			(Surrogate)	Toluene-d8	102	% Rec		

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Laboratory**Report****#54383**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	05/21/99	96692	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Chloroform (Trichloromethane)	1.2	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	105	% Rec		
			(Surrogate)	4-Bromofluorobenzene	105	% Rec		

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**Laboratory
Report
#54383**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
			(Surrogate)	Toluene-d8	104	% Rec		
MW-992-054 (990518165) Sampled on 05/18/99								
	05/27/99	96869	(ML/SM2320B)	Alkalinity	214	mg/l	2.0	1
	06/07/99		(ML/SM1040)	Anion Sum	7.79	meq/l	0.0010	1
05/25/99	05/27/99	96873	(S3113B/E200.9)	Arsenic, Total, GP	ND	mg/l	0.005	1
05/27/99	05/27/99	96841	(ML/EPA 200.7)	Calcium, Total, ICAP	76.3	mg/l	1.0	1
	05/28/99		(ML/SM1040)	Cation Sum	7.74	meq/l	0.0010	1
	05/20/99	96600	(ML/EPA 300)	Chloride	61.5	mg/l	2.0	2
	06/03/99	97115	(MOD/EPA 300)	Perchlorate	4.4	ug/l	4.0	1
	06/07/99		(ML/SM2320B)	Carbonate as CO3, Calculated	0.850	mg/l	0.0010	1
05/25/99	05/26/99	96798	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	05/18/99	96414	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	05/21/99	96577	(ML/S2510B)	Specific Conductance	685	umho/cm	4.0	1
05/25/99	05/26/99	96802	(EPA/ML 200.8)	Iron, Total, ICAP/MS	ND	ug/l	100	1
	06/07/99		(ML/SM2320B)	Bicarbonate as HCO3,calculated	261	mg/l	0.0010	1
05/27/99	05/27/99	96844	(ML/EPA 200.7)	Potassium, Total, ICAP	2.3	mg/l	1.0	1
05/27/99	05/27/99	96846	(ML/EPA 200.7)	Magnesium, Total, ICAP	30.4	mg/l	0.10	1
05/27/99	05/27/99	96848	(ML/EPA 200.7)	Sodium, Total, ICAP	31.3	mg/l	1.0	1
	05/20/99	96606	(ML/EPA 300.0)	Nitrate-N by IC	7.85	mg/l	0.20	2
05/25/99	05/26/99	96806	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	05/18/99	96489	(ML/SM 4500HB)	Lab pH	7.7	Units	0.0010	1
	05/20/99	96610	(ML/EPA 300.0)	Sulfate	58.3	mg/l	4.0	2
	05/21/99	96613	(ML/SM2540C)	Total Dissolved Solid (TDS)	430	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	05/21/99	96692	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1

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**Laboratory
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 #54383**

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	05/21/99	96692	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	05/21/99	96692	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	05/21/99	96692	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Dichloromethane	0.7	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1

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**Laboratory
Report
#54383**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	05/21/99	96692	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	2.1	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	105	% Rec		
			(Surrogate)	4-Bromofluorobenzene	96	% Rec		
			(Surrogate)	Toluene-d8	99	% Rec		

MW-992-053 (990518166) Sampled on 05/18/99

	05/27/99	96869	(ML/SM2320B)	Alkalinity	178	mg/l	2.0	1
	06/07/99		(ML/SM1040)	Anion Sum	5.12	meq/l	0.0010	1
05/25/99	05/27/99	96873	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
05/27/99	05/27/99	96841	(ML/EPA 200.7)	Calcium, Total, ICAP	49.0	mg/l	1.0	1
	05/28/99		(ML/SM1040)	Cation Sum	5.20	meq/l	0.0010	1
	05/20/99	96600	(ML/EPA 300)	Chloride	19.1	mg/l	1.0	1
	06/03/99	97115	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	05/28/99		(ML/SM2320B)	Carbonate as CO3, Calculated	0.707	mg/l	0.0010	1
05/25/99	05/26/99	96798	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	05/18/99	96414	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	05/21/99	96577	(ML/S2510B)	Specific Conductance	445	umho/cm	4.0	1
05/25/99	05/26/99	96802	(EPA/ML 200.8)	Iron, Total, ICAP/MS	ND	ug/l	100	1
	05/28/99		(ML/SM2320B)	Bicarbonate as HCO3,calculated	217	mg/l	0.0010	1
05/27/99	05/27/99	96844	(ML/EPA 200.7)	Potassium, Total, ICAP	1.9	mg/l	1.0	1
05/27/99	05/27/99	96846	(ML/EPA 200.7)	Magnesium, Total, ICAP	19.7	mg/l	0.10	1
05/27/99	05/27/99	96848	(ML/EPA 200.7)	Sodium, Total, ICAP	24.8	mg/l	1.0	1

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**Laboratory
 Report
 #54383**

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	05/20/99	96606	(ML/EPA 300.0)	Nitrate-N by IC	2.88	mg/l	0.10	1
05/25/99	05/26/99	96806	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	05/18/99	96489	(ML/SM 4500HB)	Lab pH	7.7	Units	0.0010	1
	05/20/99	96610	(ML/EPA 300.0)	Sulfate	39.2	mg/l	2.0	1
	05/21/99	96613	(ML/SM2540C)	Total Dissolved Solid (TDS)	280	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	05/21/99	96692	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	05/21/99	96692	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	05/21/99	96692	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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**Laboratory
Report
#54383**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	05/21/99	96692	(ML/EPA 524.2)	Chloroform (Trichloromethane)	2.6	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Trichloroethylene (TCE)	0.7	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	05/21/99	96692	(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	103	% Rec		

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Laboratory**Report****#54383**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-992-052 (990518167) Sampled on 05/18/99								
	05/27/99	96869	(ML/SM2320B)	Alkalinity	244	mg/l	2.0	1
	06/07/99		(ML/SM1040)	Anion Sum	10.9	meq/l	0.0010	1
05/25/99	05/27/99	96873	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
05/27/99	05/27/99	96841	(ML/EPA 200.7)	Calcium, Total, ICAP	115	mg/l	1.0	1
	05/28/99		(ML/SM1040)	Cation Sum	10.8	meq/l	0.0010	1
	05/20/99	96600	(ML/EPA 300)	Chloride	107	mg/l	2.0	2
	06/03/99	97115	(MOD/EPA 300)	Perchlorate	7.2	ug/l	4.0	1
	05/28/99		(ML/SM2320B)	Carbonate as CO ₃ , Calculated	0.386	mg/l	0.0010	1
05/25/99	05/26/99	96798	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	05/18/99	96414	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	05/21/99	96577	(ML/S2510B)	Specific Conductance	945	umho/cm	4.0	1
05/25/99	05/26/99	96802	(EPA/ML 200.8)	Iron, Total, ICAP/MS	185	ug/l	100	1
	05/28/99		(ML/SM2320B)	Bicarbonate as HCO ₃ , calculated	298	mg/l	0.0010	1
05/27/99	05/27/99	96844	(ML/EPA 200.7)	Potassium, Total, ICAP	2.8	mg/l	1.0	1
05/27/99	05/27/99	96846	(ML/EPA 200.7)	Magnesium, Total, ICAP	42.9	mg/l	0.10	1
05/27/99	05/27/99	96848	(ML/EPA 200.7)	Sodium, Total, ICAP	32.3	mg/l	1.0	1
	05/20/99	96606	(ML/EPA 300.0)	Nitrate-N by IC	10.6	mg/l	0.20	2
05/25/99	05/26/99	96806	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	05/18/99	96489	(ML/SM 4500HB)	Lab pH	7.3	Units	0.0010	1
	05/20/99	96610	(ML/EPA 300.0)	Sulfate	109	mg/l	4.0	2
	05/21/99	96613	(ML/SM2540C)	Total Dissolved Solid (TDS)	520	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	05/21/99	96692	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1

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**Laboratory
Report
#54383**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	05/21/99	96692	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	05/21/99	96692	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	05/21/99	96692	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1

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Laboratory**Report****#54383**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	05/21/99	96692	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	2.7	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Trichloroethylene (TCE)	0.9	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon)	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	05/21/99	96692	(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	93	% Rec		
			(Surrogate)	Toluene-d8	104	% Rec		

MW-992-051 (990518168)**Sampled on 05/18/99**

	05/27/99	96869	(ML/SM2320B)	Alkalinity	204	mg/l	2.0	1
	06/07/99		(ML/SM1040)	Anion Sum	8.05	meq/l	0.0010	1
05/25/99	05/27/99	96873	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
05/27/99	05/27/99	96841	(ML/EPA 200.7)	Calcium, Total, ICAP	86.6	mg/l	1.0	1
	05/28/99		(ML/SM1040)	Cation Sum	8.05	meq/l	0.0010	1
	05/20/99	96600	(ML/EPA 300)	Chloride	56.5	mg/l	2.0	2
	06/03/99	97115	(MOD/EPA 300)	Perchlorate	4.5	ug/l	4.0	1
	05/28/99		(ML/SM2320B)	Carbonate as CO3, Calculated	0.102	mg/l	0.0010	1
05/25/99	05/26/99	96798	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	05/18/99	96414	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	05/21/99	96577	(ML/S2510B)	Specific Conductance	710	umho/cm	4.0	1
05/25/99	05/26/99	96802	(EPA/ML 200.8)	Iron, Total, ICAP/MS	970	ug/l	100	1
	05/28/99		(ML/SM2320B)	Bicarbonate as HCO3, calculated	249	mg/l	0.0010	1
05/27/99	05/27/99	96844	(ML/EPA 200.7)	Potassium, Total, ICAP	2.2	mg/l	1.0	1
05/27/99	05/27/99	96846	(ML/EPA 200.7)	Magnesium, Total, ICAP	33.6	mg/l	0.10	1
05/27/99	05/27/99	96848	(ML/EPA 200.7)	Sodium, Total, ICAP	20.7	mg/l	1.0	1
	05/20/99	96606	(ML/EPA 300.0)	Nitrate-N by IC	8.02	mg/l	0.20	2

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**Laboratory
 Report
 #54383**

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
05/25/99	05/26/99	96806	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	05/18/99	96489	(ML/SM 4500HB)	Lab pH	6.8	Units	0.0010	1
	05/20/99	96610	(ML/EPA 300.0)	Sulfate	86.7	mg/l	4.0	2
	05/25/99	96817	(ML/SM2540C)	Total Dissolved Solid (TDS)	450	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	05/21/99	96692	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	05/21/99	96692	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	05/21/99	96692	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1

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Laboratory**Report****#54383**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	05/21/99	96692	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	1.1	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Trichloroethylene (TCE)	1.3	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	05/21/99	96692	(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		

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**Laboratory
Report
#54383**

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-992-050 (990518169) Sampled on 05/18/99								
	05/27/99	96869	(ML/SM2320B)	Alkalinity	131	mg/l	2.0	1
	06/07/99		(ML/SM1040)	Anion Sum	3.19	meq/l	0.0010	1
05/25/99	05/27/99	96873	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
05/27/99	05/27/99	96841	(ML/EPA 200.7)	Calcium, Total, ICAP	34.8	mg/l	1.0	1
	05/28/99		(ML/SM1040)	Cation Sum	3.29	meq/l	0.0010	1
	05/20/99	96600	(ML/EPA 300)	Chloride	5.02	mg/l	1.0	1
	06/03/99	97115	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	05/28/99		(ML/SM2320B)	Carbonate as CO ₃ , Calculated	0.261	mg/l	0.0010	1
05/25/99	05/26/99	96798	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	05/18/99	96414	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	05/21/99	96577	(ML/S2510B)	Specific Conductance	290	umho/cm	4.0	1
05/25/99	05/26/99	96802	(EPA/ML 200.8)	Iron, Total, ICAP/MS	1000	ug/l	100	1
	05/28/99		(ML/SM2320B)	Bicarbonate as HCO ₃ , calculated	160	mg/l	0.0010	1
05/27/99	05/27/99	96844	(ML/EPA 200.7)	Potassium, Total, ICAP	2.1	mg/l	1.0	1
05/27/99	05/27/99	96846	(ML/EPA 200.7)	Magnesium, Total, ICAP	11.7	mg/l	0.10	1
05/27/99	05/27/99	96848	(ML/EPA 200.7)	Sodium, Total, ICAP	12.3	mg/l	1.0	1
	05/20/99	96606	(ML/EPA 300.0)	Nitrate-N by IC	0.24	mg/l	0.10	1
05/25/99	05/26/99	96806	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	05/18/99	96489	(ML/SM 4500HB)	Lab pH	7.4	Units	0.0010	1
	05/20/99	96610	(ML/EPA 300.0)	Sulfate	19.9	mg/l	2.0	1
	05/25/99	96817	(ML/SM2540C)	Total Dissolved Solid (TDS)	170	mg/l	10	1

Regulated VOCs plus Lists 1&3

05/21/99	96692	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
05/21/99	96692	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
05/21/99	96692	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
05/21/99	96692	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
05/21/99	96692	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
05/21/99	96692	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
05/21/99	96692	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
05/21/99	96692	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
05/21/99	96692	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
05/21/99	96692	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
05/21/99	96692	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1

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Laboratory**Report****#54383****Foster Wheeler Environmental, Inc**
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	05/21/99	96692	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	05/21/99	96692	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	05/21/99	96692	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	05/21/99	96692	(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
	05/21/99	96692	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	05/21/99	96692	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	05/21/99	96692	(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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QC Batch #96414**Hexavalent chromium (Cr VI)**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0518168		(0.00 - 0.00)	
LCS1	Hexavalent chromium (Cr VI)	0.050	0.0506	101.2	(78.00 - 118.00)	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.0499	99.8	(78.00 - 118.00)	1.4
MBLK	Hexavalent chromium (Cr VI)	ND				
MS	Hexavalent chromium (Cr VI)	0.050	0.0499	99.8	(80.00 - 120.00)	
MSD	Hexavalent chromium (Cr VI)	0.050	0.0493	98.6	(80.00 - 120.00)	1.2

QC Batch #96489**Lab pH**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	lab # 99	0518196		(0.00 - 0.00)	

QC Batch #96577**Specific Conductance**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 99	0518196		(0.00 - 0.00)	

QC Batch #96600**Chloride**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0519080		(0.00 - 0.00)	
LCS1	Chloride	25	26.0	104.0	(90.00 - 110.00)	
LCS2	Chloride	25	26.0	104.0	(90.00 - 110.00)	0.00
MBLK	Chloride	ND				
MS	Chloride	25	26.5	106.0	(80.00 - 120.00)	
MSD	Chloride	25	26.6	106.4	(80.00 - 120.00)	0.38

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(continued)**QC Batch #96606****Nitrate-N by IC**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0518165		(0.00 - 0.00)	
LCS1	Nitrate-N by IC	2.5	2.70	108.0	(90.00 - 110.00)	
LCS2	Nitrate-N by IC	2.5	2.68	107.2	(90.00 - 110.00)	0.74
MBLK	Nitrate-N by IC	ND				
MS	Nitrate-N by IC	2.5	2.67	106.8	(80.00 - 120.00)	
MSD	Nitrate-N by IC	2.5	2.67	106.8	(80.00 - 120.00)	0.00

QC Batch #96610**Sulfate**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0518165		(0.00 - 0.00)	
LCS1	Sulfate	50	52.5	105.0	(90.00 - 110.00)	
LCS2	Sulfate	50	52.4	104.8	(90.00 - 110.00)	0.19
MBLK	Sulfate	ND				
MS	Sulfate	50	56.1	112.2	(80.00 - 120.00)	
MSD	Sulfate	50	56.2	112.4	(80.00 - 120.00)	0.18

QC Batch #96613**Total Dissolved Solid (TDS)**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 99	0514120		(0.00 - 0.00)	
LCS1	Total Dissolved Solid (TDS)	175	168	96.0	(85.00 - 115.00)	
LCS2	Total Dissolved Solid (TDS)	700	692	98.9	(85.00 - 115.00)	
MBLK	Total Dissolved Solid (TDS)	ND				

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Laboratory**QC Report****#54383**Foster Wheeler Environmental, Inc
(continued)**QC Batch #96692****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	3.92	98.0	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	3.75	93.8	(70.00 - 130.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	3.85	96.2	(70.00 - 130.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	4.36	109.0	(70.00 - 130.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	4.20	105.0	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MS	1,1-Dichloroethylene	4	3.63	90.8	(70.00 - 130.00)	
MSD	1,1-Dichloroethylene	4	3.61	90.2	(70.00 - 130.00)	0.55
MBLK	1,1-Dichloropropene	ND				
MBLK	1,2,3-Trichlorobenzene	ND				
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	4	3.67	91.8	(70.00 - 130.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	4	3.84	96.0	(70.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	4	3.89	97.2	(70.00 - 130.00)	
MBLK	1,2-Dichloropropane	ND				
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	8	7.22	90.2	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
LCS1	p-Dichlorobenzene (1,4-DCB)	4	3.91	97.8	(70.00 - 130.00)	
MBLK	p-Dichlorobenzene (1,4-DCB)	ND				
MBLK	2,2-Dichloropropane	ND				
MBLK	2-Butanone (MEK)	ND				
MBLK	2-Chloroethylvinylether	ND				
MBLK	o-Chlorotoluene	ND				

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MBLK	p-Chlorotoluene	ND				
MBLK	4-Methyl-2-Pentanone (MIBK)	ND				
MS	Spiked sample	Lab # 99 0517080			(0.00 - 0.00)	
LCS1	Benzene	4	4.16	104.0	(70.00 - 130.00)	
MBLK	Benzene	ND				
MS	Benzene	4	3.86	96.5	(70.00 - 130.00)	
MSD	Benzene	4	3.81	95.2	(70.00 - 130.00)	1.3
MBLK	Bromobenzene	ND				
MBLK	Bromomethane (Methyl Bromide)	ND				
LCS1	cis-1,2-Dichloroethylene	4	4.24	106.0	(70.00 - 130.00)	
MBLK	cis-1,2-Dichloroethylene	ND				
LCS1	Chlorobenzene	4	3.84	96.0	(70.00 - 130.00)	
MBLK	Chlorobenzene	ND				
MS	Chlorobenzene	4	3.64	91.0	(70.00 - 130.00)	
MSD	Chlorobenzene	4	3.50	87.5	(70.00 - 130.00)	3.9
LCS1	Carbon Tetrachloride	4	4.06	101.5	(70.00 - 130.00)	
MBLK	Carbon Tetrachloride	ND				
MBLK	cis-1,3-Dichloropropene	ND				
LCS1	Bromoform	4	2.95	73.8	(70.00 - 130.00)	
MBLK	Bromoform	ND				
LCS1	Chloroform (Trichloromethane)	4	3.43	85.8	(70.00 - 130.00)	
MBLK	Chloroform (Trichloromethane)	ND				
MBLK	Bromochloromethane	ND				
MBLK	Chloroethane	ND				
MBLK	Chloromethane (Methyl Chloride)	ND				
LCS1	Chlorodibromomethane	4	3.79	94.8	(70.00 - 130.00)	
MBLK	Chlorodibromomethane	ND				
MBLK	Dibromomethane	ND				
LCS1	Bromodichloromethane	4	3.62	90.5	(70.00 - 130.00)	
MBLK	Bromodichloromethane	ND				
LCS1	Dichloromethane	4	3.61	90.2	(70.00 - 130.00)	
MBLK	Dichloromethane	ND				
LCS1	Ethyl benzene	4	3.81	95.2	(70.00 - 130.00)	
MBLK	Ethyl benzene	ND				
MBLK	Dichlorodifluoromethane	ND				
LCS1	Fluorotrichloromethane-Freon11	2	1.91	95.5	(70.00 - 130.00)	
MBLK	Fluorotrichloromethane-Freon11	ND				

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MBLK	Hexachlorobutadiene	ND				
MBLK	Isopropylbenzene	ND				
MBLK	m-Dichlorobenzene (1,3-DCB)	ND				
LCS1	m,p-Xylenes	8	7.74	96.8	(70.00 - 130.00)	
MBLK	m,p-Xylenes	ND				
MBLK	Naphthalene	ND				
MBLK	n-Butylbenzene	ND				
MBLK	n-Propylbenzene	ND				
LCS1	o-Xylene	4	3.99	99.8	(70.00 - 130.00)	
MBLK	o-Xylene	ND				
LCS1	o-Dichlorobenzene (1,2-DCB)	4	3.63	90.8	(70.00 - 130.00)	
MBLK	o-Dichlorobenzene (1,2-DCB)	ND				
LCS1	Tetrachloroethylene (PCE)	4	4.07	101.8	(70.00 - 130.00)	
MBLK	Tetrachloroethylene (PCE)	ND				
MBLK	p-Isopropyltoluene	ND				
MBLK	sec-Butylbenzene	ND				
LCS1	Styrene	4	3.71	92.8	(70.00 - 130.00)	
MBLK	Styrene	ND				
LCS1	1,2-dichloroethane-d4	100	99.4	99.4	(80.00 - 120.00)	
MBLK	1,2-dichloroethane-d4	100	99.4	99.4		
MS	1,2-dichloroethane-d4	100	105	105.0	(80.00 - 120.00)	
MSD	1,2-dichloroethane-d4	100	104	104.0	(80.00 - 120.00)	0.96
LCS1	Toluene-d8	100	99.5	99.5	(80.00 - 120.00)	
MBLK	Toluene-d8	100	102	102.0		
MS	Toluene-d8	100	105	105.0	(80.00 - 120.00)	
MSD	Toluene-d8	100	105	105.0	(80.00 - 120.00)	0.00
LCS1	4-Bromofluorobenzene	100	102	102.0	(80.00 - 120.00)	
MBLK	4-Bromofluorobenzene	100	108	108.0		
MS	4-Bromofluorobenzene	100	99.8	99.8	(80.00 - 120.00)	
MSD	4-Bromofluorobenzene	100	103	103.0	(80.00 - 120.00)	3.2
LCS1	trans-1,2-Dichloroethylene	4	5.06	126.5	(70.00 - 130.00)	
MBLK	trans-1,2-Dichloroethylene	ND				
MBLK	tert-Butylbenzene	ND				
LCS1	Trichloroethylene (TCE)	4	3.83	95.8	(70.00 - 130.00)	
MBLK	Trichloroethylene (TCE)	ND				
MS	Trichloroethylene (TCE)	4	3.56	89.0	(70.00 - 130.00)	
MSD	Trichloroethylene (TCE)	4	3.83	95.8	(70.00 - 130.00)	7.3

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LCS1	Trichlorotrifluoroethane (Freon	2	2.41	120.5	(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	3.83	95.8	(70.00 - 130.00)	
MSD	Toluene	4	3.68	92.0	(70.00 - 130.00)	4.0
LCS1	Vinyl chloride (VC)	2	2.37	118.5	(70.00 - 130.00)	
MBLK	Vinyl chloride (VC)	ND				

QC Batch #96798**Chromium, Total, ICAP/MS**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0517080		(0.00 - 0.00)	
LCS1	Chromium, Total, ICAP/MS	100	102	102.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	101	101.0	(85.00 - 115.00)	0.99
MBLK	Chromium, Total, ICAP/MS	ND				
MS	Chromium, Total, ICAP/MS	100	106	106.0	(70.00 - 130.00)	
MSD	Chromium, Total, ICAP/MS	100	102	102.0	(70.00 - 130.00)	3.8

QC Batch #96802**Iron, Total, ICAP/MS**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0517080		(0.00 - 0.00)	
LCS1	Iron, Total, ICAP/MS	500	470	94.0	(85.00 - 115.00)	
LCS2	Iron, Total, ICAP/MS	500	463	92.6	(85.00 - 115.00)	1.5
MBLK	Iron, Total, ICAP/MS	ND				
MS	Iron, Total, ICAP/MS	500	482	96.4	(70.00 - 130.00)	
MSD	Iron, Total, ICAP/MS	500	446	89.2	(70.00 - 130.00)	7.8

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(continued)**QC Batch #96806****Lead, Total, ICAP/MS**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0517080		(0.00 - 0.00)	
LCS1	Lead, Total, ICAP/MS	20.0	20.9	104.5	(85.00 - 115.00)	
LCS2	Lead, Total, ICAP/MS	20.0	19.9	99.5	(85.00 - 115.00)	4.9
MBLK	Lead, Total, ICAP/MS	ND				
MS	Lead, Total, ICAP/MS	20.0	21.2	106.0	(70.00 - 130.00)	
MSD	Lead, Total, ICAP/MS	20.0	19.9	99.5	(70.00 - 130.00)	6.3

QC Batch #96817**Total Dissolved Solid (TDS)**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 99	0518168		(0.00 - 0.00)	
LCS1	Total Dissolved Solid (TDS)	175	168	96.0	(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 #96841**Calcium, Total, ICAP**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0517078		(0.00 - 0.00)	
LCS1	Calcium, Total, ICAP	50	51.4	102.8	(85.00 - 115.00)	
LCS2	Calcium, Total, ICAP	50	51.4	102.8	(85.00 - 115.00)	0.00
MBLK	Calcium, Total, ICAP	ND				
MS	Calcium, Total, ICAP	50	52.2	104.4	(70.00 - 130.00)	
MSD	Calcium, Total, ICAP	50	51.7	103.4	(70.00 - 130.00)	0.96

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QC Batch #96844**Potassium, Total, ICAP**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0517078		(0.00 - 0.00)	
LCS1	Potassium, Total, ICAP	20	20.3	101.5	(80.00 - 110.00)	
LCS2	Potassium, Total, ICAP	20	20.4	102.0	(80.00 - 110.00)	0.49
MBLK	Potassium, Total, ICAP	ND				
MS	Potassium, Total, ICAP	20	20.3	101.5	(80.00 - 120.00)	
MSD	Potassium, Total, ICAP	20	20.2	101.0	(80.00 - 120.00)	0.49

QC Batch #96846**Magnesium, Total, ICAP**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0517078		(0.00 - 0.00)	
LCS1	Magnesium, Total, ICAP	20	20.9	104.5	(85.00 - 115.00)	
LCS2	Magnesium, Total, ICAP	20	20.9	104.5	(85.00 - 115.00)	0.00
MBLK	Magnesium, Total, ICAP	ND				
MS	Magnesium, Total, ICAP	20	21.4	107.0	(70.00 - 130.00)	
MSD	Magnesium, Total, ICAP	20	21.2	106.0	(70.00 - 130.00)	0.94

QC Batch #96848**Sodium, Total, ICAP**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0517078		(0.00 - 0.00)	
LCS1	Sodium, Total, ICAP	50	51.2	102.4	(85.00 - 115.00)	
LCS2	Sodium, Total, ICAP	50	51.3	102.6	(85.00 - 115.00)	0.20
MBLK	Sodium, Total, ICAP	ND				
MS	Sodium, Total, ICAP	50	50.1	100.2	(70.00 - 130.00)	
MSD	Sodium, Total, ICAP	50	48.6	97.2	(70.00 - 130.00)	3.0

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Laboratory

QC Report

#54383

Foster Wheeler Environmental, Inc
(continued)**QC Batch #96869****Alkalinity**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0518165		(0.00 - 0.00)	
LCS1	Alkalinity	96.2	99.3	103.2	(90.00 - 110.00)	
LCS2	Alkalinity	96.2	99.2	103.1	(90.00 - 110.00)	0.10
MBLK	Alkalinity	ND				
MS	Alkalinity	96.2	96.2	100.0	(80.00 - 120.00)	
MSD	Alkalinity	96.2	96.2	100.0	(80.00 - 120.00)	0.00

QC Batch #96873**Arsenic, Total, GF**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0517080		(0.00 - 0.00)	
LCS1	Arsenic, Total, GF	0.020	0.0200	100.0	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.0201	100.5	(85.00 - 115.00)	0.50
MBLK	Arsenic, Total, GF	ND				
MS	Arsenic, Total, GF	0.020	0.0215	107.5	(70.00 - 130.00)	
MSD	Arsenic, Total, GF	0.020	0.0204	102.0	(70.00 - 130.00)	5.3

QC Batch #97115**Perchlorate**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0514117		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	20.4	102.0	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	20.5	102.5	(90.00 - 110.00)	0.49
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	20.6	103.0	(75.00 - 125.00)	
MSD	Perchlorate	20.0	20.8	104.0	(75.00 - 125.00)	0.97

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 10, 1999

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

Attention: Mark Cutler

Re: Report # 54427 (MW-992-086, MW-992-087, MW-992-006,
MW-992-005, MW-992-004, MW-992-003, MW-992-002, MW-992-
088)

Sampled: 5/19/99

Dear Mark,

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

Non-conformance (LCS, MS/MSD, Surrogates, and Holding Times)

None

Samples requiring dilution (with increased MRL's):

MW-992-004 was diluted for Carbon Tetrachloride and Chloroform.

Method blanks with compounds detected:

None

Comments:

Carbon Tetrachloride was detected in sample MW-992-004

Chloroform was detected in MW-992-087, -004, -088

Trichloroethylene was detected in sample MW-992-004

Trichlorotrifluoroethane was detected in MW-992-004

Arsenic was detected in sample MW-992-006

Perchlorate was detected in MW-992-006, -004

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
Group#: 54427
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

The following samples were received from you on 05/19/99. 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
990519074	MW-992-086	@EBASVOA	Water	05/19/99
990519075	MW-992-087	@EBASVOA AS-EBAS CR-EBAS PB-EBAS CR-VI CLO4	Water	05/19/99
990519076	MW-992-006	@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	05/19/99
990519077	MW-992-005	@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	05/19/99
990519078	MW-992-004	@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	05/19/99
990519079	MW-992-003	@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	05/19/99
990519080	MW-992-002	@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	05/19/99

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

Customer Code: ENSERCH
 Group#: 54427
 Project#: JPL
 Proj Mgr: Debbie Frank
 Phone: (714) 444-5526

Sample#	Sample Id	Tests Scheduled	Matrix	Sample Date
990519081	MW-992-088	@EBASVOA	Water	05/19/99

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
TDS	Total Dissolved Solid (TDS)



54427

NUMBER 2737

TEMP 6-11

REG 108 = OK.

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

PROJECT JPL		OFS NO 1572-0276		HAZARD IDENTIFICATION Non Hazard ☒ Reactive ☐ Flammable ☐ Toxic ☐ Skin Irritant ☐ Infectious ☐		TIME REQUIRED NORMAL ☒ DAYS RUSH ☐ DAYS												
PROJECT ADDRESS 4800 OAK GROVE DR, PASADENA, CA																		
SAMPLER (Name) T. Turpin Keasler		SAMPLER (Signature) <i>T. Turpin Keasler</i>		ANALYSES REQUIRED														
LABORATORY MONTGOMERY WATSON LABS				VOLs (524.2) TOTAL AS CR Pb (Lead/Pb) MAJOR ANIONS + TDS Hex Cr ClO ₄ MS FOR VOLs MSD FOR VOLs MS/MSD METALS QC FOR Cr														
REPORTS TO BE SENT TO MR. MARK CUTLER																		
SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL			VOLs (524.2)	TOTAL	AS CR Pb (Lead/Pb)	MAJOR	ANIONS + TDS	Hex Cr	ClO ₄	MS FOR VOLs	MSD FOR VOLs	MS/MSD METALS	QC FOR Cr
					WATER	SOIL	OTHER (Describe)											
MW-992-086	0820	5/17/99	2	2x40ml	X			990519074	X									
MW-992-087	0850	↓	5	2x40ml, 1x25ml 2x125ml	X			75	X	X			X	X				
MW-992-088	0900		6	2x40ml, 1x25ml 2x125ml, 1x25ml	X			76	X	X	X	X	X	X				
MW-992-089	1045		6		X			77	X	X	X	X	X					
MW-992-090	1200		6		X			78	X	X	X	X	X					X
MW-992-091	1305		6		X			79	X	X	X	X	X					
MW-992-092	1400		6	2x40ml, 2x25ml 2x125ml	X			80	X	X	X	X	X				X	
MW-992-093	1400		2	2x40ml	X									X				
MW-992-094	1400		2	2x40ml	X											X		
MW-992-095	1500	↓	2	2x40ml	X			81	X									
LABORATORY INSTRUCTIONS/COMMENTS LEVEL IV QA/QC																		
RELINQUISHED BY (Signature) <i>[Signature]</i>		DATE 5-17-99	RECEIVED BY (Signature) <i>M. De Rosa</i>		RELINQUISHED BY (Signature)		DATE 5-17-99	RECEIVED BY (Signature)										
COMPANY FW ENV		TIME 1:21	COMPANY M.W.		COMPANY		TIME	COMPANY										

MONTGOMERY LABORATORIES COOLER RECEIPT FORM

PROJECT: ENSERCH

Date Received: 5-19-99

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

A. PRELIMINARY EXAMINATION: Date cooler opened: 5-19-99
by (print) MARTIN L. DE MESA (sign) [Signature]

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

2. Were custody seals on outside of cooler? Yes No
If YES, how many & where: 2 TOP/LID OF COOLER
If Yes, enter the following: seal date: 5-19-99, seal name: J.B.

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

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

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

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

7. Was project identifiable from custody papers? Yes No

8. Have designated person(s) initial to acknowledge receipt: MLD (date) 5-19-99

B. LOG-IN PHASE: Date samples were logged-in: LXG by: LIM'S DOWN
(print) Linda Geddes (sign) [Signature]

9. Describe packing:

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

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

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

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

14. Did all bottle labels agree with custody papers?
If NO, indicate discrepancies 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, PR54427

			Result	MDL	UNITS
Analyzed	990519074	MW-992-086			
Analyzed	990519075	MW-992-087			
05/24/99	Chloroform (Trichloromethane)		1.1	.500	UGL
Analyzed	990519076	MW-992-006			
05/27/99	Alkalinity		124	2.000	MGL
06/07/99	Anion Sum		3.01	.001	MEQL
05/27/99	Arsenic, Total, GF		0.0057	.005	MGL
05/28/99	Bicarbonate as HCO ₃ ,calculated		139	.001	MGL
05/27/99	Calcium, Total, ICAP		3.3	1.000	MGL
05/28/99	Carbonate as CO ₃ , Calculated		28.6	.001	MGL
05/28/99	Cation Sum		3.25	.001	MEQL
05/20/99	Chloride		10.1	1.000	MGL
05/26/99	Iron, Total, ICAP/MS		320	*****	UGL
05/24/99	Lab pH		9.5	.001	UNIT
05/27/99	Magnesium, Total, ICAP		0.55	.100	MGL
06/03/99	Perchlorate		75	4.000	UGL
05/27/99	Sodium, Total, ICAP		69.9	1.000	MGL
05/21/99	Specific Conductance		305	4.000	UMHO
05/20/99	Sulfate		11.9	2.000	MGL
05/25/99	Total Dissolved Solid (TDS)		190	10.000	MGL
Analyzed	990519077	MW-992-005			
05/27/99	Alkalinity		155	2.000	MGL
06/07/99	Anion Sum		3.69	.001	MEQL
05/28/99	Bicarbonate as HCO ₃ ,calculated		187	.001	MGL
05/27/99	Calcium, Total, ICAP		17.1	1.000	MGL
05/28/99	Carbonate as CO ₃ , Calculated		3.84	.001	MGL
05/28/99	Cation Sum		3.70	.001	MEQL
05/20/99	Chloride		10.3	1.000	MGL
05/26/99	Iron, Total, ICAP/MS		270	*****	UGL
05/24/99	Lab pH		8.5	.001	UNIT
05/27/99	Magnesium, Total, ICAP		8.7	.100	MGL
05/20/99	Nitrate-N by IC		0.20	.100	MGL
05/27/99	Potassium, Total, ICAP		2.0	1.000	MGL
05/27/99	Sodium, Total, ICAP		47.7	1.000	MGL
05/21/99	Specific Conductance		330	4.000	UMHO
05/20/99	Sulfate		13.7	2.000	MGL
05/26/99	Total Dissolved Solid (TDS)		200	10.000	MGL
Analyzed	990519078	MW-992-004			
05/26/99	Carbon Tetrachloride		42	1.250	UGL
05/26/99	Chloroform (Trichloromethane)		26	1.250	UGL
05/24/99	Trichloroethylene (TCE)		1.3	.500	UGL
05/24/99	Trichlorotrifluoroethane (Freon)		1.0	.500	UGL
05/27/99	Alkalinity		163	2.000	MGL
06/07/99	Anion Sum		4.70	.001	MEQL
05/28/99	Bicarbonate as HCO ₃ ,calculated		197	.001	MGL
05/27/99	Calcium, Total, ICAP		26.4	1.000	MGL
05/28/99	Carbonate as CO ₃ , Calculated		4.05	.001	MGL

05/28/99	Cation Sum	4.61	.001	MEQL
05/20/99	Chloride	20.6	1.000	MGL
05/26/99	Iron, Total, ICAP/MS	185	*****	UGL
05/24/99	Lab pH	8.5	.001	UNIT
05/27/99	Magnesium, Total, ICAP	15.2	.100	MGL
05/20/99	Nitrate-N by IC	0.25	.100	MGL
06/03/99	Perchlorate	8.9	4.000	UGL
05/27/99	Potassium, Total, ICAP	3.2	1.000	MGL
05/27/99	Sodium, Total, ICAP	44.9	1.000	MGL
05/21/99	Specific Conductance	420	4.000	UMHO
05/20/99	Sulfate	40.3	2.000	MGL
05/26/99	Total Dissolved Solid (TDS)	240	10.000	MGL

Analyzed 990519079 MW-992-003

05/27/99	Alkalinity	197	2.000	MGL
06/07/99	Anion Sum	5.12	.001	MEQL
05/28/99	Bicarbonate as HCO ₃ ,calculated	240	.001	MGL
05/27/99	Calcium, Total, ICAP	54.1	1.000	MGL
05/28/99	Carbonate as CO ₃ , Calculated	0.782	.001	MGL
05/28/99	Cation Sum	5.19	.001	MEQL
05/20/99	Chloride	9.77	1.000	MGL
05/26/99	Iron, Total, ICAP/MS	240	*****	UGL
05/24/99	Lab pH	7.7	.001	UNIT
05/27/99	Magnesium, Total, ICAP	18.8	.100	MGL
05/20/99	Nitrate-N by IC	0.77	.100	MGL
05/27/99	Potassium, Total, ICAP	2.8	1.000	MGL
05/27/99	Sodium, Total, ICAP	20.0	1.000	MGL
05/21/99	Specific Conductance	450	4.000	UMHO
05/20/99	Sulfate	40.7	2.000	MGL
05/26/99	Total Dissolved Solid (TDS)	260	10.000	MGL

Analyzed 990519080 MW-992-002

05/27/99	Alkalinity	180	2.000	MGL
06/07/99	Anion Sum	4.60	.001	MEQL
05/28/99	Bicarbonate as HCO ₃ ,calculated	219	.001	MGL
05/27/99	Calcium, Total, ICAP	47.6	1.000	MGL
05/28/99	Carbonate as CO ₃ , Calculated	0.898	.001	MGL
05/28/99	Cation Sum	4.66	.001	MEQL
05/20/99	Chloride	8.59	1.000	MGL
05/26/99	Iron, Total, ICAP/MS	300	*****	UGL
05/24/99	Lab pH	7.8	.001	UNIT
05/27/99	Magnesium, Total, ICAP	16.4	.100	MGL
05/20/99	Nitrate-N by IC	1.44	.100	MGL
05/27/99	Potassium, Total, ICAP	2.7	1.000	MGL
05/27/99	Sodium, Total, ICAP	19.6	1.000	MGL
05/21/99	Specific Conductance	400	4.000	UMHO
05/20/99	Sulfate	31.6	2.000	MGL
05/26/99	Total Dissolved Solid (TDS)	260	10.000	MGL

Analyzed 990519081 MW-992-088

05/24/99	Chloroform (Trichloromethane)	1.2	.500	UGL
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MONTGOMERY WATSON LABORATORIES

a Division of Montgomery Watson Americas, Inc.

555 East Walnut Street

Pasadena, California 91101

Tel: 626 568 6400 Fax: 626 568 6324

1 800 566 LABS (1 800 566 5227)

Laboratory Report

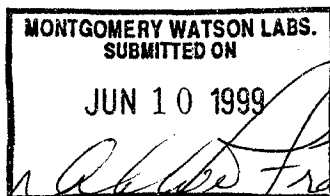
for

Foster Wheeler Environmental, Inc
611 Anton Boulevard

Suite 800

Costa Mesa , CA 92626

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



DEB* Debbie Frank

Report#: 54427
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****#54427**

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

Samples Received
19-may-1999 16:51:00

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-992-086 (990519074)				Sampled on 05/19/99				
Regulated VOCs plus Lists 1&3								
05/24/99	96767	(ML/EPA 524.2)		1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
05/24/99	96767	(ML/EPA 524.2)		1,1,1-Trichloroethane	ND	ug/l	0.50	1
05/24/99	96767	(ML/EPA 524.2)		1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
05/24/99	96767	(ML/EPA 524.2)		1,1,2-Trichloroethane	ND	ug/l	0.50	1
05/24/99	96767	(ML/EPA 524.2)		1,1-Dichloroethane	ND	ug/l	0.50	1
05/24/99	96767	(ML/EPA 524.2)		1,1-Dichloroethylene	ND	ug/l	0.50	1
05/24/99	96767	(ML/EPA 524.2)		1,1-Dichloropropene	ND	ug/l	0.50	1
05/24/99	96767	(ML/EPA 524.2)		1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
05/24/99	96767	(ML/EPA 524.2)		1,2,3-Trichloropropane	ND	ug/l	0.50	1
05/24/99	96767	(ML/EPA 524.2)		1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
05/24/99	96767	(ML/EPA 524.2)		1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
05/24/99	96767	(ML/EPA 524.2)		1,2-Dichloroethane	ND	ug/l	0.50	1
05/24/99	96767	(ML/EPA 524.2)		1,2-Dichloropropane	ND	ug/l	0.50	1
05/24/99	96767	(ML/EPA 524.2)		1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
05/24/99	96767	(ML/EPA 524.2)		1,3-Dichloropropane	ND	ug/l	0.50	1
05/24/99	96767	(ML/EPA 524.2)		p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
05/24/99	96767	(ML/EPA 524.2)		2,2-Dichloropropane	ND	ug/l	0.50	1
05/24/99	96767	(ML/EPA 524.2)		2-Butanone (MEK)	ND	ug/l	5.0	1
05/24/99	96767	(ML/EPA 524.2)		o-Chlorotoluene	ND	ug/l	0.50	1
05/24/99	96767	(ML/EPA 524.2)		p-Chlorotoluene	ND	ug/l	0.50	1
05/24/99	96767	(ML/EPA 524.2)		4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
05/24/99	96767	(ML/EPA 524.2)		Benzene	ND	ug/l	0.50	1
05/24/99	96767	(ML/EPA 524.2)		Bromobenzene	ND	ug/l	0.50	1
05/24/99	96767	(ML/EPA 524.2)		Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
05/24/99	96767	(ML/EPA 524.2)		cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
05/24/99	96767	(ML/EPA 524.2)		Chlorobenzene	ND	ug/l	0.50	1
05/24/99	96767	(ML/EPA 524.2)		Carbon Tetrachloride	ND	ug/l	0.50	1
05/24/99	96767	(ML/EPA 524.2)		cis-1,3-Dichloropropene	ND	ug/l	0.50	1
05/24/99	96767	(ML/EPA 524.2)		Bromoform	ND	ug/l	0.50	1

**MONTGOMERY WATSON LABORATORIES**

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 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
 #54427**

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	05/24/99	96767	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	05/24/99	96767	(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	94	% Rec		
			(Surrogate)	4-Bromofluorobenzene	112	% Rec		
			(Surrogate)	Toluene-d8	100	% Rec		

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Laboratory**Report****#54427**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-992-087 (990519075)				Sampled on 05/19/99				
05/25/99	05/27/99	96873	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	06/03/99	97115	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
05/25/99	05/26/99	96798	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	05/19/99	96589	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
05/25/99	05/26/99	96806	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
Regulated VOCs plus Lists 1&3								
	05/24/99	96767	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	05/24/99	96767	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	05/24/99	96767	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1

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Laboratory**Report****#54427****Foster Wheeler Environmental, Inc**
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	05/24/99	96767	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Chloroform (Trichloromethane)	1.1	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	104	% Rec		
			(Surrogate)	4-Bromofluorobenzene	103	% Rec		

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**Laboratory
 Report
 #54427**

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
			(Surrogate)	Toluene-d8	100	% Rec		
MW-992-006 (990519076)				Sampled on 05/19/99				
	05/27/99	96869	(ML/SM2320B)	Alkalinity	124	mg/l	2.0	1
	06/07/99		(ML/SM1040)	Anion Sum	3.01	meq/l	0.0010	1
05/25/99	05/27/99	96873	(S3113B/E200.9)	Arsenic, Total, GF	0.0057	mg/l	0.005	1
05/27/99	05/27/99	96841	(ML/EPA 200.7)	Calcium, Total, ICAP	3.3	mg/l	1.0	1
	05/28/99		(ML/SM1040)	Cation Sum	3.25	meq/l	0.0010	1
	05/20/99	96600	(ML/EPA 300)	Chloride	10.1	mg/l	1.0	1
	06/03/99	97115	(MOD/EPA 300)	Perchlorate	75	ug/l	4.0	1
	05/28/99		(ML/SM2320B)	Carbonate as CO3, Calculated	28.6	mg/l	0.0010	1
05/25/99	05/26/99	96798	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	05/19/99	96589	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	05/21/99	96578	(ML/S2510B)	Specific Conductance	305	umho/cm	4.0	1
05/25/99	05/26/99	96802	(EPA/ML 200.8)	Iron, Total, ICAP/MS	320	ug/l	100	1
	05/28/99		(ML/SM2320B)	Bicarbonate as HCO3,calculated	139	mg/l	0.0010	1
05/27/99	05/27/99	96844	(ML/EPA 200.7)	Potassium, Total, ICAP	ND	mg/l	1.0	1
05/27/99	05/27/99	96846	(ML/EPA 200.7)	Magnesium, Total, ICAP	0.55	mg/l	0.10	1
05/27/99	05/27/99	96848	(ML/EPA 200.7)	Sodium, Total, ICAP	69.9	mg/l	1.0	1
	05/20/99	96606	(ML/EPA 300.0)	Nitrate-N by IC	ND	mg/l	0.10	1
05/25/99	05/26/99	96806	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	05/24/99	96679	(ML/SM 4500HB)	Lab pH	9.5	Units	0.0010	1
	05/20/99	96611	(ML/EPA 300.0)	Sulfate	11.9	mg/l	2.0	1
	05/25/99	96817	(ML/SM2540C)	Total Dissolved Solid (TDS)	190	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	05/24/99	96767	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	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
	05/24/99	96767	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	05/24/99	96767	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	05/24/99	96767	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1

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Laboratory**Report****#54427****Foster Wheeler Environmental, Inc
(continued)**

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	05/24/99	96767	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon)	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	05/24/99	96767	(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	98	% Rec		
			(Surrogate)	Toluene-d8	97	% Rec		

MW-992-005 (990519077)**Sampled on 05/19/99**

	05/27/99	96869	(ML/SM2320B)	Alkalinity	155	mg/l	2.0	1
	06/07/99		(ML/SM1040)	Anion Sum	3.69	meq/l	0.0010	1
05/25/99	05/27/99	96873	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
05/27/99	05/27/99	96841	(ML/EPA 200.7)	Calcium, Total, ICAP	17.1	mg/l	1.0	1
	05/28/99		(ML/SM1040)	Cation Sum	3.70	meq/l	0.0010	1
	05/20/99	96600	(ML/EPA 300)	Chloride	10.3	mg/l	1.0	1
	06/03/99	97115	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	05/28/99		(ML/SM2320B)	Carbonate as CO3, Calculated	3.84	mg/l	0.0010	1
05/25/99	05/26/99	96798	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	05/19/99	96589	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	05/21/99	96582	(ML/S2510B)	Specific Conductance	330	umho/cm	4.0	1
05/25/99	05/26/99	96802	(EPA/ML 200.8)	Iron, Total, ICAP/MS	270	ug/l	100	1
	05/28/99		(ML/SM2320B)	Bicarbonate as HCO3,calculated	187	mg/l	0.0010	1
05/27/99	05/27/99	96844	(ML/EPA 200.7)	Potassium, Total, ICAP	2.0	mg/l	1.0	1
05/27/99	05/27/99	96846	(ML/EPA 200.7)	Magnesium, Total, ICAP	8.7	mg/l	0.10	1
05/27/99	05/27/99	96848	(ML/EPA 200.7)	Sodium, Total, ICAP	47.7	mg/l	1.0	1

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Laboratory**Report****#54427**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	05/20/99	96606	(ML/EPA 300.0)	Nitrate-N by IC	0.20	mg/l	0.10	1
05/25/99	05/26/99	96806	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	05/24/99	96679	(ML/SM 4500HB)	Lab pH	8.5	Units	0.0010	1
	05/20/99	96611	(ML/EPA 300.0)	Sulfate	13.7	mg/l	2.0	1
	05/26/99	97043	(ML/SM2540C)	Total Dissolved Solid (TDS)	200	mg/l	10	1

Regulated VOCs plus Lists 1&3

05/24/99	96767	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
05/24/99	96767	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
05/24/99	96767	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
05/24/99	96767	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
05/24/99	96767	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
05/24/99	96767	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
05/24/99	96767	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
05/24/99	96767	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
05/24/99	96767	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
05/24/99	96767	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
05/24/99	96767	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
05/24/99	96767	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
05/24/99	96767	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
05/24/99	96767	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
05/24/99	96767	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
05/24/99	96767	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
05/24/99	96767	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
05/24/99	96767	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
05/24/99	96767	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
05/24/99	96767	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
05/24/99	96767	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
05/24/99	96767	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
05/24/99	96767	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
05/24/99	96767	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
05/24/99	96767	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
05/24/99	96767	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
05/24/99	96767	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
05/24/99	96767	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
05/24/99	96767	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Laboratory**Report****#54427**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	05/24/99	96767	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	05/24/99	96767	(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	95	% Rec		
			(Surrogate)	Toluene-d8	100	% Rec		

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**Laboratory
 Report
 #54427**

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-992-004 (990519078) Sampled on 05/19/99								
	05/27/99	96869	(ML/SM2320B)	Alkalinity	163	mg/l	2.0	1
	06/07/99		(ML/SM1040)	Anion Sum	4.70	meq/l	0.0010	1
05/25/99	05/27/99	96873	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
05/27/99	05/27/99	96841	(ML/EPA 200.7)	Calcium, Total, ICAP	26.4	mg/l	1.0	1
	05/28/99		(ML/SM1040)	Cation Sum	4.61	meq/l	0.0010	1
	05/20/99	96600	(ML/EPA 300)	Chloride	20.6	mg/l	1.0	1
	06/03/99	97115	(MOD/EPA 300)	Perchlorate	8.9	ug/l	4.0	1
	05/28/99		(ML/SM2320B)	Carbonate as CO ₃ , Calculated	4.05	mg/l	0.0010	1
05/25/99	05/26/99	96798	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	05/19/99	96589	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	05/21/99	96582	(ML/S2510B)	Specific Conductance	420	umho/cm	4.0	1
05/25/99	05/26/99	96802	(EPA/ML 200.8)	Iron, Total, ICAP/MS	185	ug/l	100	1
	05/28/99		(ML/SM2320B)	Bicarbonate as HCO ₃ ,calculated	197	mg/l	0.0010	1
05/27/99	05/27/99	96844	(ML/EPA 200.7)	Potassium, Total, ICAP	3.2	mg/l	1.0	1
05/27/99	05/27/99	96846	(ML/EPA 200.7)	Magnesium, Total, ICAP	15.2	mg/l	0.10	1
05/27/99	05/27/99	96848	(ML/EPA 200.7)	Sodium, Total, ICAP	44.9	mg/l	1.0	1
	05/20/99	96606	(ML/EPA 300.0)	Nitrate-N by IC	0.25	mg/l	0.10	1
05/25/99	05/26/99	96806	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	05/24/99	96679	(ML/SM 4500HB)	Lab pH	8.5	Units	0.0010	1
	05/20/99	96611	(ML/EPA 300.0)	Sulfate	40.3	mg/l	2.0	1
	05/26/99	97043	(ML/SM2540C)	Total Dissolved Solid (TDS)	240	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	05/24/99	96767	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1

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Laboratory**Report****#54427**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	05/24/99	96767	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	05/24/99	96767	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	05/24/99	96767	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	05/26/99	96767	(ML/EPA 524.2)	Carbon Tetrachloride	42	ug/l	1.2	2.5
	05/24/99	96767	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	05/26/99	96767	(ML/EPA 524.2)	Chloroform (Trichloromethane)	26	ug/l	1.2	2.5
	05/24/99	96767	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1

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**Laboratory
 Report
 #54427**

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	05/24/99	96767	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Trichloroethylene (TCE)	1.3	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	1.0	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	05/24/99	96767	(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	95	% Rec		
			(Surrogate)	Toluene-d8	95	% Rec		

MW-992-003 (990519079) Sampled on 05/19/99

	05/27/99	96869	(ML/SM2320B)	Alkalinity	197	mg/l	2.0	1
	06/07/99		(ML/SM1040)	Anion Sum	5.12	meq/l	0.0010	1
05/25/99	05/27/99	96873	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
05/27/99	05/27/99	96841	(ML/EPA 200.7)	Calcium, Total, ICAP	54.1	mg/l	1.0	1
	05/28/99		(ML/SM1040)	Cation Sum	5.19	meq/l	0.0010	1
	05/20/99	96600	(ML/EPA 300)	Chloride	9.77	mg/l	1.0	1
	06/03/99	97115	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	05/28/99		(ML/SM2320B)	Carbonate as CO3, Calculated	0.782	mg/l	0.0010	1
05/25/99	05/26/99	96798	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	05/19/99	96589	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	05/21/99	96582	(ML/S2510B)	Specific Conductance	450	umho/cm	4.0	1
05/25/99	05/26/99	96802	(EPA/ML 200.8)	Iron, Total, ICAP/MS	240	ug/l	100	1
	05/28/99		(ML/SM2320B)	Bicarbonate as HCO3,calculated	240	mg/l	0.0010	1
05/27/99	05/27/99	96844	(ML/EPA 200.7)	Potassium, Total, ICAP	2.8	mg/l	1.0	1
05/27/99	05/27/99	96846	(ML/EPA 200.7)	Magnesium, Total, ICAP	18.8	mg/l	0.10	1
05/27/99	05/27/99	96848	(ML/EPA 200.7)	Sodium, Total, ICAP	20.0	mg/l	1.0	1
	05/20/99	96606	(ML/EPA 300.0)	Nitrate-N by IC	0.77	mg/l	0.10	1

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1 800 566 LABS (1 800 566 5227)

**Laboratory
Report
#54427**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
05/25/99	05/26/99	96806	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	05/24/99	96679	(ML/SM 4500HB)	Lab pH	7.7	Units	0.0010	1
	05/20/99	96611	(ML/EPA 300.0)	Sulfate	40.7	mg/l	2.0	1
	05/26/99	97043	(ML/SM2540C)	Total Dissolved Solid (TDS)	260	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	05/24/99	96767	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	05/24/99	96767	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	05/24/99	96767	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1

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Laboratory**Report****#54427**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	05/24/99	96767	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/ES24.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	05/24/99	96767	(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	96	% Rec		
			(Surrogate)	Toluene-d8	101	% Rec		

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Laboratory**Report****#54427**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-992-002 (990519080)					Sampled on 05/19/99			
	05/27/99	96869	(ML/SM2320B)	Alkalinity	180	mg/l	2.0	1
	06/07/99		(ML/SM1040)	Anion Sum	4.60	meq/l	0.0010	1
05/25/99	05/27/99	96890	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
05/27/99	05/27/99	96841	(ML/EPA 200.7)	Calcium, Total, ICAP	47.6	mg/l	1.0	1
	05/28/99		(ML/SM1040)	Cation Sum	4.66	meq/l	0.0010	1
	05/20/99	96600	(ML/EPA 300)	Chloride	8.59	mg/l	1.0	1
	06/05/99	97167	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	05/28/99		(ML/SM2320B)	Carbonate as CO ₃ , Calculated	0.898	mg/l	0.0010	1
05/25/99	05/26/99	96831	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	05/19/99	96589	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	05/21/99	96582	(ML/S2510B)	Specific Conductance	400	umho/cm	4.0	1
05/25/99	05/26/99	96832	(EPA/ML 200.8)	Iron, Total, ICAP/MS	300	ug/l	100	1
	05/28/99		(ML/SM2320B)	Bicarbonate as HCO ₃ , calculated	219	mg/l	0.0010	1
05/27/99	05/27/99	96844	(ML/EPA 200.7)	Potassium, Total, ICAP	2.7	mg/l	1.0	1
05/27/99	05/27/99	96846	(ML/EPA 200.7)	Magnesium, Total, ICAP	16.4	mg/l	0.10	1
05/27/99	05/27/99	96848	(ML/EPA 200.7)	Sodium, Total, ICAP	19.6	mg/l	1.0	1
	05/20/99	96606	(ML/EPA 300.0)	Nitrate-N by IC	1.44	mg/l	0.10	1
05/25/99	05/26/99	96833	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	05/24/99	96679	(ML/SM 4500HB)	Lab pH	7.8	Units	0.0010	1
	05/20/99	96611	(ML/EPA 300.0)	Sulfate	31.6	mg/l	2.0	1
	05/26/99	97043	(ML/SM2540C)	Total Dissolved Solid (TDS)	260	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	05/24/99	96767	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1

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**Laboratory
Report
#54427**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	05/24/99	96767	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	05/24/99	96767	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	05/24/99	96767	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1

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Laboratory**Report****#54427**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	05/24/99	96767	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	105	% Rec		
			(Surrogate)	4-Bromofluorobenzene	100	% Rec		
			(Surrogate)	Toluene-d8	101	% Rec		

MW-992-088 (990519081)**Sampled on 05/19/99****Regulated VOCs plus Lists 1&3**

05/24/99	96767	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
05/24/99	96767	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
05/24/99	96767	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
05/24/99	96767	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
05/24/99	96767	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
05/24/99	96767	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
05/24/99	96767	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
05/24/99	96767	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
05/24/99	96767	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
05/24/99	96767	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
05/24/99	96767	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
05/24/99	96767	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
05/24/99	96767	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
05/24/99	96767	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
05/24/99	96767	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1

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**Laboratory
Report
#54427**

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	05/24/99	96767	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	05/24/99	96767	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	05/24/99	96767	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Chloroform (Trichloromethane)	1.2	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	p-Isopropyltoluene	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
	05/24/99	96767	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	05/24/99	96767	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	05/24/99	96767	(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	102	% Rec		
			(Surrogate)	Toluene-d8	97	% Rec		

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QC Batch #96578**Specific Conductance**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 99	0519076		(0.00 - 0.00)	

QC Batch #96582**Specific Conductance**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 99	0519080		(0.00 - 0.00)	

QC Batch #96589**Hexavalent chromium (Cr VI)**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0519078		(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	0.051	102.0	(80.00 - 120.00)	
MSD	Hexavalent chromium (Cr VI)	0.050	0.053	106.0	(80.00 - 120.00)	3.8

QC Batch #96600**Chloride**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0519080		(0.00 - 0.00)	
LCS1	Chloride	25	26.0	104.0	(90.00 - 110.00)	
LCS2	Chloride	25	26.0	104.0	(90.00 - 110.00)	0.00
MBLK	Chloride	ND				
MS	Chloride	25	26.5	106.0	(80.00 - 120.00)	
MSD	Chloride	25	26.6	106.4	(80.00 - 120.00)	0.38

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Laboratory**QC Report****#54427**Foster Wheeler Environmental, Inc
(continued)**QC Batch #96606****Nitrate-N by IC**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0518165		(0.00 - 0.00)	
LCS1	Nitrate-N by IC	2.5	2.70	108.0	(90.00 - 110.00)	
LCS2	Nitrate-N by IC	2.5	2.68	107.2	(90.00 - 110.00)	0.74
MBLK	Nitrate-N by IC	ND				
MS	Nitrate-N by IC	2.5	2.67	106.8	(80.00 - 120.00)	
MSD	Nitrate-N by IC	2.5	2.67	106.8	(80.00 - 120.00)	0.00

QC Batch #96611**Sulfate**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0519059		(0.00 - 0.00)	
LCS1	Sulfate	50	52.4	104.8	(90.00 - 110.00)	
LCS2	Sulfate	50	52.8	105.6	(90.00 - 110.00)	0.76
MBLK	Sulfate	ND				
MS	Sulfate	50	54.2	108.4	(80.00 - 120.00)	
MSD	Sulfate	50	54.4	108.8	(80.00 - 120.00)	0.37

QC Batch #96679**Lab pH**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	lab # 99	0521159		(0.00 - 0.00)	

QC Batch #96767**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	3.63	90.8	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	3.69	92.2	(70.00 - 130.00)	

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MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	3.92	98.0	(70.00 - 130.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	3.65	91.2	(70.00 - 130.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	3.35	83.8	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MS	1,1-Dichloroethylene	4	4.30	107.5	(70.00 - 130.00)	
MSD	1,1-Dichloroethylene	4	4.31	107.7	(70.00 - 130.00)	0.23
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	(70.00 - 130.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	4	3.63	90.8	(70.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	4	3.95	98.8	(70.00 - 130.00)	
MBLK	1,2-Dichloropropane	ND				
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	8	7.45	93.1	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
LCS1	p-Dichlorobenzene (1,4-DCB)	4	3.72	93.0	(70.00 - 130.00)	
MBLK	p-Dichlorobenzene (1,4-DCB)	ND				
MBLK	2,2-Dichloropropane	ND				
MBLK	2-Butanone (MEK)	ND				
MBLK	2-Chloroethylvinylether	ND				
MBLK	o-Chlorotoluene	ND				
MBLK	p-Chlorotoluene	ND				
MBLK	4-Methyl-2-Pentanone (MIBK)	ND				
MS	Spiked sample	Lab # 99	0518167		(0.00 - 0.00)	
LCS1	Benzene	4	3.73	93.2	(70.00 - 130.00)	
MBLK	Benzene	ND				
MS	Benzene	4	4.30	107.5	(70.00 - 130.00)	
MSD	Benzene	4	4.13	103.2	(70.00 - 130.00)	4.0
MBLK	Bromobenzene	ND				
MBLK	Bromomethane (Methyl Bromide)	ND				

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(continued)

LCS1	cis-1,2-Dichloroethylene	4	3.93	98.2	(70.00 - 130.00)	
MBLK	cis-1,2-Dichloroethylene	ND				
LCS1	Chlorobenzene	4	3.94	98.5	(70.00 - 130.00)	
MBLK	Chlorobenzene	ND				
MS	Chlorobenzene	4	4.28	107.0	(70.00 - 130.00)	
MSD	Chlorobenzene	4	3.84	96.0	(70.00 - 130.00)	11
LCS1	Carbon Tetrachloride	4	3.53	88.2	(70.00 - 130.00)	
MBLK	Carbon Tetrachloride	ND				
MBLK	cis-1,3-Dichloropropene	ND				
LCS1	Bromoform	4	3.39	84.8	(70.00 - 130.00)	
MBLK	Bromoform	ND				
LCS1	Chloroform (Trichloromethane)	4	3.55	88.8	(70.00 - 130.00)	
MBLK	Chloroform (Trichloromethane)	ND				
MBLK	Bromochloromethane	ND				
MBLK	Chloroethane	ND				
MBLK	Chloromethane (Methyl Chloride)	ND				
LCS1	Chlorodibromomethane	4	3.44	86.0	(70.00 - 130.00)	
MBLK	Chlorodibromomethane	ND				
MBLK	Dibromomethane	ND				
LCS1	Bromodichloromethane	4	3.62	90.5	(70.00 - 130.00)	
MBLK	Bromodichloromethane	ND				
LCS1	Dichloromethane	4	3.40	85.0	(70.00 - 130.00)	
MBLK	Dichloromethane	ND				
LCS1	Ethyl benzene	4	3.78	94.5	(70.00 - 130.00)	
MBLK	Ethyl benzene	ND				
MBLK	Dichlorodifluoromethane	ND				
LCS1	Fluorotrichloromethane-Freon11	2	1.97	98.5	(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	7.79	97.4	(70.00 - 130.00)	
MBLK	m,p-Xylenes	ND				
MBLK	Naphthalene	ND				
MBLK	n-Butylbenzene	ND				
MBLK	n-Propylbenzene	ND				
LCS1	o-Xylene	4	4.06	101.5	(70.00 - 130.00)	

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MBLK	o-Xylene	ND				
LCS1	o-Dichlorobenzene (1,2-DCB)	4	3.81	95.2	(70.00 - 130.00)	
MBLK	o-Dichlorobenzene (1,2-DCB)	ND				
LCS1	Tetrachloroethylene (PCE)	4	3.82	95.5	(70.00 - 130.00)	
MBLK	Tetrachloroethylene (PCE)	ND				
MBLK	p-Isopropyltoluene	ND				
MBLK	sec-Butylbenzene	ND				
LCS1	Styrene	4	4.08	102.0	(70.00 - 130.00)	
MBLK	Styrene	ND				
LCS1	1,2-dichloroethane-d4	100	99.4	99.4	(80.00 - 120.00)	
MBLK	1,2-dichloroethane-d4	100	103	103.0		
MS	1,2-dichloroethane-d4	100	110	110.0	(80.00 - 120.00)	
MSD	1,2-dichloroethane-d4	100	104	104.0	(80.00 - 120.00)	5.6
LCS1	Toluene-d8	100	97.0	97.0	(80.00 - 120.00)	
MBLK	Toluene-d8	100	99.3	99.3		
MS	Toluene-d8	100	103	103.0	(80.00 - 120.00)	
MSD	Toluene-d8	100	101	101.0	(80.00 - 120.00)	2.0
LCS1	4-Bromofluorobenzene	100	95.7	95.7	(80.00 - 120.00)	
MBLK	4-Bromofluorobenzene	100	102	102.0		
MS	4-Bromofluorobenzene	100	106	106.0	(80.00 - 120.00)	
MSD	4-Bromofluorobenzene	100	97.2	97.2	(80.00 - 120.00)	8.7
LCS1	trans-1,2-Dichloroethylene	4	3.30	82.5	(70.00 - 130.00)	
MBLK	trans-1,2-Dichloroethylene	ND				
MBLK	tert-Butylbenzene	ND				
LCS1	Trichloroethylene (TCE)	4	3.70	92.5	(70.00 - 130.00)	
MBLK	Trichloroethylene (TCE)	ND				
MS	Trichloroethylene (TCE)	4	4.28	107.0	(70.00 - 130.00)	
MSD	Trichloroethylene (TCE)	4	4.22	105.5	(70.00 - 130.00)	1.4
LCS1	Trichlorotrifluoroethane (Freon	2	2.00	100.0	(70.00 - 130.00)	
MBLK	Trichlorotrifluoroethane (Freon	ND				
MBLK	trans-1,3-Dichloropropene	ND				
LCS1	Toluene	4	3.79	94.8	(70.00 - 130.00)	
MBLK	Toluene	ND				
MS	Toluene	4	4.14	103.5	(70.00 - 130.00)	
MSD	Toluene	4	3.96	99.0	(70.00 - 130.00)	4.4
LCS1	Vinyl chloride (VC)	2	2.12	106.0	(70.00 - 130.00)	
MBLK	Vinyl chloride (VC)	ND				

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Laboratory**QC Report****#54427**Foster Wheeler Environmental, Inc
(continued)**QC Batch #96798****Chromium, Total, ICAP/MS**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0517080		(0.00 - 0.00)	
LCS1	Chromium, Total, ICAP/MS	100	102	102.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	101	101.0	(85.00 - 115.00)	0.99
MBLK	Chromium, Total, ICAP/MS	ND				
MS	Chromium, Total, ICAP/MS	100	106	106.0	(70.00 - 130.00)	
MSD	Chromium, Total, ICAP/MS	100	102	102.0	(70.00 - 130.00)	3.8

QC Batch #96802**Iron, Total, ICAP/MS**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0517080		(0.00 - 0.00)	
LCS1	Iron, Total, ICAP/MS	500	470	94.0	(85.00 - 115.00)	
LCS2	Iron, Total, ICAP/MS	500	463	92.6	(85.00 - 115.00)	1.5
MBLK	Iron, Total, ICAP/MS	ND				
MS	Iron, Total, ICAP/MS	500	482	96.4	(70.00 - 130.00)	
MSD	Iron, Total, ICAP/MS	500	446	89.2	(70.00 - 130.00)	7.8

QC Batch #96806**Lead, Total, ICAP/MS**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0517080		(0.00 - 0.00)	
LCS1	Lead, Total, ICAP/MS	20.0	20.9	104.5	(85.00 - 115.00)	
LCS2	Lead, Total, ICAP/MS	20.0	19.9	99.5	(85.00 - 115.00)	4.9
MBLK	Lead, Total, ICAP/MS	ND				
MS	Lead, Total, ICAP/MS	20.0	21.2	106.0	(70.00 - 130.00)	
MSD	Lead, Total, ICAP/MS	20.0	19.9	99.5	(70.00 - 130.00)	6.3

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Laboratory**QC Report****#54427**Foster Wheeler Environmental, Inc
(continued)**QC Batch #96817****Total Dissolved Solid (TDS)**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 99	0518168		(0.00 - 0.00)	
LCS1	Total Dissolved Solid (TDS)	175	168	96.0	(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 #96831**Chromium, Total, ICAP/MS**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0519080		(0.00 - 0.00)	
LCS1	Chromium, Total, ICAP/MS	100	98	98.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	97	97.0	(85.00 - 115.00)	1.0
MBLK	Chromium, Total, ICAP/MS	ND				
MS	Chromium, Total, ICAP/MS	100	99	99.0	(70.00 - 130.00)	
MSD	Chromium, Total, ICAP/MS	100	101	101.0	(70.00 - 130.00)	2.0

QC Batch #96832**Iron, Total, ICAP/MS**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0519080		(0.00 - 0.00)	
LCS1	Iron, Total, ICAP/MS	500	520	104.0	(85.00 - 115.00)	
LCS2	Iron, Total, ICAP/MS	500	540	108.0	(85.00 - 115.00)	3.8
MBLK	Iron, Total, ICAP/MS	ND				
MS	Iron, Total, ICAP/MS	500	500	100.0	(70.00 - 130.00)	
MSD	Iron, Total, ICAP/MS	500	490	98.0	(70.00 - 130.00)	2.0

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

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

**MONTGOMERY WATSON LABORATORIES**

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

#54427

Foster Wheeler Environmental, Inc
(continued)**QC Batch #96833****Lead, Total, ICAP/MS**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0519080		(0.00 - 0.00)	
LCS1	Lead, Total, ICAP/MS	20.0	19.9	99.5	(85.00 - 115.00)	
LCS2	Lead, Total, ICAP/MS	20.0	20.0	100.0	(85.00 - 115.00)	0.50
MBLK	Lead, Total, ICAP/MS	ND				
MS	Lead, Total, ICAP/MS	20.0	22.2	111.0	(70.00 - 130.00)	
MSD	Lead, Total, ICAP/MS	20.0	22.9	114.5	(70.00 - 130.00)	3.1

QC Batch #96841**Calcium, Total, ICAP**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0517078		(0.00 - 0.00)	
LCS1	Calcium, Total, ICAP	50	51.4	102.8	(85.00 - 115.00)	
LCS2	Calcium, Total, ICAP	50	51.4	102.8	(85.00 - 115.00)	0.00
MBLK	Calcium, Total, ICAP	ND				
MS	Calcium, Total, ICAP	50	52.2	104.4	(70.00 - 130.00)	
MSD	Calcium, Total, ICAP	50	51.7	103.4	(70.00 - 130.00)	0.96

QC Batch #96844**Potassium, Total, ICAP**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0517078		(0.00 - 0.00)	
LCS1	Potassium, Total, ICAP	20	20.3	101.5	(80.00 - 110.00)	
LCS2	Potassium, Total, ICAP	20	20.4	102.0	(80.00 - 110.00)	0.49
MBLK	Potassium, Total, ICAP	ND				
MS	Potassium, Total, ICAP	20	20.3	101.5	(80.00 - 120.00)	
MSD	Potassium, Total, ICAP	20	20.2	101.0	(80.00 - 120.00)	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.

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1 800 566 LABS (1 800 566 5227)

Laboratory
QC Report
#54427

Foster Wheeler Environmental, Inc
(continued)

QC Batch #96846**Magnesium, Total, ICAP**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0517078		(0.00 - 0.00)	
LCS1	Magnesium, Total, ICAP	20	20.9	104.5	(85.00 - 115.00)	
LCS2	Magnesium, Total, ICAP	20	20.9	104.5	(85.00 - 115.00)	0.00
MBLK	Magnesium, Total, ICAP	ND				
MS	Magnesium, Total, ICAP	20	21.4	107.0	(70.00 - 130.00)	
MSD	Magnesium, Total, ICAP	20	21.2	106.0	(70.00 - 130.00)	0.94

QC Batch #96848**Sodium, Total, ICAP**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0517078		(0.00 - 0.00)	
LCS1	Sodium, Total, ICAP	50	51.2	102.4	(85.00 - 115.00)	
LCS2	Sodium, Total, ICAP	50	51.3	102.6	(85.00 - 115.00)	0.20
MBLK	Sodium, Total, ICAP	ND				
MS	Sodium, Total, ICAP	50	50.1	100.2	(70.00 - 130.00)	
MSD	Sodium, Total, ICAP	50	48.6	97.2	(70.00 - 130.00)	3.0

QC Batch #96869**Alkalinity**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0518165		(0.00 - 0.00)	
LCS1	Alkalinity	96.2	99.3	103.2	(90.00 - 110.00)	
LCS2	Alkalinity	96.2	99.2	103.1	(90.00 - 110.00)	0.10
MBLK	Alkalinity	ND				
MS	Alkalinity	96.2	96.2	100.0	(80.00 - 120.00)	
MSD	Alkalinity	96.2	96.2	100.0	(80.00 - 120.00)	0.00

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

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Laboratory

QC Report

#54427

Foster Wheeler Environmental, Inc
(continued)**QC Batch #96873****Arsenic, Total, GF**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0517080		(0.00 - 0.00)	
LCS1	Arsenic, Total, GF	0.020	0.0200	100.0	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.0201	100.5	(85.00 - 115.00)	0.50
MBLK	Arsenic, Total, GF	ND				
MS	Arsenic, Total, GF	0.020	0.0215	107.5	(70.00 - 130.00)	
MSD	Arsenic, Total, GF	0.020	0.0204	102.0	(70.00 - 130.00)	5.3

QC Batch #96890**Arsenic, Total, GF**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0519080		(0.00 - 0.00)	
LCS1	Arsenic, Total, GF	0.020	0.0205	102.5	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.0199	99.5	(85.00 - 115.00)	3.0
MBLK	Arsenic, Total, GF	ND				
MS	Arsenic, Total, GF	0.020	0.0215	107.5	(70.00 - 130.00)	
MSD	Arsenic, Total, GF	0.020	0.0217	108.5	(70.00 - 130.00)	0.93

QC Batch #97043**Total Dissolved Solid (TDS)**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 99	0519077		(0.00 - 0.00)	
LCS1	Total Dissolved Solid (TDS)	175	170	97.1	(85.00 - 115.00)	
LCS2	Total Dissolved Solid (TDS)	700	670	95.7	(85.00 - 115.00)	
MBLK	Total Dissolved Solid (TDS)	ND				

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

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a Division of Montgomery Watson Americas, Inc.

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1 800 566 LABS (1 800 566 5227)

Laboratory**QC Report****#54427**Foster Wheeler Environmental, Inc
(continued)**QC Batch #97115****Perchlorate**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0514117		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	20.4	102.0	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	20.5	102.5	(90.00 - 110.00)	0.49
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	20.6	103.0	(75.00 - 125.00)	
MSD	Perchlorate	20.0	20.8	104.0	(75.00 - 125.00)	0.97

QC Batch #97167**Perchlorate**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0519080		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	18.1	90.5	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	18.3	91.5	(90.00 - 110.00)	1.1
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	18.2	91.0	(75.00 - 125.00)	
MSD	Perchlorate	20.0	20.1	100.5	(75.00 - 125.00)	9.9

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 10, 1999

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

Attention: Mark Cutler

Re: Report # 54453 (MW-992-090, MW-992-089, MW-992-059,
MW-992-058, MW-992-057, MW-992-056, MW-992-055)

Sampled: 5/21/99

Dear Mark,

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

Non-conformance (LCS, MS/MSD, Surrogates, and Holding Times)

None

Samples requiring dilution (with increased MRL's):

None

Method blanks with compounds detected:

None

Comments:

Bromodichloromethane was detected in sample MW-992-056
Chloroform was detected in MW-992-089, -056, -055
Perchlorate was detected in MW-992-055

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)

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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
Group#: 54453
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

The following samples were received from you on 05/20/99. 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
990520155	MW-992-090	@EBASVOA	Water	05/20/99
990520156	MW-992-089	@EBASVOA AS-EBAS CR-EBAS PB-EBAS CR-VI CLO4	Water	05/20/99
990520157	MW-992-059	@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	05/20/99
990520158	MW-992-058	@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	Water	05/20/99
990520159	MW-992-057	@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	Water	05/20/99
990520160	MW-992-056	@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	Water	05/20/99
990520161	MW-992-055	@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	Water	05/20/99

Test Acronym Description

Test Acronym	Description
--------------	-------------

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

Customer Code: ENSERCH
Group#: 54453
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

Test Acronym Description

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



54453

NUMBER 1256

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF

PROJECT JPL		OFS NO. 1572.0276		HAZARD IDENTIFICATION Non Hazard ☒ Reactive ☐ Flammable ☐ Toxic ☐ Skin Irritant ☐ Infectious ☐		TIME REQUIRED NORMAL ☒ DAYS RUSH ☐ DAYS										
PROJECT ADDRESS 4500 OAK GLEN DR. PASADENA CA																
SAMPLER (Name) J. BIENNER		SAMPLER (Signature) J. BIENNER		ANALYSES REQUIRED												
LABORATORY MONTGOMERY WATSON LABS																
REPORTS TO BE SENT TO MR. MARK COOPER																
SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL			VOCs (5242)	TOTAL MS C-Pb (6010/7000)	MAJOR ANIONS TDS	Hex. C.	ClO ₄	MS For VOCs	MS For VOCs	MS/MS For Metals	GC For G-6+
					WATER	SOIL	OTHER (Describe)									
MW-942-090	0820	5/20/99	2	2x40ml	X			X								
MW-941-059	0830		5	2x40ml 1x25ml	X			X	X		X	X				
MW-942-059	0920		6	2x40ml 1x25ml	X			X	X	X	X	X				
MW-942-058	1100		6	2x40ml 1x25ml	X			X	X	X	X	X				
MW-941-057	1215		6	2x40ml 1x25ml	X			X	X	X	X	X				X
MW-942-056	1330		6	2x40ml 1x25ml	X			X	X	X	X	X				
MW-942-055	1430		6	2x40ml 1x25ml	X			X	X	X	X	X			X	
MW-942-054	1430		2	2x40ml	X							X				
MW-942-053	1430		2	2x40ml	X								X			
LABORATORY INSTRUCTIONS/COMMENTS LEVEL IV QA/QC																
RELINQUISHED BY (Signature) J. BIENNER		DATE 5/20/99	RECEIVED BY (Signature) [Signature]		RELINQUISHED BY (Signature)		DATE 5-20	RECEIVED BY (Signature)								
COMPANY FW-ENC		TIME 1545	COMPANY FW-ENC		COMPANY		TIME 2:44	COMPANY								

MONTGOMERY LABORATORIES COOLER RECEIPT FORM

PROJECT: Enserch Date Received: 5-20-99
 Use other side of this form to note further details concerning check-in problems and to describe any action(s) regarding the resolution(s) of problems.

A. PRELIMINARY EXAMINATION: Date cooler opened: 5-20-99
 by (print) Erin (sign) [Signature]

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

2. Were custody seals on outside of cooler? Two (lid to body) Yes ☒ No
 If YES, how many & where: 5-20, seal name: J.B.
 If Yes, enter the following: seal date: _____, seal name: _____

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

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

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

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

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

8. Have designated person(s) initial to acknowledge receipt: _____ (date) 5-20

B. LOG-IN PHASE: Date samples were logged-in: 5-20 by:
 (print) Erin (sign) [Signature]

9. Describe packing: _____

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

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

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

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

14. Did all bottle labels agree with custody papers?
 If NO, indicate discrepancies 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, PR54453

			Result	MDL	UNITS
Analyzed	990520155	MW-992-090			
Analyzed	990520156	MW-992-089			
05/26/99	Chloroform (Trichloromethane)		1.1	.500	UGL
Analyzed	990520157	MW-992-059			
05/28/99	Alkalinity		153	2.000	MGL
06/07/99	Anion Sum		3.74	.001	MEQL
06/07/99	Bicarbonate as HCO ₃ ,calculated		179	.001	MGL
05/27/99	Calcium, Total, ICAP		7.1	1.000	MGL
06/07/99	Carbonate as CO ₃ , Calculated		18.4	.001	MGL
05/28/99	Cation Sum		3.88	.001	MEQL
05/21/99	Chloride		8.59	1.000	MGL
05/24/99	Lab pH		9.2	.001	UNIT
05/27/99	Magnesium, Total, ICAP		1.8	.100	MGL
05/27/99	Potassium, Total, ICAP		1.5	1.000	MGL
05/27/99	Sodium, Total, ICAP		76.8	1.000	MGL
05/25/99	Specific Conductance		370	4.000	UMHO
05/21/99	Sulfate		21.1	2.000	MGL
05/26/99	Total Dissolved Solid (TDS)		200	10.000	MGL
Analyzed	990520158	MW-992-058			
05/28/99	Alkalinity		136	2.000	MGL
06/07/99	Anion Sum		3.39	.001	MEQL
06/07/99	Bicarbonate as HCO ₃ ,calculated		164	.001	MGL
05/27/99	Calcium, Total, ICAP		10.8	1.000	MGL
06/07/99	Carbonate as CO ₃ , Calculated		5.34	.001	MGL
05/28/99	Cation Sum		3.51	.001	MEQL
05/21/99	Chloride		10	1.000	MGL
05/26/99	Iron, Total, ICAP/MS		160	*****	UGL
05/24/99	Lab pH		8.7	.001	UNIT
05/27/99	Magnesium, Total, ICAP		3.4	.100	MGL
05/27/99	Potassium, Total, ICAP		1.2	1.000	MGL
05/27/99	Sodium, Total, ICAP		61.2	1.000	MGL
05/25/99	Specific Conductance		330	4.000	UMHO
05/21/99	Sulfate		18.7	2.000	MGL
05/26/99	Total Dissolved Solid (TDS)		190	10.000	MGL
Analyzed	990520159	MW-992-057			
05/28/99	Alkalinity		186	2.000	MGL
06/07/99	Anion Sum		5.41	.001	MEQL
06/07/99	Bicarbonate as HCO ₃ ,calculated		225	.001	MGL
05/27/99	Calcium, Total, ICAP		24.5	1.000	MGL
06/07/99	Carbonate as CO ₃ , Calculated		3.67	.001	MGL
05/28/99	Cation Sum		5.42	.001	MEQL
05/21/99	Chloride		34.4	1.000	MGL
05/24/99	Lab pH		8.4	.001	UNIT
05/27/99	Magnesium, Total, ICAP		17.8	.100	MGL
05/21/99	Nitrate-N by IC		2.58	.100	MGL
05/27/99	Potassium, Total, ICAP		2.7	1.000	MGL
05/27/99	Sodium, Total, ICAP		61.3	1.000	MGL

05/25/99	Specific Conductance	515	4.000	UMHO
05/21/99	Sulfate	25.5	2.000	MGL
05/26/99	Total Dissolved Solid (TDS)	300	10.000	MGL

Analyzed 990520160 MW-992-056

05/26/99	Bromodichloromethane	0.6	.500	UGL
05/26/99	Chloroform (Trichloromethane)	4.6	.500	UGL
05/28/99	Alkalinity	131	2.000	MGL
06/07/99	Anion Sum	3.71	.001	MEQL
06/07/99	Bicarbonate as HCO3,calculated	158	.001	MGL
05/27/99	Calcium, Total, ICAP	23.6	1.000	MGL
06/07/99	Carbonate as CO3, Calculated	5.15	.001	MGL
05/28/99	Cation Sum	3.82	.001	MEQL
05/21/99	Chloride	12	1.000	MGL
05/24/99	Lab pH	8.7	.001	UNIT
05/27/99	Magnesium, Total, ICAP	18.3	.100	MGL
05/21/99	Nitrate-N by IC	1.83	.100	MGL
05/27/99	Potassium, Total, ICAP	2.4	1.000	MGL
05/27/99	Sodium, Total, ICAP	24.7	1.000	MGL
05/25/99	Specific Conductance	350	4.000	UMHO
05/21/99	Sulfate	30.0	2.000	MGL
05/26/99	Total Dissolved Solid (TDS)	230	10.000	MGL

Analyzed 990520161 MW-992-055

05/26/99	Chloroform (Trichloromethane)	1.9	.500	UGL
05/28/99	Alkalinity	167	2.000	MGL
06/07/99	Anion Sum	7.14	.001	MEQL
06/07/99	Bicarbonate as HCO3,calculated	203	.001	MGL
05/27/99	Calcium, Total, ICAP	78.3	1.000	MGL
06/07/99	Carbonate as CO3, Calculated	0.832	.001	MGL
05/28/99	Cation Sum	7.07	.001	MEQL
05/21/99	Chloride	36.9	1.000	MGL
05/24/99	Lab pH	7.8	.001	UNIT
05/27/99	Magnesium, Total, ICAP	26.4	.100	MGL
05/21/99	Nitrate-N by IC	8.29	.100	MGL
06/05/99	Perchlorate	4.4	4.000	UGL
05/27/99	Potassium, Total, ICAP	3.3	1.000	MGL
05/27/99	Sodium, Total, ICAP	20.7	1.000	MGL
05/25/99	Specific Conductance	660	4.000	UMHO
05/21/99	Sulfate	104	2.000	MGL
05/27/99	Total Dissolved Solid (TDS)	420	10.000	MGL



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Laboratory Report

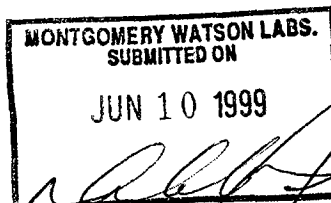
for

Foster Wheeler Environmental, Inc
611 Anton Boulevard

Suite 800

Costa Mesa , CA 92626

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



DEB* Debbie Frank

Report#: 54453
JPL

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Laboratory**Report****#54453**

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

Samples Received
 20-may-1999 20:29:55

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-992-090 (990520155)		Sampled on 05/20/99						
Regulated VOCs plus Lists 1&3								
05/26/99	96997	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1	
05/26/99	96997	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1	
05/26/99	96997	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1	
05/26/99	96997	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1	
05/26/99	96997	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1	
05/26/99	96997	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1	
05/26/99	96997	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1	
05/26/99	96997	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1	
05/26/99	96997	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1	
05/26/99	96997	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1	
05/26/99	96997	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1	
05/26/99	96997	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1	
05/26/99	96997	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1	
05/26/99	96997	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1	
05/26/99	96997	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1	
05/26/99	96997	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1	
05/26/99	96997	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1	
05/26/99	96997	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1	
05/26/99	96997	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1	
05/26/99	96997	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1	
05/26/99	96997	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1	
05/26/99	96997	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1	
05/26/99	96997	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1	
05/26/99	96997	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1	
05/26/99	96997	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1	
05/26/99	96997	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1	
05/26/99	96997	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1	
05/26/99	96997	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1	
05/26/99	96997	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1	

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Laboratory**Report****#54453****Foster Wheeler Environmental, Inc**
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	05/26/99	96997	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	05/26/99	96997	(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	102	% Rec		
			(Surrogate)	Toluene-d8	98	% Rec		

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**Laboratory
Report
#54453**

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-992-089 (990520156)				Sampled on 05/20/99				
05/25/99	05/27/99	96890	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	06/05/99	97167	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
05/25/99	05/26/99	96831	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	05/20/99	96590	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
05/25/99	05/26/99	96833	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
Regulated VOCs plus Lists 1&3								
	05/26/99	96997	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	05/26/99	96997	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	05/26/99	96997	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1

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Laboratory**Report****#54453**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	05/26/99	96997	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Chloroform (Trichloromethane)	1.1	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	05/26/99	96997	(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	106	% Rec		

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Laboratory**Report****#54453**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
			(Surrogate)	Toluene-d8	99	% Rec		
MW-992-059 (990520157) Sampled on 05/20/99								
	05/28/99	97178	(ML/SM2320B)	Alkalinity	153	mg/l	2.0	1
	06/07/99		(ML/SM1040)	Anion Sum	3.74	meq/l	0.0010	1
05/25/99	05/27/99	96890	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
05/27/99	05/27/99	96843	(ML/EPA 200.7)	Calcium, Total, ICAP	7.1	mg/l	1.0	1
	05/28/99		(ML/SM1040)	Cation Sum	3.88	meq/l	0.0010	1
	05/21/99	96709	(ML/EPA 300)	Chloride	8.59	mg/l	1.0	1
	06/05/99	97167	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	06/07/99		(ML/SM2320B)	Carbonate as CO3, Calculated	18.4	mg/l	0.0010	1
05/25/99	05/26/99	96831	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	05/20/99	96590	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	05/25/99	96684	(ML/S2510B)	Specific Conductance	370	umho/cm	4.0	1
05/25/99	05/26/99	96832	(EPA/ML 200.8)	Iron, Total, ICAP/MS	ND	ug/l	100	1
	06/07/99		(ML/SM2320B)	Bicarbonate as HCO3,calculated	179	mg/l	0.0010	1
05/27/99	05/27/99	96845	(ML/EPA 200.7)	Potassium, Total, ICAP	1.5	mg/l	1.0	1
05/27/99	05/27/99	96847	(ML/EPA 200.7)	Magnesium, Total, ICAP	1.8	mg/l	0.10	1
05/27/99	05/27/99	96849	(ML/EPA 200.7)	Sodium, Total, ICAP	76.8	mg/l	1.0	1
	05/21/99	96716	(ML/EPA 300.0)	Nitrate-N by IC	ND	mg/l	0.10	1
05/25/99	05/26/99	96833	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	05/24/99	96679	(ML/SM 4500HB)	Lab pH	9.2	Units	0.0010	1
	05/21/99	96717	(ML/EPA 300.0)	Sulfate	21.1	mg/l	2.0	1
	05/26/99	97043	(ML/SM2540C)	Total Dissolved Solid (TDS)	200	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	05/26/99	96997	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1

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**Laboratory
Report
#54453**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	05/26/99	96997	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	05/26/99	96997	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	05/26/99	96997	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1

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**Laboratory
 Report
 #54453**

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	05/26/99	96997	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	113	% Rec		
			(Surrogate)	4-Bromofluorobenzene	96	% Rec		
			(Surrogate)	Toluene-d8	101	% Rec		

MW-992-058 (990520158)

Sampled on 05/20/99

	05/28/99	97178	(ML/SM2320B)	Alkalinity	136	mg/l	2.0	1
	06/07/99		(ML/SM1040)	Anion Sum	3.39	meq/l	0.0010	1
05/25/99	05/27/99	96890	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
05/27/99	05/27/99	96843	(ML/EPA 200.7)	Calcium, Total, ICAP	10.8	mg/l	1.0	1
	05/28/99		(ML/SM1040)	Cation Sum	3.51	meq/l	0.0010	1
	05/21/99	96709	(ML/EPA 300)	Chloride	10	mg/l	1.0	1
	06/05/99	97167	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	06/07/99		(ML/SM2320B)	Carbonate as CO3, Calculated	5.34	mg/l	0.0010	1
05/25/99	05/26/99	96831	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	05/20/99	96590	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	05/25/99	96684	(ML/S2510B)	Specific Conductance	330	umho/cm	4.0	1
05/25/99	05/26/99	96832	(EPA/ML 200.8)	Iron, Total, ICAP/MS	160	ug/l	100	1
	06/07/99		(ML/SM2320B)	Bicarbonate as HCO3,calculated	164	mg/l	0.0010	1
05/27/99	05/27/99	96845	(ML/EPA 200.7)	Potassium, Total, ICAP	1.2	mg/l	1.0	1
05/27/99	05/27/99	96847	(ML/EPA 200.7)	Magnesium, Total, ICAP	3.4	mg/l	0.10	1
05/27/99	05/27/99	96849	(ML/EPA 200.7)	Sodium, Total, ICAP	61.2	mg/l	1.0	1

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Laboratory**Report****#54453**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	05/21/99	96716	(ML/EPA 300.0)	Nitrate-N by IC	ND	mg/l	0.10	1
05/25/99	05/26/99	96833	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	05/24/99	96679	(ML/SM 4500HB)	Lab pH	8.7	Units	0.0010	1
	05/21/99	96717	(ML/EPA 300.0)	Sulfate	18.7	mg/l	2.0	1
	05/26/99	97043	(ML/SM2540C)	Total Dissolved Solid (TDS)	190	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	05/26/99	96997	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	05/26/99	96997	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	05/26/99	96997	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Laboratory**Report****#54453****Foster Wheeler Environmental, Inc
(continued)**

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	05/26/99	96997	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/ES24.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	114	% Rec		
			(Surrogate)	4-Bromofluorobenzene	98	% Rec		
			(Surrogate)	Toluene-d8	102	% Rec		

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Laboratory**Report****#54453**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-992-057 (990520159)					Sampled on 05/20/99			
	05/28/99	97178	(ML/SM2320B)	Alkalinity	186	mg/l	2.0	1
	06/07/99		(ML/SM1040)	Anion Sum	5.41	meq/l	0.0010	1
05/25/99	05/27/99	96890	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
05/27/99	05/27/99	96843	(ML/EPA 200.7)	Calcium, Total, ICAP	24.5	mg/l	1.0	1
	05/28/99		(ML/SM1040)	Cation Sum	5.42	meq/l	0.0010	1
	05/21/99	96709	(ML/EPA 300)	Chloride	34.4	mg/l	1.0	1
	06/05/99	97167	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	06/07/99		(ML/SM2320B)	Carbonate as CO3, Calculated	3.67	mg/l	0.0010	1
05/25/99	05/26/99	96831	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	05/20/99	96590	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	05/25/99	96684	(ML/S2510B)	Specific Conductance	515	umho/cm	4.0	1
05/25/99	05/26/99	96832	(EPA/ML 200.8)	Iron, Total, ICAP/MS	ND	ug/l	100	1
	06/07/99		(ML/SM2320B)	Bicarbonate as HCO3,calculated	225	mg/l	0.0010	1
05/27/99	05/27/99	96845	(ML/EPA 200.7)	Potassium, Total, ICAP	2.7	mg/l	1.0	1
05/27/99	05/27/99	96847	(ML/EPA 200.7)	Magnesium, Total, ICAP	17.8	mg/l	0.10	1
05/27/99	05/27/99	96849	(ML/EPA 200.7)	Sodium, Total, ICAP	61.3	mg/l	1.0	1
	05/21/99	96716	(ML/EPA 300.0)	Nitrate-N by IC	2.58	mg/l	0.10	1
05/25/99	05/26/99	96833	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	05/24/99	96679	(ML/SM 4500HB)	Lab pH	8.4	Units	0.0010	1
	05/21/99	96717	(ML/EPA 300.0)	Sulfate	25.5	mg/l	2.0	1
	05/26/99	97043	(ML/SM2540C)	Total Dissolved Solid (TDS)	300	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	05/26/99	96997	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1

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Laboratory**Report****#54453**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	05/26/99	96997	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	05/26/99	96997	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	05/26/99	96997	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1

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Laboratory**Report****#54453****Foster Wheeler Environmental, Inc**
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	05/26/99	96997	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon)	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	05/26/99	96997	(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	97	% Rec		
			(Surrogate)	Toluene-d8	96	% Rec		

MW-992-056 (990520160)**Sampled on 05/20/99**

	05/28/99	97178	(ML/SM2320B)	Alkalinity	131	mg/l	2.0	1
	06/07/99		(ML/SM1040)	Anion Sum	3.71	meq/l	0.0010	1
05/25/99	05/28/99	96890	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
05/27/99	05/27/99	96843	(ML/EPA 200.7)	Calcium, Total, ICAP	23.6	mg/l	1.0	1
	05/28/99		(ML/SM1040)	Cation Sum	3.82	meq/l	0.0010	1
	05/21/99	96709	(ML/EPA 300)	Chloride	12	mg/l	1.0	1
	06/05/99	97167	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	06/07/99		(ML/SM2320B)	Carbonate as CO3, Calculated	5.15	mg/l	0.0010	1
05/25/99	05/26/99	96831	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	05/20/99	96590	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	05/25/99	96684	(ML/S2510B)	Specific Conductance	350	umho/cm	4.0	1
05/25/99	05/26/99	96832	(EPA/ML 200.8)	Iron, Total, ICAP/MS	ND	ug/l	100	1
	06/07/99		(ML/SM2320B)	Bicarbonate as HCO3, calculated	158	mg/l	0.0010	1
05/27/99	05/27/99	96845	(ML/EPA 200.7)	Potassium, Total, ICAP	2.4	mg/l	1.0	1
05/27/99	05/27/99	96847	(ML/EPA 200.7)	Magnesium, Total, ICAP	18.3	mg/l	0.10	1
05/27/99	05/27/99	96849	(ML/EPA 200.7)	Sodium, Total, ICAP	24.7	mg/l	1.0	1
	05/21/99	96716	(ML/EPA 300.0)	Nitrate-N by IC	1.83	mg/l	0.10	1

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**Laboratory
Report
#54453**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
05/25/99	05/26/99	96833	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	05/24/99	96679	(ML/SM 4500HB)	Lab pH	8.7	Units	0.0010	1
	05/21/99	96717	(ML/EPA 300.0)	Sulfate	30.0	mg/l	2.0	1
	05/26/99	97043	(ML/SM2540C)	Total Dissolved Solid (TDS)	230	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	05/26/99	96997	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	05/26/99	96997	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	05/26/99	96997	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Chloroform (Trichloromethane)	4.6	ug/l	0.50	1

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**Laboratory
 Report
 #54453**

Foster Wheeler Environmental, Inc
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	05/26/99	96997	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Bromodichloromethane	0.6	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	05/26/99	96997	(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	96	% Rec		
			(Surrogate)	Toluene-d8	103	% Rec		

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Laboratory**Report****#54453**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-992-055 (990520161)					Sampled on 05/20/99			
	05/28/99	97178	(ML/SM2320B)	Alkalinity	167	mg/l	2.0	1
	06/07/99		(ML/SM1040)	Anion Sum	7.14	meq/l	0.0010	1
05/25/99	05/27/99	96890	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
05/27/99	05/27/99	96843	(ML/EPA 200.7)	Calcium, Total, ICAP	78.3	mg/l	1.0	1
	05/28/99		(ML/SM1040)	Cation Sum	7.07	meq/l	0.0010	1
	05/21/99	96709	(ML/EPA 300)	Chloride	36.9	mg/l	1.0	1
	06/05/99	97167	(MOD/EPA 300)	Perchlorate	4.4	ug/l	4.0	1
	06/07/99		(ML/SM2320B)	Carbonate as CO ₃ , Calculated	0.832	mg/l	0.0010	1
05/25/99	05/26/99	96831	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	05/20/99	96590	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	05/25/99	96684	(ML/S2510B)	Specific Conductance	660	umho/cm	4.0	1
05/25/99	05/26/99	96832	(EPA/ML 200.8)	Iron, Total, ICAP/MS	ND	ug/l	100	1
	06/07/99		(ML/SM2320B)	Bicarbonate as HCO ₃ , calculated	203	mg/l	0.0010	1
05/27/99	05/27/99	96845	(ML/EPA 200.7)	Potassium, Total, ICAP	3.3	mg/l	1.0	1
05/27/99	05/27/99	96847	(ML/EPA 200.7)	Magnesium, Total, ICAP	26.4	mg/l	0.10	1
05/27/99	05/27/99	96849	(ML/EPA 200.7)	Sodium, Total, ICAP	20.7	mg/l	1.0	1
	05/21/99	96716	(ML/EPA 300.0)	Nitrate-N by IC	8.29	mg/l	0.10	1
05/25/99	05/26/99	96833	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	05/24/99	96679	(ML/SM 4500HB)	Lab pH	7.8	Units	0.0010	1
	05/21/99	96717	(ML/EPA 300.0)	Sulfate	104	mg/l	2.0	1
	05/27/99	96986	(ML/SM2540C)	Total Dissolved Solid (TDS)	420	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	05/26/99	96997	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1

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**Laboratory
Report
#54453**Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	05/26/99	96997	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	05/26/99	96997	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	05/26/99	96997	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Chloroform (Trichloromethane)	1.9	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Chloromethane (Methyl Chloride)	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/ES24.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1

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**Laboratory
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#54453**

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	05/26/99	96997	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Trichlorotrifluoroethane (Freon	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	05/26/99	96997	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	108	% Rec		
			(Surrogate)	4-Bromofluorobenzene	101	% Rec		
			(Surrogate)	Toluene-d8	94	% Rec		

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QC Report

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Foster Wheeler Environmental, Inc

QC Batch #96590**Hexavalent chromium (Cr VI)**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0520159		(0.00 - 0.00)	
LCS1	Hexavalent chromium (Cr VI)	0.050	0.0503	100.6	(78.00 - 118.00)	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.0503	100.6	(78.00 - 118.00)	0.00
MBLK	Hexavalent chromium (Cr VI)	ND				
MS	Hexavalent chromium (Cr VI)	0.050	0.0497	99.4	(80.00 - 120.00)	
MSD	Hexavalent chromium (Cr VI)	0.050	0.0503	100.6	(80.00 - 120.00)	1.2

QC Batch #96679**Lab pH**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	lab # 99	0521159		(0.00 - 0.00)	

QC Batch #96684**Specific Conductance**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 99	0521155		(0.00 - 0.00)	

QC Batch #96709**Chloride**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0520157		(0.00 - 0.00)	
LCS1	Chloride	25	26.0	104.0	(90.00 - 110.00)	
LCS2	Chloride	25	25.8	103.2	(90.00 - 110.00)	0.77
MBLK	Chloride	ND				
MS	Chloride	25	27.4	109.6	(80.00 - 120.00)	
MSD	Chloride	25	27.4	109.6	(80.00 - 120.00)	0.00

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Foster Wheeler Environmental, Inc
(continued)**QC Batch #96716****Nitrate-N by IC**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0520157		(0.00 - 0.00)	
LCS1	Nitrate-N by IC	2.5	2.68	107.2	(90.00 - 110.00)	
LCS2	Nitrate-N by IC	2.5	2.61	104.4	(90.00 - 110.00)	2.6
MBLK	Nitrate-N by IC	ND				
MS	Nitrate-N by IC	2.5	2.69	107.6	(80.00 - 120.00)	
MSD	Nitrate-N by IC	2.5	2.70	108.0	(80.00 - 120.00)	0.37

QC Batch #96717**Sulfate**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0520157		(0.00 - 0.00)	
LCS1	Sulfate	50	52.4	104.8	(90.00 - 110.00)	
LCS2	Sulfate	50	52.3	104.6	(90.00 - 110.00)	0.19
MBLK	Sulfate	ND				
MS	Sulfate	50	55.9	111.8	(80.00 - 120.00)	
MSD	Sulfate	50	56.0	112.0	(80.00 - 120.00)	0.18

QC Batch #96831**Chromium, Total, ICAP/MS**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0519080		(0.00 - 0.00)	
LCS1	Chromium, Total, ICAP/MS	100	98	98.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	97	97.0	(85.00 - 115.00)	1.0
MBLK	Chromium, Total, ICAP/MS	ND				
MS	Chromium, Total, ICAP/MS	100	99	99.0	(70.00 - 130.00)	
MSD	Chromium, Total, ICAP/MS	100	101	101.0	(70.00 - 130.00)	2.0

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Foster Wheeler Environmental, Inc
(continued)**QC Batch #96832****Iron, Total, ICAP/MS**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0519080		(0.00 - 0.00)	
LCS1	Iron, Total, ICAP/MS	500	520	104.0	(85.00 - 115.00)	
LCS2	Iron, Total, ICAP/MS	500	540	108.0	(85.00 - 115.00)	3.8
MBLK	Iron, Total, ICAP/MS	ND				
MS	Iron, Total, ICAP/MS	500	500	100.0	(70.00 - 130.00)	
MSD	Iron, Total, ICAP/MS	500	490	98.0	(70.00 - 130.00)	2.0

QC Batch #96833**Lead, Total, ICAP/MS**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0519080		(0.00 - 0.00)	
LCS1	Lead, Total, ICAP/MS	20.0	19.9	99.5	(85.00 - 115.00)	
LCS2	Lead, Total, ICAP/MS	20.0	20.0	100.0	(85.00 - 115.00)	0.50
MBLK	Lead, Total, ICAP/MS	ND				
MS	Lead, Total, ICAP/MS	20.0	22.2	111.0	(70.00 - 130.00)	
MSD	Lead, Total, ICAP/MS	20.0	22.9	114.5	(70.00 - 130.00)	3.1

QC Batch #96843**Calcium, Total, ICAP**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0520157		(0.00 - 0.00)	
LCS1	Calcium, Total, ICAP	50	51.0	102.0	(85.00 - 115.00)	
LCS2	Calcium, Total, ICAP	50	51.9	103.8	(85.00 - 115.00)	1.7
MBLK	Calcium, Total, ICAP	ND				
MS	Calcium, Total, ICAP	50	53.2	106.4	(70.00 - 130.00)	
MSD	Calcium, Total, ICAP	50	51.1	102.2	(70.00 - 130.00)	4.0

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Foster Wheeler Environmental, Inc
(continued)**QC Batch #96845****Potassium, Total, ICAP**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0520157		(0.00 - 0.00)	
LCS1	Potassium, Total, ICAP	20	20.2	101.0	(80.00 - 110.00)	
LCS2	Potassium, Total, ICAP	20	20.6	103.0	(80.00 - 110.00)	2.0
MBLK	Potassium, Total, ICAP	ND				
MS	Potassium, Total, ICAP	20	20.9	104.5	(80.00 - 120.00)	
MSD	Potassium, Total, ICAP	20	20.2	101.0	(80.00 - 120.00)	3.4

QC Batch #96847**Magnesium, Total, ICAP**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0520157		(0.00 - 0.00)	
LCS1	Magnesium, Total, ICAP	20	20.8	104.0	(85.00 - 115.00)	
LCS2	Magnesium, Total, ICAP	20	21.2	106.0	(85.00 - 115.00)	1.9
MBLK	Magnesium, Total, ICAP	ND				
MS	Magnesium, Total, ICAP	20	22.3	111.5	(70.00 - 130.00)	
MSD	Magnesium, Total, ICAP	20	21.4	107.0	(70.00 - 130.00)	4.1

QC Batch #96849**Sodium, Total, ICAP**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0520157		(0.00 - 0.00)	
LCS1	Sodium, Total, ICAP	50	51.0	102.0	(85.00 - 115.00)	
LCS2	Sodium, Total, ICAP	50	52.1	104.2	(85.00 - 115.00)	2.1
MBLK	Sodium, Total, ICAP	ND				
MS	Sodium, Total, ICAP	50	47.3	94.6	(70.00 - 130.00)	
MSD	Sodium, Total, ICAP	50	44.5	89.0	(70.00 - 130.00)	6.1

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Foster Wheeler Environmental, Inc
(continued)**QC Batch #96890****Arsenic, Total, GF**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0519080		(0.00 - 0.00)	
LCS1	Arsenic, Total, GF	0.020	0.0205	102.5	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.0199	99.5	(85.00 - 115.00)	3.0
MBLK	Arsenic, Total, GF	ND				
MS	Arsenic, Total, GF	0.020	0.0215	107.5	(70.00 - 130.00)	
MSD	Arsenic, Total, GF	0.020	0.0217	108.5	(70.00 - 130.00)	0.93

QC Batch #96986**Total Dissolved Solid (TDS)**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 99	0520161		(0.00 - 0.00)	
LCS1	Total Dissolved Solid (TDS)	175	176	100.6	(85.00 - 115.00)	
LCS2	Total Dissolved Solid (TDS)	700	678	96.9	(85.00 - 115.00)	
MBLK	Total Dissolved Solid (TDS)	ND				

QC Batch #96997**Regulated VOCs plus Lists 1&3**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1,1-Trichloroethane	4	4.03	100.8	(70.00 - 130.00)	
MBLK	1,1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	4.29	107.2	(70.00 - 130.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2,2-Trichloroethane	4	4.39	109.7	(70.00 - 130.00)	
MBLK	1,1,2,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	4.58	114.5	(70.00 - 130.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	3.78	94.5	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MS	1,1-Dichloroethylene	4	3.73	93.2	(70.00 - 130.00)	

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MSD	1,1-Dichloroethylene	4	3.43	85.8	(70.00 - 130.00)	8.4
MBLK	1,1-Dichloropropene	ND				
MBLK	1,2,3-Trichlorobenzene	ND				
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	4	4.19	104.8	(70.00 - 130.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	4	4.17	104.2	(70.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	4	4.12	103.0	(70.00 - 130.00)	
MBLK	1,2-Dichloropropane	ND				
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	8	8.04	100.5	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
LCS1	p-Dichlorobenzene (1,4-DCB)	4	4.19	104.8	(70.00 - 130.00)	
MBLK	p-Dichlorobenzene (1,4-DCB)	ND				
MBLK	2,2-Dichloropropane	ND				
MBLK	2-Butanone (MEK)	ND				
MBLK	2-Chloroethylvinylether	ND				
MBLK	o-Chlorotoluene	ND				
MBLK	p-Chlorotoluene	ND				
MBLK	4-Methyl-2-Pentanone (MIBK)	ND				
MS	Spiked sample	Lab # 99	0524254		(0.00 - 0.00)	
LCS1	Benzene	4	4.01	100.2	(70.00 - 130.00)	
MBLK	Benzene	ND				
MS	Benzene	4	4.12	103.0	(70.00 - 130.00)	
MSD	Benzene	4	4.20	105.0	(70.00 - 130.00)	1.9
MBLK	Bromobenzene	ND				
MBLK	Bromomethane (Methyl Bromide)	ND				
LCS1	cis-1,2-Dichloroethylene	4	4.17	104.2	(70.00 - 130.00)	
MBLK	cis-1,2-Dichloroethylene	ND				
LCS1	Chlorobenzene	4	4.18	104.5	(70.00 - 130.00)	
MBLK	Chlorobenzene	ND				
MS	Chlorobenzene	4	4.25	106.2	(70.00 - 130.00)	
MSD	Chlorobenzene	4	4.21	105.2	(70.00 - 130.00)	0.95
LCS1	Carbon Tetrachloride	4	4.01	100.2	(70.00 - 130.00)	
MBLK	Carbon Tetrachloride	ND				

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MBLK	cis-1,3-Dichloropropene	ND			
LCS1	Bromoform	4	3.98	99.5	(70.00 - 130.00)
MBLK	Bromoform	ND			
LCS1	Chloroform (Trichloromethane)	4	4.09	102.2	(70.00 - 130.00)
MBLK	Chloroform (Trichloromethane)	ND			
MBLK	Bromochloromethane	ND			
MBLK	Chloroethane	ND			
MBLK	Chloromethane (Methyl Chloride)	ND			
LCS1	Chlorodibromomethane	4	4.02	100.5	(70.00 - 130.00)
MBLK	Chlorodibromomethane	ND			
MBLK	Dibromomethane	ND			
LCS1	Bromodichloromethane	4	4.21	105.2	(70.00 - 130.00)
MBLK	Bromodichloromethane	ND			
LCS1	Dichloromethane	4	4.80	120.0	(70.00 - 130.00)
MBLK	Dichloromethane	ND			
LCS1	Ethyl benzene	4	4.12	103.0	(70.00 - 130.00)
MBLK	Ethyl benzene	ND			
MBLK	Dichlorodifluoromethane	ND			
LCS1	Fluorotrichloromethane-Freon11	2	2.05	102.5	(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	8.09	101.1	(70.00 - 130.00)
MBLK	m,p-Xylenes	ND			
MBLK	Naphthalene	ND			
MBLK	n-Butylbenzene	ND			
MBLK	n-Propylbenzene	ND			
LCS1	o-Xylene	4	4.16	104.0	(70.00 - 130.00)
MBLK	o-Xylene	ND			
LCS1	o-Dichlorobenzene (1,2-DCB)	4	4.06	101.5	(70.00 - 130.00)
MBLK	o-Dichlorobenzene (1,2-DCB)	ND			
LCS1	Tetrachloroethylene (PCE)	4	4.13	103.2	(70.00 - 130.00)
MBLK	Tetrachloroethylene (PCE)	ND			
MBLK	p-Isopropyltoluene	ND			
MBLK	sec-Butylbenzene	ND			
LCS1	Styrene	4	4.39	109.7	(70.00 - 130.00)

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MBLK	Styrene	ND				
LCS1	1,2-dichloroethane-d4	100	105	105.0	(80.00 - 120.00)	
MBLK	1,2-dichloroethane-d4	100	100	100.0		
MS	1,2-dichloroethane-d4	100	103	103.0	(80.00 - 120.00)	
MSD	1,2-dichloroethane-d4	100	103	103.0	(80.00 - 120.00)	0.00
LCS1	Toluene-d8	100	101	101.0	(80.00 - 120.00)	
MBLK	Toluene-d8	100	97.4	97.4		
MS	Toluene-d8	100	98.2	98.2	(80.00 - 120.00)	
MSD	Toluene-d8	100	97.3	97.3	(80.00 - 120.00)	0.92
LCS1	4-Bromofluorobenzene	100	101	101.0	(80.00 - 120.00)	
MBLK	4-Bromofluorobenzene	100	102	102.0		
MS	4-Bromofluorobenzene	100	102	102.0	(80.00 - 120.00)	
MSD	4-Bromofluorobenzene	100	102	102.0	(80.00 - 120.00)	0.00
LCS1	trans-1,2-Dichloroethylene	4	4.16	104.0	(70.00 - 130.00)	
MBLK	trans-1,2-Dichloroethylene	ND				
MBLK	tert-Butylbenzene	ND				
LCS1	Trichloroethylene (TCE)	4	3.78	94.5	(70.00 - 130.00)	
MBLK	Trichloroethylene (TCE)	ND				
MS	Trichloroethylene (TCE)	4	4.36	109.0	(70.00 - 130.00)	
MSD	Trichloroethylene (TCE)	4	4.40	110.0	(70.00 - 130.00)	0.91
LCS1	Trichlorotrifluoroethane (Freon	2	2.36	118.0	(70.00 - 130.00)	
MBLK	Trichlorotrifluoroethane (Freon	ND				
MBLK	trans-1,3-Dichloropropene	ND				
LCS1	Toluene	4	4.11	102.8	(70.00 - 130.00)	
MBLK	Toluene	ND				
MS	Toluene	4	4.28	107.0	(70.00 - 130.00)	
MSD	Toluene	4	4.12	103.0	(70.00 - 130.00)	3.8
LCS1	Vinyl chloride (VC)	2	1.98	99.0	(70.00 - 130.00)	
MBLK	Vinyl chloride (VC)	ND				

QC Batch #97043**Total Dissolved Solid (TDS)**

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 99	0519077		(0.00 - 0.00)	
LCS1	Total Dissolved Solid (TDS)	175	170	97.1	(85.00 - 115.00)	
LCS2	Total Dissolved Solid (TDS)	700	670	95.7	(85.00 - 115.00)	

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



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Laboratory
QC Report
#54453

Foster Wheeler Environmental, Inc
(continued)

MBLK Total Dissolved Solid (TDS) ND

QC Batch #97167

Perchlorate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0519080		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	18.1	90.5	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	18.3	91.5	(90.00 - 110.00)	1.1
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	18.2	91.0	(75.00 - 125.00)	
MSD	Perchlorate	20.0	20.1	100.5	(75.00 - 125.00)	9.9

QC Batch #97178

Alkalinity

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0520157		(0.00 - 0.00)	
LCS1	Alkalinity	96.2	99.2	103.1	(90.00 - 110.00)	
LCS2	Alkalinity	96.2	97.9	101.8	(90.00 - 110.00)	1.3
MBLK	Alkalinity	ND				
MS	Alkalinity	96.2	99.1	103.0	(80.00 - 120.00)	
MSD	Alkalinity	96.2	99.1	103.0	(80.00 - 120.00)	0.00

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