Previous

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-20 Depth: 230 Date: 2/25/99

Well Name: MW-20 Sampling Zone No.: 1 Starting Time: 1420 Finishing Time: 1515

Technicians: J. BRENNAN; B. FELDPAUSCH

Water Level Inside MP Casing (Beginning of Session) 13.90 (PSIA) (End of Session) 14.05

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	✓	✓	✓	✓	✓	✓	13.90	✓	1429	1433	✓	14.11	1.0	1ST RUN; INITIAL PARAMETERS; NTUS = 0.5/
2	✓	✓	✓	✓	✓	✓	13.87	✓	1447	1451	✓	14.01	1.0	2ND RUN; COLLECT MW-FII-025 2VOAS, METALS, ANIONS
3	✓	✓	✓	✓	✓	✓	13.92	✓	1505	1510	✓	14.05	1.0	3RD RUN; Cr6+, CIO4; FINAL PARAMETERS
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: PRESS. OUTSIDE MP CASING = 30.16 (PSIA)

Total Volume: 3.0 L

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-20 Depth: 562 Date: 2/25/99

Well Name: MW-20 Sampling Zone No.: 3 Starting Time: 1200 Finishing Time: 1310

Technicians: J. BRENNER, B. FELDHAUSEN

Water Level Inside MP Casing (Beginning of Session) 119.48 (PSIA) (End of Session) 119.42 (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	✓	✓	✓	✓	✓	✓	119.48	✓	1241	1213	✓	119.46	1.0	1ST RUN, INITIAL PARAMETERS, NTUS = 0.10
2	✓	✓	✓	✓	✓	✓	119.43	✓	1234	1236	✓	119.44	1.0	2ND RUN: COLLECT MW-FII-023, -023MS, -023MSD, 6 VOAS, 2 METALS, 1/2 ANIONS
3	✓	✓	✓	✓	✓	✓	119.46	✓	1300	1302	✓	119.42	1.0	3RD RUN: 1/2 ANIONS, C_6, C_{10}, FINAL PARAMETERS
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: PRESS. OUTSIDE MP CASING = 175.78 (PSIA)

Total Volume: 3.0 L

F-2

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-20 Depth: 700 Date: 2/25/94

Well Name: MW-20 Sampling Zone No.: 4 Starting Time: 1035 Finishing Time: 1150

Technicians J. BRENNER, B.

Water Level Inside MP Casing (Beginning of Session) 179.52 (PSIA) (End of Session) 178.50 (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	✓	✓	✓	✓	✓	✓	179.52	✓	1045	1047	✓	179.54	1.0	1ST RUN; INITIAL PARAMETERS NTU'S = 0.83
2	✓	✓	✓	✓	✓	✓	179.56	✓	1116	1110	✓	179.55	1.0	2ND RUN: COLLECT MW-991-022. ZVOA'S, METALS, ANIONS, C-14
3	✓	✓	✓	✓	✓	✓	178.50	✓	1144	1145	✓	178.50	0.5	3RD RUN: C104; FINAL PARAMETERS
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: PRESS. OUTSIDE MP CASING = 231.16 PSIA

Total Volume: 2.5 L

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-20 Depth: 900 Date: 2/25/99

Well Name: MW-20 Sampling Zone No.: 5 Starting Time: 0830 Finishing Time: 1020

Technicians: J. BRENNER, B. FELDPAUSCH

Water Level Inside MP Casing (Beginning of Session) 266.47 (PS.A) (End of Session) 265.41 (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	✓	✓	✓	✓	✓	✓	266.47	✓	0850	0852	✓	266.46	1.0	1ST RUN; INITIAL PARAMETERS NTU'S = 1.02
2	✓	✓	✓	✓	✓	✓	266.43	✓	0936	0930	✓	266.39	1.0	2ND RUN; COLLECT MW-CFH-021; VOCS, METAL, ANIONS, Cr^{6+}
3	✓	✓	✓	✓	✓	✓	265.40	✓	1010	1011	✓	265.41	0.5	3RD RUN; ClO_4; FINAL PARAMETERS
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: PRESS. OUTSIDE MP CASING = 321.06 PS.A

Total Volume: 2.5 L

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-21 Depth: 90 Date: 3/16/99

Well Name: MW.21 Sampling Zone No.: 1 Starting Time: 1250 Finishing Time: 1340

Technicians J. BIZZNER, I. MAYES, D. TIETJE

Water Level Inside MP Casing (Beginning of Session) 15.18 (PS.A) (End of Session) 15.05 (PS.A)

Run No.	Surface Function Checks: Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Position Sampler: Deactivate Set Arm Locate Port	Surface Collection Checks: Water Level in MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level in MP (ft) Remove Tape	Volume Retrieved (liters)	Comments
1	✓	✓	✓	✓	✓	✓	15.18	✓	1255	1259	✓	15.18	1.0	1ST RUN TO SCREEN #1 NTU'S = 0.27
2	✓	✓	✓	✓	✓	✓	15.05	✓	1310	1315	✓	15.11	1.0	2ND RUN COLLECT MW-9911-020 2 VOAS METALS ANIONS
3	✓	✓	✓	✓	✓	✓	15.01	✓	1325	1332	✓	15.05	1.0	3RD RUN Cr6+, Clo4, FINAL PARAMETERS
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: PRESS. OUTSIDE MP CASING = 20.71 (PS.A)

Total Volume: 3.0L

F-2

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-21 Depth: 161 Date: 3/16/99

Well Name: MW-21 Sampling Zone No.: 2 Starting Time: 1155 Finishing Time: 1245

Technicians J. BRENNER, I. MAYES, D. TIEJE

Water Level Inside MP Casing (Beginning of Session) 46.56 (PS.A) (End of Session) 46.54 (PS.A)

Run No.	Surface Function Checks: Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Position Sampler: Deactivate Set Arm Locate Port	Surface Collection Checks: Water Level in MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level in MP (ft) Remove Tape	Volume Retrieved (liters)	Comments
1	✓	✓	✓	✓	✓	✓	46.56	✓	1203	1206	~~46.57~~ ✓	46.57	1.0	1ST RUN; INITAL PARAMETERS, NTO'S = 0.04
2	✓	✓	✓	✓	✓	✓	46.57	✓	1219	1223	✓	~~46.55~~	1.0	2ND RUN; COLLECT MW-9711-CVG, 2VOAS, METALS, ANIONS, C-61
3	✓	✓	✓	✓	✓	✓	46.55	✓	1237	1241	✓	46.54	1.0	3RD RUN; C104; FINAL PARAMETERS
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: PRESS. OUTSIDE MP CASING = 59.15 (PS.A) Total Volume: 3.0 L F-2

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-21 Depth: 240 Date: 3/16/99

Well Name: MW-21 Sampling Zone No.: 3 Starting Time: 1050 Finishing Time: 1150

Technicians J. BRENNER, I. MAYES, D. TIETJE

Water Level Inside MP Casing (Beginning of Session) 81.08 (PSIA) (End of Session) 81.02 (PSIA)

Run No.	Surface Function Checks: Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Position Sampler: Deactivate Set Arm Locate Port	Surface Collection Checks: Water Level in MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level in MP (ft) Remove Tape	Volume Retrieved (liters)	Comments
1	✓	✓	✓	✓	✓	✓	81.08	✓	1059	1101	✓	81.05	1.0	1ST RUN; INITIAL PARAMETERS NTU'S = 416
2	✓	✓	✓	✓	✓	✓	81.07	✓	1117	1120	✓	81.05	1.0	2ND RUN; COLLECT MW-21-018; -018MS 018MSD; 6VOAS, 2METALS, 1/2 ANIONS
3														
4	✓	✓	✓	✓	✓	✓	81.02	✓	1140	1142	✓	81.02	1.0	3RD RUN; 1/2 ANIONS; CHR, CLO4 FINAL PARAMETERS
5														
6														
7														
8														
9														
10														
11														
12														

Comments: PRESS. OUTSIDE MP CASING = 93.36 PSIA

Total Volume: 3.0 L

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-21 Depth: 310 Date: 3/16/95

Well Name: MW-21 Sampling Zone No.: 4 Starting Time: 0945 Finishing Time: 1045

Technicians J. BRENNER, I. MAYES, D. TIETJE

Water Level Inside MP Casing (Beginning of Session) 111.18 (PSIA) (End of Session) 111.19 PSIA

Run No.	Surface Function Checks: Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Position Sampler: Deactivate Set Arm Locate Port	Surface Collection Checks: Water Level in MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level in MP (ft) Remove Tape	Volume Retrieved (liters)	Comments
1	✓	✓	✓	✓	✓	✓	111.18	✓	0952	0954	~~111.20~~ ✓	111.20	1.0	1ST RUN INITIAL PARAMETERS; NTU'S = 13.1
2	✓	✓	✓	✓	✓	✓	111.21	✓	1010	1012	✓	111.20	1.0	2ND RUN NTU'S = 3.89; CLOSEST MW-9[illegible]-017, 2400 METERS
3	✓	✓	✓	✓	✓	✓	111.19	✓	1036	1038	✓	111.19	1.0	ANIONS 3RD RUN; CL, F, SO4 FINAL PARAMETERS
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: PRESS. OUTSIDE MP CASING = 123.16 PSIA

Total Volume: 3.0 L F2

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-21 Depth: 372 Date: 3/16/99

Well Name: MW-21 Sampling Zone No.: 5 Starting Time: 0940 Finishing Time: 0940

Technicians J. BIZENNEL, I. MAYES, D.T

Water Level Inside MP Casing (Beginning of Session) 138.20 (PS.A) (End of Session) 137.10 (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	✓	✓	✓	✓	✓	✓	138.20	✓	0850	0852	~~1338~~ ✓	138.16	1.0	1ST RUN; INITIAL PARAMETERS; NTU'S = 4.89
2	✓	✓	✓	✓	✓	✓	138.20	✓	0910	0912	✓	138.18	1.0	2ND RUN; COLLECT MW-991-016 2 VOAS, METALS, ANIONS C-64
3	✓	✓	✓	✓	✓	✓	137.03	✓	0931	0933	✓	137.10	0.5	3RD RUN; C104; FINAL PARAMETERS
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: PRESS. OUTSIDE MP CASING = 150.01 (PSIA)

Total Volume: 2.5

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-22 Depth: 245 Date: 3/9/97

Well Name: MW-22 Sampling Zone No.: 1 Starting Time: 1335 Finishing Time: 1500

Technicians: J. BRENNER, B. FELDPAUSCH

Water Level Inside MP Casing (Beginning of Session) 26.61 (PSIA) (End of Session) 29.69

Run No.	Surface Function Checks: Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Position Sampler: Deactivate Set Arm Locate Port	Surface Collection Checks: Water Level in MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level in MP (ft) Remove Tape	Volume Retrieved (liters)	Comments
1	✓	✓	✓	✓	✓	✓	26.61	✓	1342	1345	✓	26.63	1.0	1ST RUN; INITIAL PARAMETERS, NTU'S = 545
2	✓	✓	✓	✓	✓	✓	29.72	✓	1425	1429	✓	29.69	1.0	2ND RUN; NTU'S = 220.1; COLLECT MW-9911-615-015MS -015MSD
3														6 VOAS, 2 METALS
4	✓	✓	✓	✓	✓	✓	29.70	✓	1443	1448	✓	29.69	1.0	3RD RUN; ANIONS, HEX. Cr, Cl04 FINAL PARAMETERS
5														
6														
7														
8														
9														
10														
11														
12														

Comments: PRESS. OUTSIDE MP CASING = 44.87 PSIA; * APPROX 1 gal PURGED BETWEEN RUN 1 AND RUN 2

Total Volume: 3.0L

F-2

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-22 Depth: 329 Date: 3/9/99

Well Name: MW-12 Sampling Zone No.: 2 Starting Time: 1155 Finishing Time: 1330

Technicians J. BRENNER, B. FELDPAUSCH

Water Level Inside MP Casing (Beginning of Session) 53.60 (End of Session) 63.51* (PS.A)

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	✓	✓	✓	✓	✓	✓	53.60	✓	1202	1205	53.61	✓	1.0	1ST RUN: INITIAL PARAMETERS NTU'S = 910.1
2	✓	✓	✓	✓	✓	✓	65.50	✓	1306	1308	63.49	✓	1.0	2ND* RUN: TURBIDITY = 8.10 NTU'S COLLECT MW-091-014: 2 VOAS, METALS
3														ANIONS
4	✓	✓	✓	✓	✓	✓	65.50	✓	1335	1327	63.51	✓	1.0	3RD RUN: Cr+6, ClO4, FINAL PARAMETERS
5														
6														
7														
8														
9														
10														
11														
12														

Comments: PRES. OUTSIDE MP CASING = 80.20 PSIA; * APPROX. 2.5 GALS PURGED BETWEEN RUN 1 AND RUN 2 IN ATTEMPT TO REDUCE TURBIDITY

Total Volume: 3.0L

F-2

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-22 Depth: 389 Date: 3/9/99

Well Name: MW-22 Sampling Zone No.: 3 Starting Time: 1055 Finishing Time: 1150

Technicians J. BRENNER; B. FELDPAUSCH

Water Level Inside MP Casing (Beginning of Session) 79.75 (PS.I.A) (End of Session) 78.69 (PS.I.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	✓	✓	✓	✓	✓	✓	79.75	✓	1105	1107	✓	79.72	1.0	1ST RUN, INITIAL PARAMETERS; NTUS = 5.13
2	✓	✓	✓	✓	✓	✓	79.73	✓	1125	1127	✓	79.69	1.0	2ND RUN; COLLECT MW-391-013, 2 VOAS METALS ANIONS C-bb
3	✓	✓	✓	✓	✓	✓	78.75	✓	1144	1146	✓	78.69	0.5	3RD RUN; CLOSE; FINAL PARAMETERS
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: PRESS. OUTSIDE MP CASING = 106.35 PS.I.A

Total Volume: 2.5 L F-2

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-22 Depth: 467 Date: 3/9/99

Well Name: MW-22 Sampling Zone No.: 4 Starting Time: 0940 Finishing Time: 1050

Technicians J. BRENNER, B. FELDPAUSCH

Water Level Inside MP Casing (Beginning of Session) 113.609 (PSIA) (End of Session) 113.64 (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	✓	✓	✓	✓	✓	✓	113.69	✓	0955	0958	✓	113.67	1.0	1ST RUN; INITIAL PARAMETERS; NTUS = 5.13
2	✓	✓	✓	✓	✓	✓	113.66	✓	1018	1021	✓	113.64	1.0	2ND RUN; COLLECT MW-491-012 2 VOAS, METALS, ANIONS, Cr^{+6}
3	✓	✓	✓	✓	✓	✓	113.65	✓	1043	1045	✓	113.64	1.0	3RD ClO_4; FINAL PARAMETERS
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: PRESS. OUTSIDE MP = 132.56 CASING

Total Volume: 3.0 L

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-22 Depth: 588 Date: 3/9/99

Well Name: MW-22 Sampling Zone No.: 5 Starting Time: 0820 Finishing Time: 0930

Technicians J. BRANNER, B. FELDPAUSCH

Water Level Inside MP Casing (Beginning of Session) 166.20 (PSIA) (End of Session) 166.19 (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	✓	✓	✓	✓	✓	✓	166.23	✓	0830	0833	✓	166.21	1.0	1ST RUN, INITIAL PARAMETERS; NTU'S = 2.63
2	✓	✓	✓	✓	✓	✓	166.23	✓	0856	0859	✓	166.20	1.0	2ND RUN, COLLECT MW-911-011 2 VOAS, METALS, ANIONS, C-6+
3	✓	✓	✓	✓	✓	✓	166.20	✓	0924	0926	✓	166.19	1.0	3RD RUN, CLOSE, FINAL PARAMETERS
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: PRESS. OUTSIDE MP CASING = 180.41 (PSIA)

Total Volume: 3.0 L

F-2

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-23 Depth: 174 Date: 3/11/99

Well Name: MW-23 Sampling Zone No.: 1 Starting Time: 1250 Finishing Time: 1330

Technicians J. BRENNER, B. FELDPAUSCH

Water Level Inside MP Casing (Beginning of Session) 33.26 (PS 1A) (End of Session) 33.19

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	✓	✓	✓	✓	✓	✓	33.26	✓	1254	1258	✓	33.16	1.0	1ST RUN; INITIAL PARAMETERS MNS = 4.24
2	✓	✓	✓	✓	✓	✓	33.23	✓	1308	1311	✓	33.19	1.0	2ND RUN; COLLECT MW-991-010 2 VOAS, METALS, ANIONS
3	✓	✓	✓	✓	✓	✓	33.19	✓	1323	1327	✓	33.19	1.0	3RD RUN; CL-61, C104; FINAL PARAMETERS
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments:

Total Volume: 3.0L F-2

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-23 Depth: 254 Date: 3/11/99

Well Name: MW-23 Sampling Zone No.: 2 Starting Time: 1155 Finishing Time: 1245

Technicians J. BRENNER, B. FELD FANSCHI

Water Level Inside MP Casing (Beginning of Session) 68.02 (PSIA) (End of Session) 67.99 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	✓	✓	✓	✓	✓	✓	68.02	✓	1203	1206	✓	68.01	1.0	1ST RUN, INITIAL PARAMETERS. NTUS = 2.53
2	✓	✓	✓	✓	✓	✓	68.00	✓	1220	1223	✓	68.02	1.0	2ND RUN, COLLECT MW-0791-0059 2VOAS, METALS, ANIONS, Cr-6+
3	✓	✓	✓	✓	✓	✓	67.99	✓	1239	1240	✓	67.99	1.0	3RD RUN: C104. FINAL PARAMETERS.
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments:

Total Volume: 3.0L

F2

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-23 Depth: 319 Date: 3/11/99

Well Name: MW-23 Sampling Zone No.: 3 Starting Time: 1050 Finishing Time: 1150

Technicians J. BRENNER, B. FELDPAUSCH

Water Level Inside MP Casing (Beginning of Session) 96.17 (PSIA) (End of Session) 96.14 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	✓	✓	✓	✓	✓	✓	96.17	✓	1055	1100	✓	96.17	1.0	1ST RUN; INITIAL PARAMETERS; NTU'S = 4.31
2	✓	✓	✓	✓	✓	✓	96.12	✓	1117	1120	✓	96.14	1.0	2ND RUN; COLLECT MW-991-0083, 008MS, 008MSD; 6VOAS, 2METALS 1/2 ANIONS
3														
4	✓	✓	✓	✓	✓	✓	96.12	✓	1141	1143	✓	96.14	1.0	3RD RUN; 1/2 ANIONS; Cr+6; ClO4; FINAL PARAMETERS
5														
6														
7														
8														
9														
10														
11														
12														

Comments:

Total Volume: 3.0L

F-2

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-23 Depth: 445 Date: 3/11/99

Well Name: MW-23 Sampling Zone No.: 4 Starting Time: 0945 Finishing Time: 1045

Technicians J. BRENNER, B. KELDPAUSCH

Water Level Inside MP Casing (Beginning of Session) 150.73 (FS.L) (End of Session) 150.39 (FS.L)

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	✓	✓	✓	✓	✓	✓	150.73	✓	955	0957	✓	150.76	1.0	1ST RUN, INITIAL PARAMETERS; NTU'S = 5.07
2	✓	✓	✓	✓	✓	✓	150.77	✓	1014	1016	✓	150.79	1.0	2ND RUN; COLLECT MW-SFG1-007 2 VOAS, METALS, ANIONS, Cr6+
3	✓	✓	✓	✓	✓	✓	150.35	✓	1036	1038	✓	150.39	0.5	3RD RUN; C104; FINAL PARAMETERS
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments:

Total Volume: 3.0 L

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-23 Depth: 542 Date: 3/11/99

Well Name: MW-23 Sampling Zone No.: 5 Starting Time: 0830 Finishing Time: 0940

Technicians J. BRENNER, B. FELDPAUSCH

Water Level Inside MP Casing (Beginning of Session) 192.76 (PSIA) (End of Session) 192.40 (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	✓	✓	✓	✓	✓	✓	192.76	✓	0843	0845	✓	192.77	1.0	1ST RUN, INITIAL PARAMETERS. NTUS = 3.19
2	✓	✓	✓	✓	✓	✓	192.78	✓	0906	0908	✓	192.83	1.0	2ND RUN, COLLECT MW-991-006 2VOAS, METALS, ANIONS, TOC
3	✓	✓	✓	✓	✓	✓	192.39	✓	0931	0933	✓	192.40	0.5	3RD RUN; C104, FINAL PARAMETERS
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: [redacted]

Total Volume: 2.5 L

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-24 Depth: 279 Date: 3/17/99

Well Name: MW-24 Sampling Zone No.: 1 Starting Time: 1345 Finishing Time: 1515

Technicians: J. BRENNER, T. MAYES

Water Level Inside MP Casing (Beginning of Session) 13.87 (PSIA) (End of Session) 13.96 (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	✓	✓	✓	✓	✓	✓	13.87	✓	1348	1352	✓	13.93	1.0	1ST RUN: INITIAL PARAMETERS; NTU'S = 7.63
2	✓	✓	✓	✓	✓	✓	13.83	✓	1410	1413	✓	13.87	1.0	2ND RUN, COLLECT MW-24/1005 2 VOA'S; 3/4 DIOXANE
3	✓	✓	✓	✓	✓	✓	13.93	✓	1430	1433	✓	13.93	1.0	3RD RUN: 1/4 DIOXANE; 1/2 NDMA
4	✓	✓	✓	✓	✓	✓	13.90	✓	1449	1451	✓	13.93	1.0	4TH RUN: 1/2 NDMA; METALS 1/2 ANIONS
5	✓	✓	✓	✓	✓	✓	13.80	✓	1505	1511	✓	13.96	1.0	5TH RUN: 1/2 ANIONS; Cr6+ ClO4; FINAL PARAMETERS
6														
7														
8														
9														
10														
11														
12														

Comments: PRESS. OUTSIDE MP CASING = 48.77 PSIA

Total Volume: 5.0 ℓ

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-24 Depth: 373 Date: 3/17/99

Well Name: MW-24 Sampling Zone No.: 2 Starting Time: 1235 Finishing Time: 1355

Technicians J. BRENNER, I. MAYES

Water Level Inside MP Casing (Beginning of Session) 54.17 (PSIA) (End of Session) 53.19 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	✓	✓	✓	✓	✓	✓	54.17	✓	1243	1245	✓	54.18	1.0	1ST RUN, INITIAL PARAMETERS NTUS = 4.17
2	✓	✓	✓	✓	✓	✓	54.17	✓	1307	1309	✓	54.18	1.0	2ND RUN; COLLECT MW-991-004; 2 VOAS, METALS, ANIONS CLP
3	✓	✓	✓	✓	✓	✓	53.20	✓	1327	1327	✓	53.19	0.5	3RD RUN, CLP, IGNAL PARAMETERS
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: PRES. OUTSIDE MP CASING = 86.21 PSIA

Total Volume: 2.5 L F2

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-24 Depth: 455 Date: 3/17/99

Well Name: MW-24 Sampling Zone No.: 3 Starting Time: 1205 Finishing Time: 1635

Technicians: J. BRENNER; I. MAYES

Water Level Inside MP Casing (Beginning of Session) 81.07 (PS.A) (End of Session) 92.85

Run No.	Surface Function Checks: Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Position Sampler: Deactivate Set Arm Locate Port	Surface Collection Checks: Water Level in MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level in MP (ft) Remove Tape	Volume Retrieved (liters)	Comments
1	✓	✓	✓	✓	✓	✓	81.07	✓	1219	1224	✓	81.15	1.0	1ST RUN, INITIAL PARAMETERS; NTU'S = 121.5
2	~~✓~~	~~✓~~	~~✓~~	~~✓~~	~~✓~~	~~✓~~	~~✓~~							*WILL RETURN LATER
3	✓	✓	✓	✓	✓	✓	92.86	✓	1615	1617	✓	92.55	1.0	1ST RUN AFTER PURGING 2.5 GALS.
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: PRESS. OUTSIDE MP CASING = 111.68 (PS.A)

Total Volume: 2.0

F-2

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-24 Depth: 435 Date: 3/18/99

Well Name: MW-24 Sampling Zone No.: 3 Starting Time: 1350 Finishing Time: 1450

Technicians J. BRENNER, D. DIRKS

Water Level Inside MP Casing (Beginning of Session) 101.11 (PS.A) (End of Session) 100.71 (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	✓	✓	✓	✓	✓	✓	101.11	✓	1401	1403	✓	101.12	1.0	1ST RUN; INITIAL PARAMETERS; NTUS = 3.8
2	✓	✓	✓	✓	✓	✓	101.09	✓	1421	1423	✓	101.10	1.0	2ND RUN; UNABLE TO REDUCE TURBIDITY AFTER PURGING
3														APPROX 1 PACKER VOLUME — COLLECT MW-991-003
4														2 VOAS, METALS, ANIONS, C+GI
5	✓	✓	✓	✓	✓	✓	100.67	✓	1442	1445	✓	100.71	0.5	3RD RUN; C109; FINAL PARAMETERS
6														
7														
8														
9														
10														
11														
12														

Comments: PRESS. OUTSIDE MP CASING = 111.99 (PS.A)

Total Volume: 2.5L

F-2

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-24 Depth: 554 Date: 3/12/99

Well Name: MW-24 Sampling Zone No.: 4 Starting Time: 1015 Finishing Time: 1130

Technicians J. BRENNER, B. FELDPAUSCH

Water Level Inside MP Casing (Beginning of Session) 133.07 (PS,A) (End of Session) 132.06 (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	✓	✓	✓	✓	✓	✓	133.07	✓	1027	1029	✓	133.06	1.0	1ST RUN, INITIAL PARAMETERS NTUs = 6.1
2	✓	✓	✓	✓	✓	✓	133.09	✓	1055	1057	✓	133.10	1.0	2ND RUN; COLLECT MW-554-002 2 VOAS, METALS, ANIONS
3	✓	✓	✓	✓	✓	✓	132.08	✓	1121	1123	✓	132.06	0.5	3RD RUN; CL6, CL04; FINAL PARAMETERS
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments: PRESS. OUTSIDE MP CASING = 152.86 (PS,A)

Total Volume: 2.5 L

F-2

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-24 Depth: 678 Date: 3/12/99

Well Name: MW-24 Sampling Zone No.: 5 Starting Time: 0820 Finishing Time: 1010

Technicians J. BRENNER, B. FELDPAUSCH

Water Level Inside MP Casing (Beginning of Session) 187.04 (PSID) (End of Session) 185.99

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	✓	✓	✓	✓	✓	✓	187.04	✓	0831	0833	✓	187.01	1.0	1ST RUN / INITIAL PARAMETERS; NTU'S = 46.7
2	✓	✓	✓	✓	✓	✓	187.03	✓	0859	0902	✓	187.01	1.0	2ND RUN, ATTEMPTING TO REDUCE TURBIDITY NTU'S = 5.70
3	✓	✓	✓	✓	✓	✓	187.01	✓	0927	0930	✓	187.01	1.0	3RD RUN, / COLLECT MW-991-001 2 VOAS METALS ANIONS CL-
4	✓	✓	✓	✓	✓	✓	185.97	✓	0957	0959	✓	185.99	0.5	4TH RUN, C104, FINAL PARAMETERS,
5														
6														
7														
8														
9														
10														
11														
12														

Comments: PRESS. OUTSIDE MP CASING = 196.89 (PSID)

Total Volume: 3.5 L F2

APPENDIX C

FIELD INSTRUMENT CALIBRATION FORMS

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPC
Standardization by: J. BRENNER Date: 2/24/99
Instrument Manufacturer: HF SCIENTIFIC Model: DRT-15CE
Serial Number: 11862 Calibration Date: 2/24/99

STANDARDIZATION

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

Time: 1600 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: 2/25/99
Instrument Manufacturer: H.F. SCIENTIFIC Model: DRT-15CE
Serial Number: 11862 Calibration Date: 2/25/99

STANDARDIZATION

Time: 0800 Scale: 10 Zero: YES Stray Light: N/A
Standard NTU: 0.02 Reading: 0.02
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: J. BRENNER Date: 2/26/99
Instrument Manufacturer: HF SCIENTIFIC Model: DRT-15CE
Serial Number: 11862 Calibration Date: 2/26/99

STANDARDIZATION

Time: 0745 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: JPL
Standardization by: J. Brenner Date: 3/1/99
Instrument Manufacturer: HF Scientific Model: DRT-15CE
Serial Number: Calibration Date: 3/1/99

STANDARDIZATION

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

Time: 1510 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: D. DIRKIN Date: 3/2/99
Instrument Manufacturer: HF SCIENTIFIC Model: DRT- 15CE
Serial Number: Calibration Date: 3/2/99

STANDARDIZATION

Time: 0900 Scale: 10 Zero: YES Stray Light: N/A
Standard NTU: 0.02 Reading: 0.02
Standard NTU: Reading:

Time: 1645 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: D. Dirkin Date: 3/3/99

Instrument Manufacturer: HF SCIENTIFIC Model: DRT-15CE

Serial Number: 11862 Calibration Date: 3/3/99

STANDARDIZATION

Time: 0650 Scale: 10 Zero: 0 Stray Light: N/A
Standard NTU: 0.02 Reading: 0.02
Standard NTU: Reading:

Time: 1130 Scale: 10 Zero: 0 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: D. Dirkin Date: 3/4/99

Instrument Manufacturer: A.F. Scientific Model: DRT-15CE

Serial Number: 11862 Calibration Date: 3/4/99

STANDARDIZATION

Time: 0805 Scale: 10 Zero: Ø Stray Light: N/A

Standard NTU: 0.02 Reading: 0.02

Standard NTU: Reading:

Time: 1445 Scale: 10 Zero: Ø 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: D. Dirkin Date: 3/5/99
Instrument Manufacturer: HF Scientific Model: DRT-15CE
Serial Number: 11862 Calibration Date: 3/5/99

STANDARDIZATION

Time: 0710 Scale: 10 x Zero: 0 Stray Light: N/A
Standard NTU: 0.02 Reading: 0.02
Standard NTU: Reading:

Time: 1435 Scale: 10 x Zero: 0 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: Bob Feldpausch Date: 3/8/99
Instrument Manufacturer: HF Scientific, Inc Model: DRT-15CE
Serial Number: 11862 Calibration Date: 3/8/99

STANDARDIZATION

Time: 8:10 Scale: 10 Zero: yes Stray Light: NA
Standard NTU: 0.02 Reading: 0.02
Standard NTU: Reading:

Time: 1300 Scale: 10 Zero: yes Stray Light: NA
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: Bob Feldpausch   Date: 3/9/99

Instrument Manufacturer: HF Scientific, Inc   Model: DRT-15CE

Serial Number: 11862   Calibration Date: 3/9/99

STANDARDIZATION

Time: 0810   Scale: 10   Zero: yes   Stray Light: NA
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: Dirkin Date: 3-10-99

Instrument Manufacturer: HF Scientific Model: DRT-15CE

Serial Number: ______ Calibration Date: 3-10-99

STANDARDIZATION

Time: 0830 Scale: 10x Zero: 0 Stray Light: N/A

Standard NTU: 0.02 Reading: 0.02

Standard NTU: ______ Reading: ______

Time: 1435 Scale: 10x Zero: 0 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: Bob Feldpausch Date: 3/11/98
Instrument Manufacturer: HF Scientific Inc Model: DRT-15CE
Serial Number: 11862 Calibration Date: 3/11/98

STANDARDIZATION

Time: 830 Scale: 10 Zero: Stray Light: NA
Standard NTU: 0.02 Reading: 0.02
Standard NTU: Reading:

Time: 1345 Scale: 10 Zero: Stray Light: NA
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: Bob Feldpausch Date: 3/12/99

Instrument Manufacturer: HF Scientific, Inc. Model: DRT-15CE

Serial Number: 11862 Calibration Date: 3/11/98

STANDARDIZATION

Time: 0815 Scale: 10 Zero: YES Stray Light: NA
Standard NTU: 0.02 Reading: 0.02
Standard NTU: Reading:

Time: 1145 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:
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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: 3/15/99
Instrument Manufacturer: HF Scientific Model: DRT-15CE
Serial Number: 11862 Calibration Date: 3/15/99

STANDARDIZATION

Time: 1015 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: J. Brenner Date: 3/16/99
Instrument Manufacturer: HF Scientific Model: DRT-15CE
Serial Number: 11862 Calibration Date: 3/16/99

STANDARDIZATION

Time: 0810 Scale: 10 Zero: YES Stray Light: N/A
Standard NTU: 0.02 Reading: 0.10
Standard NTU: Reading:

Time: 1345 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: 3/17/99

Instrument Manufacturer: HF. SCIENTIFIC Model: DRT-15CE

Serial Number: 11862 Calibration Date: 3/17/99

STANDARDIZATION

Time: 0830 Scale: 10 Zero: YES Stray Light: N/A

Standard NTU: 0.02 Reading: 0.02

Standard NTU: Reading:

Time: 1700 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: D. Dinkin Date: 3-18-99
Instrument Manufacturer: HF Scientific Model: DRT-15CE
Serial Number: 11862 Calibration Date: 3-18-99

STANDARDIZATION

Time: 0725 Scale: 10 x Zero: Yes Stray Light: N/A
Standard NTU: 0.02 Reading: 0.02
Standard NTU: Reading:

Time: 1455 Scale: 10x 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: 3/19/99

Instrument Manufacturer: H.F. Scientific Model: DRT-15CE

Serial Number: 11862 Calibration Date: 3/19/99

STANDARDIZATION

Time: 1000 Scale: 10 Zero: YES Stray Light: N/A

Standard NTU: 0.02 Reading: 0.02

Standard NTU: Reading:

Time: 1745 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: 3/22/99
Instrument Manufacturer: HF Scientific Model: DRT-15CE
Serial Number: 11862 Calibration Date: 3/22/99

STANDARDIZATION

Time: 0900 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: T. Turpin-Keasler Date: 3/23/99
Instrument Manufacturer: HF SCIENTIFIC Model: DRT-15CE
Serial Number: 11862 Calibration Date: 3/23/99

STANDARDIZATION

Time: 0715 Scale: 10 Zero: Yes Stray Light: N/A
Standard NTU: 0.02 Reading: 0.02
Standard NTU: Reading:

Time: 1145 Scale: 10 Zero: YES Stray Light: NA
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:

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: J. BRENNER Date: 2/24/99

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92B036734

pH Probe Manufacturer: YSI Model: 3530

Serial Number: 97M812436

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: 5/99

INSTRUMENTATION CHECK-OUT

Time: 0845 Battery Condition: GOOD

Instrument Readings with Shorting Plug in, mV: — Temperature: 22.2 pH: 6.37 ISO: —

Reference Chamber Solution Changed ?: ✓

pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0845 Slope: N/A Temperature: 12.0

Response to Low Buffer: 7.00 Response to High Buffer: 10.0

Time: 1600 Slope: N/A Temperature: 26.2

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: 2/25/99

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92B036734

pH Probe Manufacturer: YSI Model: 3536

Serial Number: 97M812436

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: 92M57441

Buffer Solution Manufacturer: CALTECH

Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 7/2000 pH 10.01: 5/99

INSTRUMENTATION CHECK-OUT

Time: 0900 Battery Condition: Good

Instrument Readings with Shorting Plug in, mV: — Temperature: 10.2 pH: 6.13 ISO: —

Reference Chamber Solution Changed ?: ✓

pH Probe Condition: Good

FIELD CALIBRATION

Time: 0800 Slope: N/A Temperature: 7.1

Response to Low Buffer: 7.00 Response to High Buffer: 10.0

Time: 1546 Slope: N/A Temperature: 19.6

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: 2/26/99

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92B0367 34

pH Probe Manufacturer: YSI Model: 3530

Serial Number: 98B 812637

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: 5/99

INSTRUMENTATION CHECK-OUT

Time: 0745 Battery Condition: Good

Instrument Readings with Shorting Plug in, mV: — Temperature: 8.5 pH: 7.1 ISO: —

Reference Chamber Solution Changed ?: ✓

pH Probe Condition: Good

FIELD CALIBRATION

Time: 0745 Slope: N/A Temperature: 6.9

Response to Low Buffer: 7.00 Response to High Buffer: 10.0

Time: 1450 Slope: N/A Temperature: 19.1

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: 3/1/99

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92B036734

pH Probe Manufacturer: YSI Model: 3530

Serial Number: 95B812637

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: 5/99

INSTRUMENTATION CHECK-OUT

Time: 0745 Battery Condition: Good

Instrument Readings with Shorting Plug in, mV: — Temperature: 12.7 pH: 6.73 ISO: —

Reference Chamber Solution Changed ?: ✓

pH Probe Condition: Good

FIELD CALIBRATION

Time: 0745 Slope: N/A Temperature: 9.1

Response to Low Buffer: 7.0 Response to High Buffer: 10.0

Time: 1510 Slope: N/A Temperature: 27.8

Response to Low Buffer: 7.0 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: D. Dirkin Date: 3/2/99

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92B03674

pH Probe Manufacturer: YSI Model: 3530

Serial Number: 98B812637

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: _____

INSTRUMENTATION CHECK-OUT

Time: 1350 Battery Condition: Good

Instrument Readings with Shorting Plug in, mV: — Temperature: 24.9 pH: 6.73 ISO: —

Reference Chamber Solution Changed ?: ✓

pH Probe Condition: Good

FIELD CALIBRATION

Time: 1350 Slope: N/A Temperature: 24.9

Response to Low Buffer: 7.0 Response to High Buffer: 10.0

Time: 1640 Slope: N/A Temperature: 23.2

Response to Low Buffer: 7.0 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: D. Dirkin Date: 3/3/99

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92B036734

pH Probe Manufacturer: YSI Model: 3530

Serial Number: 98B12637

ATC Probe Manufacturer: YSI Model: 3570

Serial Number: 92M57441

Buffer Solution Manufacturer: CALITECH

Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 7/2000 pH 10.01: 5/99

INSTRUMENTATION CHECK-OUT

Time: 0650 Battery Condition: Good

Instrument Readings with Shorting Plug in, mV: — Temperature: 11.3 pH: 6.54 ISO:

Reference Chamber Solution Changed ?: ✓

pH Probe Condition: Good

FIELD CALIBRATION

Time: 0650 Slope: N/A Temperature: 6.6

Response to Low Buffer: 6.64 Response to High Buffer: 7.63

Time: 1130 Slope: ~~70~~ N/A Temperature: ~~9.59~~ 16.0

Response to Low Buffer: 7.0 Response to High Buffer: 9.41

Time: Slope: Temperature:

Response to Low Buffer: Response to High Buffer:

Comments: * Difficulty calibrating instrument will attempt to identify the source for the problem.

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: D. Dixon Date: 3/4/99

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92B036734

pH Probe Manufacturer: YSI Model: 3530

Serial Number: 98B812637

ATC Probe Manufacturer: YSI Model: 3570

Serial Number: 92M57441

Buffer Solution Manufacturer: CALTECH

Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 7/2000 pH 10.01: 5/99

INSTRUMENTATION CHECK-OUT

Time: 0805 Battery Condition: Good

Instrument Readings with Shorting Plug in, mV: — Temperature: 10.0°C pH: 7.69 ISO: —

Reference Chamber Solution Changed ?: NO

pH Probe Condition: Good

FIELD CALIBRATION

Time: 0805 Slope: N/A Temperature: 11.2°C

Response to Low Buffer: 7.0 Response to High Buffer: 9.82 * 10.0

Time: 1445 Slope: N/A Temperature: 24.6

Response to Low Buffer: 7.0 Response to High Buffer: 10.0

Time: _____ Slope: _____ Temperature: _____

Response to Low Buffer: _____ Response to High Buffer: _____

Comments: ~~Could not calibrate to High Buffer~~ (DKD)

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: D. DIRKIN Date: 3/5/99

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92B036734

pH Probe Manufacturer: YSI Model: 3530

Serial Number: 98B812637

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: 92M57441

Buffer Solution Manufacturer: CAITECH

Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 7/2000 pH 10.01: 5/99

INSTRUMENTATION CHECK-OUT

Time: 0710 Battery Condition: Good

Instrument Readings with Shorting Plug in, mV: — Temperature: 6.9 pH: 8.29 ISO: —

Reference Chamber Solution Changed ?: NO

pH Probe Condition: Good

FIELD CALIBRATION

Time: 0710 Slope: N/A Temperature: 6.7°C

Response to Low Buffer: 7.0 Response to High Buffer: 10.0

Time: 1435 Slope: N/A Temperature: 16.4

Response to Low Buffer: 7.0 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: Bob Feldpausch Date: 3/8/99

Instrument Manufacturer: YSI, Inc Model: 3500

Serial Number: 92B03673

pH Probe Manufacturer: YSI Model: 3530

Serial Number: 98 3 812637

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: 92H29590

Buffer Solution Manufacturer: Hach

Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 7/28/00 pH 10.01: 5/23/99

INSTRUMENTATION CHECK-OUT

Time: 08:10 Battery Condition: good

Instrument Readings with Shorting Plug in, ~~mV~~: ~~45~~ Temperature: 11.3 pH: 7.31 ISO: —

Reference Chamber Solution Changed ?: ~~NO~~

pH Probe Condition: good

FIELD CALIBRATION

Time: 08:10 Slope: — Temperature: 89.5

Response to Low Buffer: 7.0 Response to High Buffer: 10.0

Time: 1300 Slope: — Temperature: 12.1

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: Bob Feldmeier Date: 3/9/99

Instrument Manufacturer: YSI, Inc Model: 3500

Serial Number: 92B03673

pH Probe Manufacturer: YSI, Inc Model: 3530

Serial Number: 98B812637

ATC Probe Manufacturer: YSI, Inc Model: 3510

Serial Number: 92429590

Buffer Solution Manufacturer: Hach

Expiration Dates of Buffer Solutions pH 4.01: - pH 7.00: 7/28/00 pH 10.01: 5/23/99

INSTRUMENTATION CHECK-OUT

Time: 0810 Battery Condition: Good

Instrument Readings with Shorting Plug in, mV: [illegible] Temperature: 7.8 pH: 6.76 ISO: -

Reference Chamber Solution Changed ?: -

pH Probe Condition: good

FIELD CALIBRATION

Time: 0810 Slope: - Temperature: 7.8

Response to Low Buffer: 7.0 Response to High Buffer: 10.0

Time: 1500 Slope: - Temperature: 14.1

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: D. DIRKIN Date: 3-10-99

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92B036734

pH Probe Manufacturer: YSI Model: 3530

Serial Number: 98B12637

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: 92M5741

Buffer Solution Manufacturer: CALTECH

Expiration Dates of Buffer Solutions pH 4.01: _____ pH 7.00: 7/2000 pH 10.01: 5/99

INSTRUMENTATION CHECK-OUT

Time: 0830 Battery Condition: Good

Instrument Readings with Shorting Plug in, mV: _____ Temperature: 15.0 pH: 7.01 ISO: _____

Reference Chamber Solution Changed ?: NO

pH Probe Condition: Good

FIELD CALIBRATION

Time: 0836 Slope: N/A Temperature: 9.0

Response to Low Buffer: 7.00 Response to High Buffer: 10.00

Time: 1435 Slope: N/A Temperature: 15.2

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: Bob Feldpausch Date: 3/11/99

Instrument Manufacturer: YSI, Inc Model: 3500

Serial Number: 92B036734

pH Probe Manufacturer: YSI, Inc Model: 3510

Serial Number: 92M5744

ATC Probe Manufacturer: YSI, Inc Model: 3520

Serial Number: 98C0631

Buffer Solution Manufacturer: Caltech

Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 7/28/00 pH 10.01: 5/23/99

INSTRUMENTATION CHECK-OUT

Time: 830 Battery Condition: good

Instrument Readings with Shorting Plug in, mV: — Temperature: 13.5 pH: 7.0 ISO: —

Reference Chamber Solution Changed ?: —

pH Probe Condition: good

FIELD CALIBRATION

Time: 830 Slope: — Temperature: 8.1

Response to Low Buffer: 7.0 Response to High Buffer: 10.0

Time: 1345 Slope: — Temperature: 12.5

Response to Low Buffer: 7.0 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: Bob Feldpausch Date: 3/12/99

Instrument Manufacturer: YSI, Inc. Model: 3500

Serial Number: 92B0367 34

pH Probe Manufacturer: YSI, Inc. Model: 3510

Serial Number: 92M5744 1

ATC Probe Manufacturer: YSI, Inc. Model: 3520

Serial Number: 98C031

Buffer Solution Manufacturer: Calitech

Expiration Dates of Buffer Solutions pH 4.01: _____ pH 7.00: _____ pH 10.01: _____

INSTRUMENTATION CHECK-OUT

Time: 0815 Battery Condition: good

Instrument Readings with Shorting Plug in, mV: - Temperature: 5.0 pH: 7.0 ISO: -

Reference Chamber Solution Changed ?: -

pH Probe Condition: good

FIELD CALIBRATION

Time: 0815 Slope: - Temperature: 4.7

Response to Low Buffer: 7.0 Response to High Buffer: 10.0

Time: 1145 Slope: — Temperature: 12.3

Response to Low Buffer: 7.0 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: 3/15/99
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: 98C0631
Buffer Solution Manufacturer: CALIBRET
Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 7/2000 pH 10.01: 11/2000

INSTRUMENTATION CHECK-OUT

Time: 1015 Battery Condition: Good
Instrument Readings with Shorting Plug in, mV: — Temperature: 12.5 pH: 7.0 ISO: —
Reference Chamber Solution Changed ?: ✓
pH Probe Condition: Good

FIELD CALIBRATION

Time: 1015 Slope: N/A Temperature: 12.5
Response to Low Buffer: 7.0 Response to High Buffer: 10.0
Time: 1430 Slope: N/A Temperature: 13.7
Response to Low Buffer: 7.0 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. BIRENNER Date: 3/16/99

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: 5/99

INSTRUMENTATION CHECK-OUT

Time: 0810 Battery Condition: GOOD

Instrument Readings with Shorting Plug in, mV: — Temperature: 10.7 pH: 7.01 ISO: —

Reference Chamber Solution Changed ?: ✓

pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0810 Slope: N/A Temperature: 6.2

Response to Low Buffer: 7.0 Response to High Buffer: 10

Time: 1345 Slope: N/A Temperature: 15.3

Response to Low Buffer: 7.0 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: 3/17/99

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92B036734

pH Probe Manufacturer: YSI Model: 3530

Serial Number: 98F913792

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: 92M57441

Buffer Solution Manufacturer: CALIFLA

Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 7/2000 pH 10.01: 5/99

INSTRUMENTATION CHECK-OUT

Time: 0830 Battery Condition: GOOD

Instrument Readings with Shorting Plug in, mV: — Temperature: 12.1 pH: 7.01 ISO: —

Reference Chamber Solution Changed ?: ✓

pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0830 Slope: N/A Temperature: 12.3

Response to Low Buffer: 7.0 Response to High Buffer: 10.0

Time: 1700 Slope: N/A Temperature:

Response to Low Buffer: 7.0 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: D. Dinkin Date: 3-18-99

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92B036734

pH Probe Manufacturer: YSI Model: 3530

Serial Number: 97M812436

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: 92M57441

Buffer Solution Manufacturer: CalTech

Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 7/2000 pH 10.01: 5/99

INSTRUMENTATION CHECK-OUT

Time: 0725 Battery Condition: Good

Instrument Readings with Shorting Plug in, mV: — Temperature: 9.3 pH: 7.37 ISO: —

Reference Chamber Solution Changed ?: ✓

pH Probe Condition: Good

FIELD CALIBRATION

Time: 0725 Slope: N/A Temperature: 9.3

Response to Low Buffer: 7.00 Response to High Buffer: 10.0

Time: 1455 Slope: N/A Temperature: 25.1

Response to Low Buffer: 7.00 Response to High Buffer:

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: 3/19/99

Instrument Manufacturer: YSI Model: 3560

Serial Number: 92B036734

pH Probe Manufacturer: YSI Model: 3530

Serial Number: 97M312436

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: 92M57441

Buffer Solution Manufacturer: CALTECH

Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 7/2000 pH 10.01: 5/99

INSTRUMENTATION CHECK-OUT

Time: 1000 Battery Condition: Good

Instrument Readings with Shorting Plug in, mV: — Temperature: 10.4 pH: 7.00 ISO: —

Reference Chamber Solution Changed ?: ✓

pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 1000 Slope: N/A Temperature: 10.1

Response to Low Buffer: 7.00 Response to High Buffer: 10.0

Time: 1745 Slope: N/A Temperature: 24.7

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: 3/22/99

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92B0360734

pH Probe Manufacturer: YSI Model: 3530

Serial Number: 98F813792

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: 92M57441

Buffer Solution Manufacturer: CALTECH

Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 7/2000 pH 10.01: 5/99

INSTRUMENTATION CHECK-OUT

Time: 0900 Battery Condition: Good

Instrument Readings with Shorting Plug in, mV: — Temperature: 16.6 pH: 7.00 ISO: —

Reference Chamber Solution Changed ?: ✓

pH Probe Condition: Good

FIELD CALIBRATION

Time: 0900 Slope: N/A Temperature: 11.9

Response to Low Buffer: 7.00 Response to High Buffer: 10.0

Time: 1455 Slope: N/A Temperature: 22.6

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: T. Torpyn-Keasler Date: 3/23/99

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: 5/99

INSTRUMENTATION CHECK-OUT

Time: 0715 Battery Condition: GOOD

Instrument Readings with Shorting Plug in, mV: ____ Temperature: 10.8 pH: 7.0 ISO: —

Reference Chamber Solution Changed ?: ✓

pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0715 Slope: N/A Temperature: 11.3

Response to Low Buffer: 7.20 Response to High Buffer: 10.00

Time: 1145 Slope: N/A Temperature: 22.9

Response to Low Buffer: 7.0 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%

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: J. BRENNER Date 2/24/99

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92303674

Probe Manufacturer: YSI Model: 3520

Serial Number: 95C0631

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1,000 µS/cm Solution Expiration Date: 10/99

FIELD CALIBRATION

Time: 0345 Temperature of Solution: 10.9

Temperature Compensated Solution Conductivity (µ S/cm)* 734

Instrument Response to Calibration Solution: 775

Instrument Response within Instrument and Probe Limits of Error: ** Yes: ✓ No: _____

Time: 1600 Temperature of Solution: 25.7

Temperature Compensated Solution Conductivity (µ S/cm)* 1014

Instrument Response to Calibration Solution: 1020

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) $(A + BT + CT^2)$

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 µmhos/cm on 500 scale; ≤1500 µmhos/cm on 5000 scale; or ≤15,000 µmhos/cm on 50,000 scale.

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

± 4.5% of calibration solution if reading is ≥ 300 µmhos/cm on 500 scale; ≥ 3000 µmhos/cm on 5000 scale; and ≥ 30,000 µmhos/cm on 50,000 scale.

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: J. BRENNER Date 2/25/99

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92B036734

Probe Manufacturer: YSI Model: 3520

Serial Number: 98C0631

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1,000 µS/cm Solution Expiration Date: 10/99

FIELD CALIBRATION

Time: 0800 Temperature of Solution: 7.0

Temperature Compensated Solution Conductivity (µ S/cm)* 663

Instrument Response to Calibration Solution: 696

Instrument Response within Instrument and Probe Limits of Error: ** Yes: ✓ No: _____

Time: 1545 Temperature of Solution: 19.2

Temperature Compensated Solution Conductivity (µ S/cm)* 889

Instrument Response to Calibration Solution: 903

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) $(A + BT + CT^2)$

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 µmhos/cm on 500 scale; ≤1500 µmhos/cm on 5000 scale; or ≤15,000 µmhos/cm on 50,000 scale.

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

± 4.5% of calibration solution if reading is ≥ 300 µmhos/cm on 500 scale; ≥ 3000 µmhos/cm on 5000 scale; and ≥ 30,000 µmhos/cm on 50,000 scale.

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: J. BRENNER Date 2/26/99

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92B036734

Probe Manufacturer: YSI Model: 3520

Serial Number: 94B79013

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1,000 µS/cm Solution Expiration Date: 8/99

FIELD CALIBRATION

Time: 0745 Temperature of Solution: 7.9

Temperature Compensated Solution Conductivity (µ S/cm)* 691

Instrument Response to Calibration Solution: 742

Instrument Response within Instrument and Probe Limits of Error: ** Yes: ____ No: ✓

Time: 0950 Temperature of Solution: 19.4

Temperature Compensated Solution Conductivity (µ S/cm)* 892

Instrument Response to Calibration Solution: 966

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) $(A + BT + CT^2)$

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 µmhos/cm on 500 scale; ≤1500 µmhos/cm on 5000 scale; or ≤15,000 µmhos/cm on 50,000 scale.

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

± 4.5% of calibration solution if reading is ≥ 300 µmhos/cm on 500 scale; ≥ 3000 µmhos/cm on 5000 scale; and ≥ 30,000 µmhos/cm on 50,000 scale.

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: J. BRENNER Date 3/1/99

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92B036734

Probe Manufacturer: YSI Model: 3520

Serial Number: 94B79013

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1,000 µS/cm Solution Expiration Date: 8/99

FIELD CALIBRATION

Time: 0745 Temperature of Solution: 9.8

Temperature Compensated Solution Conductivity (µ S/cm)* 714

Instrument Response to Calibration Solution: 700

Instrument Response within Instrument and Probe Limits of Error: ** Yes: ✓ No: _____

Time: 1510 Temperature of Solution: 27.6

Temperature Compensated Solution Conductivity (µ S/cm)* 1050

Instrument Response to Calibration Solution: 1036

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) $(A + BT + CT^2)$

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 µmhos/cm on 500 scale; ≤1500 µmhos/cm on 5000 scale; or ≤15,000 µmhos/cm on 50,000 scale.

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

± 4.5% of calibration solution if reading is ≥ 300 µmhos/cm on 500 scale; ≥ 3000 µmhos/cm on 5000 scale; and ≥ 30,000 µmhos/cm on 50,000 scale.

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: SPC

Calibration by: DOWID Date 3/2/99

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92B036734

Probe Manufacturer: YSI Model: 3520

Serial Number: 94B79013

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1,000 µs/cm Solution Expiration Date: 8/99

FIELD CALIBRATION

Time: 1315 Temperature of Solution: 24.0 °C

Temperature Compensated Solution Conductivity (µ S/cm)* 981

Instrument Response to Calibration Solution: 975

Instrument Response within Instrument and Probe Limits of Error: ** Yes: X No: ____

Time: 1645 Temperature of Solution: 27.7

Temperature Compensated Solution Conductivity (µ S/cm)* 1040

Instrument Response to Calibration Solution: 1052

Instrument Response within Instrument and Probe Limits of Error: ** Yes: X 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) $(A + BT + CT^2)$

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 µmhos/cm on 500 scale; ≤1500 µmhos/cm on 5000 scale; or ≤15,000 µmhos/cm on 50,000 scale.

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

± 4.5% of calibration solution if reading is ≥ 300 µmhos/cm on 500 scale; ≥ 3000 µmhos/cm on 5000 scale; and ≥ 30,000 µmhos/cm on 50,000 scale.

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JRC

Calibration by: D. DIRKIN Date 3/3/99

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92B036 74

Probe Manufacturer: YSI Model: 3520

Serial Number: 94B79013

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1,000 µS/cm Solution Expiration Date: 9/99

FIELD CALIBRATION

Time: 0650 Temperature of Solution: 6.2

Temperature Compensated Solution Conductivity (µ S/cm)* 656

Instrument Response to Calibration Solution: 656

Instrument Response within Instrument and Probe Limits of Error: ** Yes: X No: _____

Time: 1130 Temperature of Solution: 16.1

Temperature Compensated Solution Conductivity (µ S/cm)* 830

Instrument Response to Calibration Solution: 850

Instrument Response within Instrument and Probe Limits of Error: ** Yes: X 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) $(A + BT + CT^2)$

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 µmhos/cm on 500 scale; ≤1500 µmhos/cm on 5000 scale; or ≤15,000 µmhos/cm on 50,000 scale.

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

± 4.5% of calibration solution if reading is ≥ 300 µmhos/cm on 500 scale; ≥ 3000 µmhos/cm on 5000 scale; and ≥ 30,000 µmhos/cm on 50,000 scale.

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: D. Dirkin Date 3/4/99

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92803674

Probe Manufacturer: YSI Model: 3526

Serial Number: 94379013

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1000 µs/cm Solution Expiration Date: 8/99

FIELD CALIBRATION

Time: 805 Temperature of Solution: 11.2

Temperature Compensated Solution Conductivity (µ S/cm)* ~~1413~~ 739

Instrument Response to Calibration Solution: 737

Instrument Response within Instrument and Probe Limits of Error: ** Yes: ✓ No: _____

Time: 1415 Temperature of Solution: 24.6

Temperature Compensated Solution Conductivity (µ S/cm)* 992

Instrument Response to Calibration Solution: 994

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) $(A + BT + CT^2)$

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 µmhos/cm on 500 scale; ≤1500 µmhos/cm on 5000 scale; or ≤15,000 µmhos/cm on 50,000 scale.

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

± 4.5% of calibration solution if reading is ≥ 300 µmhos/cm on 500 scale; ≥ 3000 µmhos/cm on 5000 scale; and ≥ 30,000 µmhos/cm on 50,000 scale.

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: D. Dirkin Date 3/5/99

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92B03674

Probe Manufacturer: YSI Model: 3520

Serial Number: 94B79013

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1,000 µS/cm Solution Expiration Date: 8/99

FIELD CALIBRATION

Time: 0710 Temperature of Solution: 6.4

Temperature Compensated Solution Conductivity (µ S/cm)* 653

Instrument Response to Calibration Solution: 654

Instrument Response within Instrument and Probe Limits of Error: ** Yes: X No: ____

Time: 1735 Temperature of Solution: 16.4

Temperature Compensated Solution Conductivity (µ S/cm)* 836

Instrument Response to Calibration Solution: 840

Instrument Response within Instrument and Probe Limits of Error: ** Yes: X 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) $(A + BT + CT^2)$

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 µmhos/cm on 500 scale; ≤1500 µmhos/cm on 5000 scale; or ≤15,000 µmhos/cm on 50,000 scale.

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

± 4.5% of calibration solution if reading is ≥ 300 µmhos/cm on 500 scale; ≥ 3000 µmhos/cm on 5000 scale; and ≥ 30,000 µmhos/cm on 50,000 scale.

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: Bob Feldpausch Date 3/8/99

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92B03673

Probe Manufacturer: YSI Model: 3520

Serial Number: 94B79013

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1,000 Solution Expiration Date: 8/99

FIELD CALIBRATION

Time: 0910 Temperature of Solution: 9.9

Temperature Compensated Solution Conductivity (µ S/cm)* 716

Instrument Response to Calibration Solution: 722

Instrument Response within Instrument and Probe Limits of Error: ** Yes: ✓ No: _____

Time: 1506 Temperature of Solution: ~~16.0~~ 12.1

Temperature Compensated Solution Conductivity (µ S/cm)* ~~716~~ 756

Instrument Response to Calibration Solution: ~~722~~ 762

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) $(A + BT + CT^2)$

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 µmhos/cm on 500 scale; ≤1500 µmhos/cm on 5000 scale; or ≤15,000 µmhos/cm on 50,000 scale.

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

± 4.5% of calibration solution if reading is ≥ 300 µmhos/cm on 500 scale; ≥ 3000 µmhos/cm on 5000 scale; and ≥ 30,000 µmhos/cm on 50,000 scale.

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: Bob Feldhausen Date 3/9/99

Instrument Manufacturer: YSI Inc Model: 3500

Serial Number: 92B03673

Probe Manufacturer: YSI Inc Model: 3520

Serial Number: 94B79013

Calibration Solution Manufacturer: YSI Inc

Solution Conductivity: 1,000 Solution Expiration Date: 8/99

FIELD CALIBRATION

Time: 0810 Temperature of Solution: 13

Temperature Compensated Solution Conductivity (µ S/cm)* 671

Instrument Response to Calibration Solution: 674

Instrument Response within Instrument and Probe Limits of Error: ** Yes: ✓ No: _____

Time: 1500 Temperature of Solution: 13.8

Temperature Compensated Solution Conductivity (µ S/cm)* 787

Instrument Response to Calibration Solution: 793

Instrument Response within Instrument and Probe Limits of Error: ** Yes: X 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) $(A + BT + CT^2)$

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 µmhos/cm on 500 scale; ≤1500 µmhos/cm on 5000 scale; or ≤15,000 µmhos/cm on 50,000 scale.

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

± 4.5% of calibration solution if reading is ≥ 300 µmhos/cm on 500 scale; ≥ 3000 µmhos/cm on 5000 scale; and ≥ 30,000 µmhos/cm on 50,000 scale.

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: TPL

Calibration by: D. DIRKIN Date 3-10-99

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92803679

Probe Manufacturer: YSI Model: 3520

Serial Number: 94B79013

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1,000 ms/cm Solution Expiration Date: 8/99

FIELD CALIBRATION

Time: 0830 Temperature of Solution: 10.6

Temperature Compensated Solution Conductivity (µ S/cm)* 729

Instrument Response to Calibration Solution: 732

Instrument Response within Instrument and Probe Limits of Error: ** Yes: X No: _____

Time: 1435 Temperature of Solution: 15.8

Temperature Compensated Solution Conductivity (µ S/cm)* 825

Instrument Response to Calibration Solution: 830

Instrument Response within Instrument and Probe Limits of Error: ** Yes: X 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) $(A + BT + CT^2)$

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 µmhos/cm on 500 scale; ≤1500 µmhos/cm on 5000 scale; or ≤15,000 µmhos/cm on 50,000 scale.

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

± 4.5% of calibration solution if reading is ≥ 300 µmhos/cm on 500 scale; ≥ 3000 µmhos/cm on 5000 scale; and ≥ 30,000 µmhos/cm on 50,000 scale.

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: Bob Feldgus & L Date 3/11/99

Instrument Manufacturer: YSI, Inc. Model: 3500

Serial Number: 92 B036734

Probe Manufacturer: YSI, Inc. Model: 3520

Serial Number: 98C0631

Calibration Solution Manufacturer: YSI, Inc.

Solution Conductivity: 1,000 Solution Expiration Date: 8/99

FIELD CALIBRATION

Time: 830 Temperature of Solution: 8.5

Temperature Compensated Solution Conductivity (µ S/cm)* 690

Instrument Response to Calibration Solution: 706

Instrument Response within Instrument and Probe Limits of Error: ** Yes: ✓ No: _____

Time: 1345 Temperature of Solution: 12.2

Temperature Compensated Solution Conductivity (µ S/cm)* _____

Instrument Response to Calibration Solution: 790

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) $(A + BT + CT^2)$

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 µmhos/cm on 500 scale; ≤1500 µmhos/cm on 5000 scale; or ≤15,000 µmhos/cm on 50,000 scale.

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

± 4.5% of calibration solution if reading is ≥ 300 µmhos/cm on 500 scale; ≥ 3000 µmhos/cm on 5000 scale; and ≥ 30,000 µmhos/cm on 50,000 scale.

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: Bob Feldmeth Date 3/12/99

Instrument Manufacturer: YSI, Inc. Model: 3500

Serial Number: 92B0367134

Probe Manufacturer: YSI, Inc. Model: 3520

Serial Number: 98C0631

Calibration Solution Manufacturer: YSI, Inc

Solution Conductivity: 1.00 Solution Expiration Date: 8/99

FIELD CALIBRATION

Time: 0815 Temperature of Solution: 4.5

Temperature Compensated Solution Conductivity (µ S/cm)* 619

Instrument Response to Calibration Solution: 640

Instrument Response within Instrument and Probe Limits of Error: ** Yes: ✓ No: ____

Time: 1145 Temperature of Solution: 12.7

Temperature Compensated Solution Conductivity (µ S/cm)* 767

Instrument Response to Calibration Solution: 795

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) $(A + BT + CT^2)$

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 µmhos/cm on 500 scale; ≤1500 µmhos/cm on 5000 scale; or ≤15,000 µmhos/cm on 50,000 scale.

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

± 4.5% of calibration solution if reading is ≥ 300 µmhos/cm on 500 scale; ≥ 3000 µmhos/cm on 5000 scale; and ≥ 30,000 µmhos/cm on 50,000 scale.

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: J. BRENNER Date 3/15/95

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92B036734

Probe Manufacturer: YSI Model: 3520

Serial Number: 95C0631

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1,000 µS/cm Solution Expiration Date: 08/95

FIELD CALIBRATION

Time: 1015 Temperature of Solution: 9.5

Temperature Compensated Solution Conductivity (µ S/cm)* 709

Instrument Response to Calibration Solution: 737

Instrument Response within Instrument and Probe Limits of Error: ** Yes: ✓ No: ____

Time: 1430 Temperature of Solution: 13.4

Temperature Compensated Solution Conductivity (µ S/cm)* 780

Instrument Response to Calibration Solution: 793

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) $(A + BT + CT^2)$

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 µmhos/cm on 500 scale; ≤1500 µmhos/cm on 5000 scale; or ≤15,000 µmhos/cm on 50,000 scale.

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

± 4.5% of calibration solution if reading is ≥ 300 µmhos/cm on 500 scale; ≥ 3000 µmhos/cm on 5000 scale; and ≥ 30,000 µmhos/cm on 50,000 scale.

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: J. BRENNER Date 3/16/99

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92B0367J4

Probe Manufacturer: YSI Model: 3520

Serial Number: 98C0631

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1,000 µS/cm Solution Expiration Date: 8/99

FIELD CALIBRATION

Time: 0810 Temperature of Solution: 5.7

Temperature Compensated Solution Conductivity (µ S/cm)* 641

Instrument Response to Calibration Solution: 661

Instrument Response within Instrument and Probe Limits of Error: ** Yes: ✓ No: _____

Time: 1345 Temperature of Solution: 15.3

Temperature Compensated Solution Conductivity (µ S/cm)* 815

Instrument Response to Calibration Solution: 845

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) $(A + BT + CT^2)$

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 µmhos/cm on 500 scale; ≤1500 µmhos/cm on 5000 scale; or ≤15,000 µmhos/cm on 50,000 scale.

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

± 4.5% of calibration solution if reading is ≥ 300 µmhos/cm on 500 scale; ≥ 3000 µmhos/cm on 5000 scale; and ≥ 30,000 µmhos/cm on 50,000 scale.

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: J. BRENNER Date 3/17/99

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92B036734

Probe Manufacturer: YSI Model: 3520

Serial Number: 95C0631

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1,000 µS/cm Solution Expiration Date: 9/99

FIELD CALIBRATION

Time: 0530 Temperature of Solution: 9.6

Temperature Compensated Solution Conductivity (µ S/cm)* 711

Instrument Response to Calibration Solution: 731

Instrument Response within Instrument and Probe Limits of Error: ** Yes: ✓ No: _____

Time: 1700 Temperature of Solution: 15.0

Temperature Compensated Solution Conductivity (µ S/cm)* 810

Instrument Response to Calibration Solution: 823

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) $(A + BT + CT^2)$

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 µmhos/cm on 500 scale; ≤1500 µmhos/cm on 5000 scale; or ≤15,000 µmhos/cm on 50,000 scale.

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

± 4.5% of calibration solution if reading is ≥ 300 µmhos/cm on 500 scale; ≥ 3000 µmhos/cm on 5000 scale; and ≥ 30,000 µmhos/cm on 50,000 scale.

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: D. DIRKIN Date 3-18-99

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92803674

Probe Manufacturer: YSI Model: 3520

Serial Number: 98C063

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1,000 ms/cm Solution Expiration Date: 10/99

FIELD CALIBRATION

Time: 0725 Temperature of Solution: 9.4

Temperature Compensated Solution Conductivity (µ S/cm)* 707

Instrument Response to Calibration Solution: 727

Instrument Response within Instrument and Probe Limits of Error: ** Yes: ✓ No: _____

Time: 1455 Temperature of Solution: ~~25.1~~ 26.3

Temperature Compensated Solution Conductivity (µ S/cm)* 1,098

Instrument Response to Calibration Solution: 1,043

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) $(A + BT + CT^2)$

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 µmhos/cm on 500 scale; ≤1500 µmhos/cm on 5000 scale; or ≤15,000 µmhos/cm on 50,000 scale.

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

± 4.5% of calibration solution if reading is ≥ 300 µmhos/cm on 500 scale; ≥ 3000 µmhos/cm on 5000 scale; and ≥ 30,000 µmhos/cm on 50,000 scale.

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: J. BRENNER Date 3/19/99

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92B03674

Probe Manufacturer: YSI Model: 3520

Serial Number: 98C0631

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1,000 µS/cm Solution Expiration Date: 8/99

FIELD CALIBRATION

Time: 1000 Temperature of Solution: 10.9

Temperature Compensated Solution Conductivity (µ S/cm)* 734

Instrument Response to Calibration Solution: 712

Instrument Response within Instrument and Probe Limits of Error: ** Yes: ✓ No: ____

Time: 17.45 Temperature of Solution: 23.6

Temperature Compensated Solution Conductivity (µ S/cm)* 973

Instrument Response to Calibration Solution: 934

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) $(A + BT + CT^2)$

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 µmhos/cm on 500 scale; ≤1500 µmhos/cm on 5000 scale; or ≤15,000 µmhos/cm on 50,000 scale.

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

± 4.5% of calibration solution if reading is ≥ 300 µmhos/cm on 500 scale; ≥ 3000 µmhos/cm on 5000 scale; and ≥ 30,000 µmhos/cm on 50,000 scale.

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: J. BRAINER Date 3/22/99

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92B036734

Probe Manufacturer: YSI Model: 3520

Serial Number: 98C0631

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1,000 µS/cm Solution Expiration Date: 8/99

FIELD CALIBRATION

Time: 0900 Temperature of Solution: 11.5

Temperature Compensated Solution Conductivity (µ S/cm)* 745

Instrument Response to Calibration Solution: 781

Instrument Response within Instrument and Probe Limits of Error: ** Yes: ✓ No: _____

Time: 1455 Temperature of Solution: 21.8

Temperature Compensated Solution Conductivity (µ S/cm)* 938

Instrument Response to Calibration Solution: 906

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) $(A + BT + CT^2)$

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 µmhos/cm on 500 scale; ≤1500 µmhos/cm on 5000 scale; or ≤15,000 µmhos/cm on 50,000 scale.

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

± 4.5% of calibration solution if reading is ≥ 300 µmhos/cm on 500 scale; ≥ 3000 µmhos/cm on 5000 scale; and ≥ 30,000 µmhos/cm on 50,000 scale.

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: T. Turpin-Keasler Date 3/23/99

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92B03673

Probe Manufacturer: YSI Model: 3520

Serial Number: 98C08031

Calibration Solution Manufacturer: YSI

Solution Conductivity: [illegible] uS/cm Solution Expiration Date: 8/99

FIELD CALIBRATION

Time: 0715 Temperature of Solution: 9.7

Temperature Compensated Solution Conductivity (µ S/cm)* 712

Instrument Response to Calibration Solution: 735

Instrument Response within Instrument and Probe Limits of Error: ** Yes: ✓ No: ____

Time: 1145 Temperature of Solution: 22.4

Temperature Compensated Solution Conductivity (µ S/cm)* 950

Instrument Response to Calibration Solution: 914

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) $(A + BT + CT^2)$

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 µmhos/cm on 500 scale; ≤1500 µmhos/cm on 5000 scale; or ≤15,000 µmhos/cm on 50,000 scale.

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

± 4.5% of calibration solution if reading is ≥ 300 µmhos/cm on 500 scale; ≥ 3000 µmhos/cm on 5000 scale; and ≥ 30,000 µmhos/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	52867	MW-991-079	20	3/23/99
MW-3-1	52303	MW-991-078	6	3/3/99
MW-3-2	52303	MW-991-077	6	3/3/99
MW-3-3	52303	MW-991-076	6	3/3/99
MW-3-4	52286	MW-991-075	5	3/2/99
MW-3-5	52286	MW-991-074	5	3/2/99
MW-4-1	52431	MW-991-073	9	3/8/99
MW-4-2	52729	MW-991-072	16	3/17/99
MW-4-2 Dup	52729	MW-991-071	16	3/17/99
MW-4-3	52431	MW-991-070	9	3/8/99
MW-4-4	52431	MW-991-069	9	3/8/99
MW-4-5	52431	MW-991-068	9	3/8/99
MW-5	52845	MW-991-067	19	3/22/99
MW-6	52845	MW-991-066	19	3/22/99
MW-7	52812	MW-991-065	18	3/19/99
MW-8	52867	MW-991-064	20	3/23/99
MW-9	52867	MW-991-063	20	3/23/99
MW-10	52845	MW-991-062	19	3/22/99
MW-10 Dup	52845	MW-991-061	19	3/22/99
MW-11-1	52399	MW-991-060	8	3/5/99
MW-11-2	52399	MW-991-059	8	3/5/99
MW-11-3	52399	MW-991-058	8	3/5/99
MW-11-4	52399	MW-991-057	8	3/5/99
MW-11-5	52399	MW-991-056	8	3/5/99
MW-12-1	52247	MW-991-055	4	3/1/99
MW-12-2	52247	MW-991-054	4	3/1/99
MW-12-2 Dup	52247	MW-991-053	4	3/1/99
MW-12-3	52247	MW-991-052	4	3/1/99
MW-12-4	52247	MW-991-051	4	3/1/99
MW-12-5	52247	MW-991-050	4	3/1/99
MW-13	52812	MW-991-049	18	3/19/99
MW-13 Dup	52812	MW-991-048	18	3/19/99
MW-14-1	52351	MW-991-047	7	3/4/99
MW-14-2	52351	MW-991-046	7	3/4/99
MW-14-3	52351	MW-991-045	7	3/4/99
MW-14-4	52351	MW-991-044	7	3/4/99
MW-14-5	52351	MW-991-043	7	3/4/99
MW-15	52867	MW-991-042	20	3/23/99
MW-16	52812	MW-991-041	18	3/19/99
MW-17-1	52507/52757	MW-991-040	11/17	3/10 - 3/18/99
MW-17-2	52507	MW-991-039	11	3/10/99
MW-17-3	52757	MW-991-038	17	3/18/99
MW-17-4	52507	MW-991-037	11	3/10/99
MW-17-5	52618	MW-991-036	14	3/15/99

ANALYTICAL RESULTS INDEX

GROUNDWATER SAMPLES

Well Number	Report Number	Sample Number	Tab Number	Date Sampled
MW-18-1	52128	MW-991-035	1	2/24/99
MW-18-2	52128	MW-991-034	1	2/24/99
MW-18-3	52128	MW-991-033	1	2/24/99
MW-18-4	52128	MW-991-032	1	2/24/99
MW-18-5	52128	MW-991-031	1	2/24/99
MW-19-1	52208	MW-991-030	3	2/26/99
MW-19-2	52208	MW-991-029	3	2/26/99
MW-19-3	52208	MW-991-028	3	2/26/99
MW-19-4	52208	MW-991-027	3	2/26/99
MW-19-5	52208	MW-991-026	3	2/26/99
MW-20-1	52176	MW-991-025	2	2/25/99
MW-20-2	52176	MW-991-024	2	2/25/99
MW-20-3	52176	MW-991-023	2	2/25/99
MW-20-4	52176	MW-991-022	2	2/25/99
MW-20-5	52176	MW-991-021	2	2/25/99
MW-21-1	52654	MW-991-020	15	3/16/99
MW-21-2	52654	MW-991-019	15	3/16/99
MW-21-3	52654	MW-991-018	15	3/16/99
MW-21-4	52654	MW-991-017	15	3/16/99
MW-21-5	52654	MW-991-016	15	3/16/99
MW-22-1	52447	MW-991-015	10	3/9/99
MW-22-2	52447	MW-991-014	10	3/9/99
MW-22-3	52447	MW-991-013	10	3/9/99
MW-22-4	52447	MW-991-012	10	3/9/99
MW-22-5	52447	MW-991-011	10	3/9/99
MW-23-1	52526	MW-991-010	12	3/11/99
MW-23-2	52526	MW-991-009	12	3/11/99
MW-23-3	52526	MW-991-008	12	3/11/99
MW-23-4	52526	MW-991-007	12	3/11/99
MW-23-5	52526	MW-991-006	12	3/11/99
MW-24-1	52729	MW-991-005	16	3/17/99
MW-24-2	52729	MW-991-004	16	3/17/99
MW-24-3	52757	MW-991-003	17	3/18/99
MW-24-4	52568	MW-991-002	13	3/12/99
MW-24-5	52568	MW-991-001	13	3/12/99

ANALYTICAL RESULTS INDEX

QA/QC SAMPLE BLANKS

Sample Type	Report Number	Sample Number	Tab Number	Date Sampled
TB	52128	MW-991-80	1	2/24/99
EB	52128	MW-991-81	1	2/24/99
TB	52176	MW-991-82	2	2/25/99
EB	52176	MW-991-83	2	2/25/99
TB	52208	MW-991-84	3	2/26/99
EB	52208	MW-991-85	3	2/26/99
TB	52247	MW-991-86	4	3/1/99
EB	52247	MW-991-87	4	3/1/99
EB	52286	MW-991-88	5	3/2/99
TB	52286	MW-991-89	5	3/2/99
TB	52303	MW-991-90	6	3/3/99
EB	52303	MW-991-91	6	3/3/99
TB	52351	MW-991-92	7	3/4/99
EB	52351	MW-991-93	7	3/4/99
TB	52399	MW-991-94	8	3/5/99
EB	52399	MW-991-95	8	3/5/99
TB	52431	MW-991-96	9	3/8/99
EB	52431	MW-991-97	9	3/8/99
TB	52447	MW-991-98	10	3/9/99
EB	52447	MW-991-99	10	3/9/99
TB	52507	MW-991-100	11	3/10/99
EB	52507	MW-991-101	11	3/10/99
TB	52526	MW-991-102	12	3/11/99
EB	52526	MW-991-103	12	3/11/99
TB	52568	MW-991-105	13	3/12/99
EB	52568	MW-991-106	13	3/12/99
EB	52618	MW-991-107	14	3/15/99
TB	52618	MW-991-108	14	3/15/99
EB	52654	MW-991-109	15	3/16/99
TB	52654	MW-991-110	15	3/16/99
EB	52729	MW-991-111	16	3/17/99
TB	52729	MW-991-112	16	3/17/99
TB	52757	MW-991-113	17	3/18/99
EB	52757	MW-991-114	17	3/18/99
TB	52812	MW-991-115	18	3/19/99
TB	52845	MW-991-116	19	3/22/99
TB	52867	MW-991-117	20	3/23/99
FB	52812	MW-991-200	18	3/19/99

ANALYTICAL RESULTS INDEX

1,4 DIOXANE & NDMA RESULTS

Well Number	Report Number	Sample Number	Tab Number	Date Sampled
MW-4-2	52730	MW-991-072	23	3/17/99
MW-7	52813	MW-991-065	21	3/19/99
MW-13	52813	MW-991-049	21	3/19/99
MW-16	52813	MW-991-041	21	3/19/99
MW-17-3	52758	MW-991-038	22	3/18/99
MW-24-1	52730	MW-991-005	23	3/17/99

MONTGOMERY WATSON LABORATORIES

March 19, 1999

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

Attention: Mark Cutler

Re: Report # 52128(MW-991-080, -081, -031, -032, -033, -034, -035)

Dear Mark,

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

Non-conformance (LCS, MS/MSD, Surrogates, and Holding Times):
None
Samples requiring dilution (with increased MRL's):
None
Method blanks with compounds detected:
None
Other Comments:
Bromodichloromethane was detected in sample ID: MW-991-034
Carbon Tetrachloride was detected in sample ID: MW-991-032
Chloroform was detected in sample ID: MW-991-032, -033, -034
Tetrachloroethylene was detected in sample ID: MW-991-032, -033
Trichloroethylene was detected in sample ID: MW-991-032, -033
Lead was detected in sample ID: MW-991-034
Hexavalent Chrome was detected in sample ID: MW-991-033
Perchlorate is reported as ND for sample ID: MW-991-032
TICS:
None
Method Variance:
None

Sincerely,

Debbie Frank
Project Manager

cc: Judy Novelly (JPL)

a Division of Montgomery Watson Americas, Inc.

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

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

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#007618-0005
Group#: 52128
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

The following samples were received from you on 02/24/99. 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	Matrix / Tests Scheduled					Sample Date
990224199	MW-991-080		Water				02/24/99
		@EBASVOA					
990224200	MW-991-081		Water				02/24/99
		@EBASVOA	CR-VI	PB-EBAS	CR-EBAS	AS-EBAS	
		CLO4					
990224201	MW-991-031		Water				02/24/99
		@EBASVOA	CR-VI	PB-EBAS	CR-EBAS	AS-EBAS	
		TDS	CATION1	ANION1	PH	EC	HCO3
		CO3	ALK	NO3	SO4	CL	FE-MS
		K	NA	MG	CA	CLO4	
990224202	MW-991-032		Water				02/24/99
		@EBASVOA	CR-VI	PB-EBAS	CR-EBAS	AS-EBAS	
		TDS	CATION1	ANION1	PH	EC	HCO3
		CO3	ALK	NO3	SO4	CL	FE-MS
		K	NA	MG	CA	CLO4	
990224203	MW-991-033		Water				02/24/99
		@EBASVOA	CLO4	CA	MG	NA	
		K	FE-MS	CL	SO4	NO3	ALK
		CO3	HCO3	EC	PH	ANION1	CATIO
		TDS	AS-EBAS	CR-EBAS	PB-EBAS	CR-VI	
990224204	MW-991-034		Water				02/24/99
		@EBASVOA	CLO4	CA	MG	NA	
		K	FE-MS	CL	SO4	NO3	ALK
		CO3	HCO3	EC	PH	ANION1	CATIO
		TDS	AS-EBAS	CR-EBAS	PB-EBAS	CR-VI	
990224205	MW-991-035		Water				02/24/99
		@EBASVOA	CLO4	CA	MG	NA	
		K	FE-MS	CL	SO4	NO3	ALK
		CO3	HCO3	EC	PH	ANION1	CATIO
		TDS	AS-EBAS	CR-EBAS	PB-EBAS	CR-VI	

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#007618-0005
Group#: 52128
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

Test Acronym Description

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

NUMBER 1200

52128

TEMP = 3 – 10
BE – REG, STILL OKAY
ICE

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

PROJECT: JPL

OFS NO. 1572.0268

PROJECT ADDRESS: 4800 OAK GROVE DR. PASADENA CA

SAMPLER (Name): J. BRENNER

SAMPLER (Signature): J. B[signature]

LABORATORY: MONTGOMERY / WATSON

REPORTS TO BE SENT TO: MR MARK CUTLER

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

TIME REQUIRED: NORMAL ☒ ____ DAYS RUSH ☐ ____ DAYS

[redacted]

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL: WATER	SOIL	OTHER (Describe)	VOCs (524.2)	TOTAL ... (ICP)	[illegible]	Hex Cr	Perchlorate	MS [illegible] VOCs	MSD VOCs	MS/MSD Metals	[illegible]	
MW 991-030	0900	2/24/99	2	2x40ml	X			X									
MW-991-031	1130	↓	5	2x40ml 2x125ml 1x250ml	X			X	X		X	X					
MW-991-031	1030		6	2x40ml 1x500ml 1x250ml 2x125ml	X			X	X	X	X	X					
MW-991-032	1210		7	2x40ml 1x500ml 2x250ml 2x125ml	X			X	X	X	X	X			X		
MW 991 032MS	1210		2	2x40ml	X								X				
MW 991 032MSD	1210		2	2x40ml	X									X			
MW-991-033	1330		6	2x40ml 1x250ml 2x125ml 1x500ml	X			X	X	X	X	X					
MW 991 034	1425		6		X			X	X	X	X	X				X	
MW 991 035	1515	↓	6	↓	X			X	X	X	X	X					

LABORATORY INSTRUCTIONS/COMMENTS

Level IV QA/QC

RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)	RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)
[signature]	2/24/99	M. DE [illegible]			
COMPANY: FWENC	TIME: 16:30	COMPANY: M.W.	COMPANY:	TIME:	COMPANY:

F-2

SHIPPING COPY

MONTGOMERY LABORATORIES COOLER RECEIPT FORM

PROJECT: ENSERCH Date Received: 2-24-99

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: 2-24-99

by (print) M. DE MESA (sign) _____

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: 4 lid to body SEE BACK
   If Yes, enter the following: seal date: 2/24/99, seal name: Jeff Boerner

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) 2-24-99

B. LOG-IN PHASE: Date samples were logged-in: 2-24-99 by:
   (print) M. DE MESA (sign) _____

9. Describe packing:

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

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

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

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

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

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

16. Were correct preservatives used when required? (Yes) No

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

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

19. Was Client Services informed of problems? NA Yes No no problems

Report Summary of positive results, PR52128

			Result	MDL	UNITS
lyzed	990224199	MW-991-080			
Analyzed	990224200	MW-991-081			
Analyzed	990224201	MW-991-031			
03/02/99	Alkalinity		145	2.000	MGL
03/05/99	Anion Sum		3.38	.001	MEQL
03/05/99	Bicarbonate as HCO3,calculated		176	.001	MGL
03/08/99	Calcium, Total, ICAP		13.3	1.000	MGL
03/05/99	Carbonate as CO3, Calculated		1.81	.001	MGL
03/12/99	Cation Sum		3.27	.001	MEQL
02/25/99	Chloride		12	1.000	MGL
03/05/99	Iron, Total, ICAP/MS		165	******	UGL
02/26/99	Lab pH		8.2	.001	UNIT
03/08/99	Magnesium, Total, ICAP		5.17	1.000	MGL
02/25/99	Nitrate-N by IC		0.31	.100	MGL
03/08/99	Potassium, Total, ICAP		1.52	1.000	MGL
03/08/99	Sodium, Total, ICAP		49.3	1.000	MGL
02/25/99	Specific Conductance		330	4.000	UMHO
02/25/99	Sulfate		5.5	2.000	MGL
02/26/99	Total Dissolved Solid (TDS)		210	10.000	MGL
alyzed	990224202	MW-991-032			
03/02/99	Carbon Tetrachloride		4.7	.500	UGL
03/02/99	Chloroform (Trichloromethane)		1.1	.500	UGL
03/02/99	Tetrachloroethylene (PCE)		2.3	.500	UGL
03/02/99	Trichloroethylene (TCE)		1.2	.500	UGL
03/02/99	Alkalinity		147	2.000	MGL
03/05/99	Anion Sum		3.85	.001	MEQL
03/05/99	Bicarbonate as HCO3,calculated		178	.001	MGL
03/08/99	Calcium, Total, ICAP		29.4	1.000	MGL
03/05/99	Carbonate as CO3, Calculated		2.91	.001	MGL
03/12/99	Cation Sum		3.82	.001	MEQL
02/25/99	Chloride		11	1.000	MGL
03/05/99	Iron, Total, ICAP/MS		170	******	UGL
02/26/99	Lab pH		8.4	.001	UNIT
03/08/99	Magnesium, Total, ICAP		11.2	1.000	MGL
02/25/99	Nitrate-N by IC		0.84	.100	MGL
03/10/99	Perchlorate		24	4.000	UGL
03/08/99	Potassium, Total, ICAP		1.38	1.000	MGL
03/08/99	Sodium, Total, ICAP		32.0	1.000	MGL
02/25/99	Specific Conductance		370	4.000	UMHO
02/25/99	Sulfate		26	2.000	MGL
02/26/99	Total Dissolved Solid (TDS)		220	10.000	MGL
Analyzed	990224203	MW-991-033			
/02/99	Chloroform (Trichloromethane)		3.5	.500	UGL
03/02/99	Tetrachloroethylene (PCE)		0.5	.500	UGL
03/02/99	Trichloroethylene (TCE)		1.0	.500	UGL
03/02/99	Alkalinity		200	2.000	MGL
03/05/99	Anion Sum		5.27	.001	MEQL

03/05/99	Bicarbonate as HCO3,calculated	243	.001	MGL
03/08/99	Calcium, Total, ICAP	57.8	1.000	MGL
03/05/99	Carbonate as CO3, Calculated	1.58	.001	MGL
03/12/99	Cation Sum	5.27	.001	MEQL
02/25/99	Chloride	13	1.000	MG
02/25/99	Hexavalent chromium (Cr VI)	0.0069	.005	MG
02/26/99	Lab pH	8.0	.001	UNIT
03/08/99	Magnesium, Total, ICAP	17.4	1.000	MGL
02/25/99	Nitrate-N by IC	1.0	.100	MGL
03/08/99	Potassium, Total, ICAP	2.68	1.000	MGL
03/08/99	Sodium, Total, ICAP	20.3	1.000	MGL
02/25/99	Specific Conductance	505	4.000	UMHO
02/25/99	Sulfate	40	2.000	MGL
02/26/99	Total Dissolved Solid (TDS)	320	10.000	MGL
Analyzed	990224204 MW-991-034			
03/02/99	Bromodichloromethane	0.8	.500	UGL
03/02/99	Chloroform (Trichloromethane)	3.0	.500	UGL
03/02/99	Alkalinity	175	2.000	MGL
03/05/99	Anion Sum	4.79	.001	MEQL
03/05/99	Bicarbonate as HCO3,calculated	213	.001	MGL
03/08/99	Calcium, Total, ICAP	50.0	1.000	MGL
03/05/99	Carbonate as CO3, Calculated	0.551	.001	MGL
03/12/99	Cation Sum	4.69	.001	MEQL
02/25/99	Chloride	12	1.000	MGL
03/05/99	Iron, Total, ICAP/MS	130	******	UGL
02/26/99	Lab pH	7.6	.001	UNIT
03/05/99	Lead, Total, ICAP/MS	5.3	2.000	UGL
03/08/99	Magnesium, Total, ICAP	16.2	1.000	MG
02/25/99	Nitrate-N by IC	1.3	.100	MG
03/08/99	Potassium, Total, ICAP	2.48	1.000	MGL
03/08/99	Sodium, Total, ICAP	18.3	1.000	MGL
02/25/99	Specific Conductance	460	4.000	UMHO
02/25/99	Sulfate	41	2.000	MGL
02/26/99	Total Dissolved Solid (TDS)	290	10.000	MGL
Analyzed	990224205 MW-991-035			
03/02/99	Alkalinity	146	2.000	MGL
03/05/99	Anion Sum	3.71	.001	MEQL
03/05/99	Bicarbonate as HCO3,calculated	178	.001	MGL
03/08/99	Calcium, Total, ICAP	41.0	1.000	MGL
03/05/99	Carbonate as CO3, Calculated	0.366	.001	MGL
03/12/99	Cation Sum	3.73	.001	MEQL
02/25/99	Chloride	5.5	1.000	MGL
02/26/99	Lab pH	7.5	.001	UNIT
03/08/99	Magnesium, Total, ICAP	12.8	1.000	MGL
02/25/99	Nitrate-N by IC	0.78	.100	MGL
03/08/99	Potassium, Total, ICAP	2.15	1.000	MGL
03/08/99	Sodium, Total, ICAP	13.1	1.000	MGL
02/25/99	Specific Conductance	360	4.000	UMHO
02/25/99	Sulfate	28	2.000	MGL
02/26/99	Total Dissolved Solid (TDS)	240	10.000	MGL

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

Laboratory Report

for

Foster Wheeler Environmental, Inc
611 Anton Boulevard

Suite 800

Costa Mesa , CA 92626

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

DEB* Debbie Frank

Report#: 52128
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 #52128

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

Samples Received
24-feb-1999 18:57:37

MW-991-080 (990224199) Sampled on 02/24/99

Regulated VOCs plus Lists 1&3

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
03/02/99	93005		(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
03/02/99	93005		(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
03/02/99	93005		(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
03/02/99	93005		(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
03/02/99	93005		(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
03/02/99	93005		(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
03/02/99	93005		(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
03/02/99	93005		(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
03/02/99	93005		(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
03/02/99	93005		(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
03/02/99	93005		(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
03/02/99	93005		(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
03/02/99	93005		(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
03/02/99	93005		(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
03/02/99	93005		(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
03/02/99	93005		(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
03/02/99	93005		(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
03/02/99	93005		(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
03/02/99	93005		(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
03/02/99	93005		(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
03/02/99	93005		(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
03/02/99	93005		(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
03/02/99	93005		(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
03/02/99	93005		(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
03/02/99	93005		(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
03/02/99	93005		(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
03/02/99	93005		(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
03/02/99	93005		(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
03/02/99	93005		(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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

Laboratory Report #52128

Foster Wheeler Environmental, Inc (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/02/99	93005	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/02/99	93005	(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	96	% Rec		
			(Surrogate)	Toluene-d8	90	% Rec		

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Laboratory Report #52128

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-991-081 (990224200) Sampled on 02/24/99								
03/05/99	03/05/99	93028	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	03/10/99	93283	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
03/04/99	03/05/99	92976	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	02/25/99	92594	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
03/04/99	03/05/99	92979	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
				Regulated VOCs plus Lists 1&3				
	03/02/99	93005	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/02/99	93005	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/02/99	93005	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/02/99	93005	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/02/99	93005	(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	98	% Rec		

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Laboratory Report #52128

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
			(Surrogate)	Toluene-d8	93	% Rec		
MW-991-031 (990224201) Sampled on 02/24/99								
	03/02/99	92808	(ML/SM2320B)	Alkalinity	145	mg/l	2.0	1
	03/05/99		(ML/SM1040)	Anion Sum	3.38	meq/l	0.0010	1
03/05/99	03/05/99	93028	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
03/08/99	03/08/99	93076	(ML/EPA 200.7)	Calcium, Total, ICAP	13.3	mg/l	1.0	1
	03/12/99		(ML/SM1040)	Cation Sum	3.27	meq/l	0.0010	1
	02/25/99	92878	(ML/EPA 300)	Chloride	12	mg/l	1.0	1
	03/10/99	93283	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	03/05/99		(ML/SM2320B)	Carbonate as CO3, Calculated	1.81	mg/l	0.0010	1
03/04/99	03/05/99	92976	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	02/25/99	92594	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	02/25/99	92580	(ML/S2510B)	Specific Conductance	330	umho/cm	4.0	1
03/04/99	03/05/99	92977	(EPA/ML 200.8)	Iron, Total, ICAP/MS	165	ug/l	100	1
	03/05/99		(ML/SM2320B)	Bicarbonate as HCO3,calculated	176	mg/l	0.0010	1
03/08/99	03/08/99	93080	(ML/EPA 200.7)	Potassium, Total, ICAP	1.52	mg/l	1.0	1
03/08/99	03/08/99	93083	(ML/EPA 200.7)	Magnesium, Total, ICAP	5.17	mg/l	1.0	1
03/08/99	03/08/99	93086	(ML/EPA 200.7)	Sodium, Total, ICAP	49.3	mg/l	1.0	1
	02/25/99	92880	(ML/EPA 300.0)	Nitrate-N by IC	0.31	mg/l	0.10	1
03/04/99	03/05/99	92979	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	02/26/99	92680	(ML/SM4500H-B)	Lab pH	8.2	Units	0.0010	1
	02/25/99	92882	(ML/EPA 300.0)	Sulfate	5.5	mg/l	2.0	1
	02/26/99	92777	(ML/S2540C)	Total Dissolved Solid (TDS)	210	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	03/02/99	93005	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/02/99	93005	(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	MDL	Dilution
	03/02/99	93005	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/02/99	93005	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/02/99	93005	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/02/99	93005	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	110	% Rec		
			(Surrogate)	4-Bromofluorobenzene	93	% Rec		
			(Surrogate)	Toluene-d8	95	% Rec		
MW-991-032 (990224202) Sampled on 02/24/99								
	03/02/99	92808	(ML/SM2320B)	Alkalinity	147	mg/l	2.0	1
	03/05/99		(ML/SM1040)	Anion Sum	3.85	meq/l	0.0010	1
03/05/99	03/05/99	93028	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
03/08/99	03/08/99	93076	(ML/EPA 200.7)	Calcium, Total, ICAP	29.4	mg/l	1.0	1
	03/12/99		(ML/SM1040)	Cation Sum	3.82	meq/l	0.0010	1
	02/25/99	92878	(ML/EPA 300)	Chloride	11	mg/l	1.0	1
	03/10/99	93283	(MOD/EPA 300)	Perchlorate	24	ug/l	4.0	1
	03/05/99		(ML/SM2320B)	Carbonate as CO3, Calculated	2.91	mg/l	0.0010	1
03/04/99	03/05/99	92976	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	02/25/99	92594	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	02/25/99	92580	(ML/S2510B)	Specific Conductance	370	umho/cm	4.0	1
03/04/99	03/05/99	92977	(EPA/ML 200.8)	Iron, Total, ICAP/MS	170	ug/l	100	1
	03/05/99		(ML/SM2320B)	Bicarbonate as HCO3,calculated	178	mg/l	0.0010	1
03/08/99	03/08/99	93080	(ML/EPA 200.7)	Potassium, Total, ICAP	1.38	mg/l	1.0	1
03/08/99	03/08/99	93083	(ML/EPA 200.7)	Magnesium, Total, ICAP	11.2	mg/l	1.0	1
03/08/99	03/08/99	93086	(ML/EPA 200.7)	Sodium, Total, ICAP	32.0	mg/l	1.0	1

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	02/25/99	92880	(ML/EPA 300.0)	Nitrate-N by IC	0.84	mg/l	0.10	1
03/04/99	03/05/99	92979	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	02/26/99	92680	(ML/SM4500H-B)	Lab pH	8.4	Units	0.0010	1
	02/25/99	92882	(ML/EPA 300.0)	Sulfate	26	mg/l	2.0	1
	02/26/99	92777	(ML/S2540C)	Total Dissolved Solid (TDS)	220	mg/l	10	1
				Regulated VOCs plus Lists 1&3				
	03/02/99	93005	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/02/99	93005	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/02/99	93005	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Carbon Tetrachloride	4.7	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/02/99	93005	(ML/EPA 524.2)	Chloroform (Trichloromethane)	1.1	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	2.3	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Trichloroethylene (TCE)	1.2	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	110	% Rec		
			(Surrogate)	4-Bromofluorobenzene	91	% Rec		
			(Surrogate)	Toluene-d8	91	% Rec		

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Laboratory Report #52128

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-991-033 (990224203) Sampled on 02/24/99								
	03/02/99	92808	(ML/SM2320B)	Alkalinity	200	mg/l	2.0	1
	03/05/99		(ML/SM1040)	Anion Sum	5.27	meq/l	0.0010	1
03/05/99	03/05/99	93028	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
03/08/99	03/08/99	93076	(ML/EPA 200.7)	Calcium, Total, ICAP	57.8	mg/l	1.0	1
	03/12/99		(ML/SM1040)	Cation Sum	5.27	meq/l	0.0010	1
	02/25/99	92878	(ML/EPA 300)	Chloride	13	mg/l	1.0	1
	03/10/99	93283	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	03/05/99		(ML/SM2320B)	Carbonate as CO3, Calculated	1.58	mg/l	0.0010	1
03/04/99	03/05/99	92976	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	02/25/99	92594	(ML/SW 7196)	Hexavalent chromium (Cr VI)	0.0069	mg/l	0.005	1
	02/25/99	92580	(ML/S2510B)	Specific Conductance	505	umho/cm	4.0	1
03/04/99	03/05/99	92977	(EPA/ML 200.8)	Iron, Total, ICAP/MS	ND	ug/l	100	1
	03/05/99		(ML/SM2320B)	Bicarbonate as HCO3,calculated	243	mg/l	0.0010	1
/08/99	03/08/99	93080	(ML/EPA 200.7)	Potassium, Total, ICAP	2.68	mg/l	1.0	1
03/08/99	03/08/99	93083	(ML/EPA 200.7)	Magnesium, Total, ICAP	17.4	mg/l	1.0	1
03/08/99	03/08/99	93086	(ML/EPA 200.7)	Sodium, Total, ICAP	20.3	mg/l	1.0	1
	02/25/99	92880	(ML/EPA 300.0)	Nitrate-N by IC	1.0	mg/l	0.10	1
03/04/99	03/05/99	92979	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	02/26/99	92680	(ML/SM4500H-B)	Lab pH	8.0	Units	0.0010	1
	02/25/99	92882	(ML/EPA 300.0)	Sulfate	40	mg/l	2.0	1
	02/26/99	92777	(ML/S2540C)	Total Dissolved Solid (TDS)	320	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	03/02/99	93005	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/02/99	93005	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/02/99	93005	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/02/99	93005	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Chloroform (Trichloromethane)	3.5	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/02/99	93005	(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	MDL	Dilution
	03/02/99	93005	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	0.5	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Trichloroethylene (TCE)	1.0	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/02/99	93005	(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	91	% Rec		
			(Surrogate)	Toluene-d8	93	% Rec		
MW-991-034 (990224204)			**Sampled on**	**02/24/99**				
	03/02/99	92808	(ML/SM2320B)	Alkalinity	175	mg/l	2.0	1
	03/05/99		(ML/SM1040)	Anion Sum	4.79	meq/l	0.0010	1
03/05/99	03/05/99	93028	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
03/08/99	03/08/99	93076	(ML/EPA 200.7)	Calcium, Total, ICAP	50.0	mg/l	1.0	1
	03/12/99		(ML/SM1040)	Cation Sum	4.69	meq/l	0.0010	1
	02/25/99	92878	(ML/EPA 300)	Chloride	12	mg/l	1.0	1
	03/10/99	93283	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	03/05/99		(ML/SM2320B)	Carbonate as CO3, Calculated	0.551	mg/l	0.0010	1
03/04/99	03/05/99	92976	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	02/25/99	92594	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	02/25/99	92583	(ML/S2510B)	Specific Conductance	460	umho/cm	4.0	1
03/04/99	03/05/99	92977	(EPA/ML 200.8)	Iron, Total, ICAP/MS	130	ug/l	100	1
	03/05/99		(ML/SM2320B)	Bicarbonate as HCO3,calculated	213	mg/l	0.0010	1
03/08/99	03/08/99	93080	(ML/EPA 200.7)	Potassium, Total, ICAP	2.48	mg/l	1.0	1
03/08/99	03/08/99	93083	(ML/EPA 200.7)	Magnesium, Total, ICAP	16.2	mg/l	1.0	1
03/08/99	03/08/99	93086	(ML/EPA 200.7)	Sodium, Total, ICAP	18.3	mg/l	1.0	1
	02/25/99	92880	(ML/EPA 300.0)	Nitrate-N by IC	1.3	mg/l	0.10	1

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
03/04/99	03/05/99	92979	(EPA/ML 200.8)	Lead, Total, ICAP/MS	5.3	ug/l	2.0	1
	02/26/99	92680	(ML/SM4500H-B)	Lab pH	7.6	Units	0.0010	1
	02/25/99	92882	(ML/EPA 300.0)	Sulfate	41	mg/l	2.0	1
	02/26/99	92777	(ML/S2540C)	Total Dissolved Solid (TDS)	290	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	03/02/99	93005	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/02/99	93005	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/02/99	93005	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Chloroform (Trichloromethane)	3.0	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/02/99	93005	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Bromodichloromethane	0.8	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/02/99	93005	(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	91	% Rec		
			(Surrogate)	Toluene-d8	94	% Rec		

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Laboratory Report #52128

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-991-035 (990224205) Sampled on 02/24/99								
	03/02/99	92808	(ML/SM2320B)	Alkalinity	146	mg/l	2.0	1
	03/05/99		(ML/SM1040)	Anion Sum	3.71	meq/l	0.0010	1
03/05/99	03/05/99	93028	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
03/08/99	03/08/99	93076	(ML/EPA 200.7)	Calcium, Total, ICAP	41.0	mg/l	1.0	1
	03/12/99		(ML/SM1040)	Cation Sum	3.73	meq/l	0.0010	1
	02/25/99	92878	(ML/EPA 300)	Chloride	5.5	mg/l	1.0	1
	03/10/99	93283	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	03/05/99		(ML/SM2320B)	Carbonate as CO3, Calculated	0.366	mg/l	0.0010	1
03/04/99	03/05/99	92976	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	02/25/99	92594	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	02/25/99	92583	(ML/S2510B)	Specific Conductance	360	umho/cm	4.0	1
03/04/99	03/05/99	92977	(EPA/ML 200.8)	Iron, Total, ICAP/MS	ND	ug/l	100	1
	03/05/99		(ML/SM2320B)	Bicarbonate as HCO3,calculated	178	mg/l	0.0010	1
03/08/99	03/08/99	93080	(ML/EPA 200.7)	Potassium, Total, ICAP	2.15	mg/l	1.0	1
03/08/99	03/08/99	93083	(ML/EPA 200.7)	Magnesium, Total, ICAP	12.8	mg/l	1.0	1
03/08/99	03/08/99	93086	(ML/EPA 200.7)	Sodium, Total, ICAP	13.1	mg/l	1.0	1
	02/25/99	92880	(ML/EPA 300.0)	Nitrate-N by IC	0.78	mg/l	0.10	1
03/04/99	03/05/99	92979	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	02/26/99	92680	(ML/SM4500H-B)	Lab pH	7.5	Units	0.0010	1
	02/25/99	92882	(ML/EPA 300.0)	Sulfate	28	mg/l	2.0	1
	02/26/99	92777	(ML/S2540C)	Total Dissolved Solid (TDS)	240	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	03/02/99	93005	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/02/99	93005	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/02/99	93005	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/02/99	93005	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/02/99	93005	(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	MDL	Dilution
	03/02/99	93005	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/02/99	93005	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	103	% Rec		
			(Surrogate)	4-Bromofluorobenzene	92	% Rec		
			(Surrogate)	Toluene-d8	88	% Rec		

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Laboratory
QC Report
#52128

Foster Wheeler Environmental, Inc

QC Batch #92580 Specific Conductance

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 99	0224203		(0.00 - 0.00)	

QC Batch #92583 Specific Conductance

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 99	0224205		(0.00 - 0.00)	

QC Batch #92594 Hexavalent chromium (Cr VI)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0224204		(0.00 - 0.00)	
LCS1	Hexavalent chromium (Cr VI)	0.050	0.0494	98.8	(78.00 - 118.00)	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.0488	97.6	(78.00 - 118.00)	1.2
MBLK	Hexavalent chromium (Cr VI)	ND				
MS	Hexavalent chromium (Cr VI)	0.050	0.0488	97.6	(80.00 - 120.00)	
MSD	Hexavalent chromium (Cr VI)	0.050	0.0488	97.6	(80.00 - 120.00)	0.00

QC Batch #92680 Lab pH

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	lab # 99	0225127		(0.00 - 0.00)	

QC Batch #92777 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 99	021515		(0.00 - 0.00)	
LCS1	Total Dissolved Solid (TDS)	175	170	97.1	(85.00 - 115.00)	
LCS2	Total Dissolved Solid (TDS)	700	682	97.4	(85.00 - 115.00)	
MBLK	Total Dissolved Solid (TDS)	ND				

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Foster Wheeler Environmental, Inc
(continued)

QC Batch #92808 Alkalinity

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0224205		(0.00 - 0.00)	
LCS1	Alkalinity	96.2	96.8	100.6	(90.00 - 110.00)	
LCS2	Alkalinity	96.2	97.2	101.0	(90.00 - 110.00)	0.41
MBLK	Alkalinity	ND				
MS	Alkalinity	96.2	90.0	93.6	(80.00 - 120.00)	
MSD	Alkalinity	96.2	89.0	92.5	(80.00 - 120.00)	1.1

QC Batch #92878 Chloride

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0224201		(0.00 - 0.00)	
LCS1	Chloride	25	25.3	101.2	(90.00 - 110.00)	
LCS2	Chloride	25	25.3	101.2	(90.00 - 110.00)	0.00
MBLK	Chloride	ND				
MS	Chloride	25	28.5	114.0	(80.00 - 120.00)	
MSD	Chloride	25	28.5	114.0	(80.00 - 120.00)	0.00

QC Batch #92880 Nitrate-N by IC

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0224078		(0.00 - 0.00)	
LCS1	Nitrate-N by IC	2.5	2.56	102.4	(90.00 - 110.00)	
LCS2	Nitrate-N by IC	2.5	2.55	102.0	(90.00 - 110.00)	0.39
MBLK	Nitrate-N by IC	ND				
MS	Nitrate-N by IC	2.5	2.51	100.4	(80.00 - 120.00)	
MSD	Nitrate-N by IC	2.5	2.51	100.4	(80.00 - 120.00)	0.00

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Foster Wheeler Environmental, Inc
(continued)

QC Batch #92882 Sulfate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0224078		(0.00 - 0.00)	
LCS1	Sulfate	50	50.2	100.4	(90.00 - 110.00)	
LCS2	Sulfate	50	50.3	100.6	(90.00 - 110.00)	0.20
MBLK	Sulfate	ND				
MS	Sulfate	50	53.6	107.2	(80.00 - 120.00)	
MSD	Sulfate	50	53.6	107.2	(80.00 - 120.00)	0.00

QC Batch #92976 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0224202		(0.00 - 0.00)	
LCS1	Chromium, Total, ICAP/MS	100	99	99.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	95	95.0	(85.00 - 115.00)	4.1
MBLK	Chromium, Total, ICAP/MS	ND				
MS	Chromium, Total, ICAP/MS	100	98	98.0	(70.00 - 130.00)	
MSD	Chromium, Total, ICAP/MS	100	95	95.0	(70.00 - 130.00)	3.1

QC Batch #92977 Iron, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0224202		(0.00 - 0.00)	
LCS1	Iron, Total, ICAP/MS	500	543	108.6	(85.00 - 115.00)	
LCS2	Iron, Total, ICAP/MS	500	517	103.4	(85.00 - 115.00)	4.9
MBLK	Iron, Total, ICAP/MS	ND				
MS	Iron, Total, ICAP/MS	500	562	112.4	(70.00 - 130.00)	
MSD	Iron, Total, ICAP/MS	500	550	110.0	(70.00 - 130.00)	2.2

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(continued)

QC Batch #92979 Lead, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0224202		(0.00 - 0.00)	
LCS1	Lead, Total, ICAP/MS	20.0	21.6	108.0	(85.00 - 115.00)	
LCS2	Lead, Total, ICAP/MS	20.0	19.9	99.5	(85.00 - 115.00)	8.2
MBLK	Lead, Total, ICAP/MS	ND				
MS	Lead, Total, ICAP/MS	20.0	20.6	103.0	(70.00 - 130.00)	
MSD	Lead, Total, ICAP/MS	20.0	20.0	100.0	(70.00 - 130.00)	3.0

QC Batch #93005 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	3.99	99.8	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	3.71	92.8	(70.00 - 130.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	3.81	95.2	(70.00 - 130.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	3.76	94.0	(70.00 - 130.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	4.42	110.5	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MS	1,1-Dichloroethylene	4	4.69	117.3	(70.00 - 130.00)	
MSD	1,1-Dichloroethylene	4	4.59	114.8	(70.00 - 130.00)	2.2
MBLK	1,1-Dichloropropene	ND				
MBLK	1,2,3-Trichlorobenzene	ND				
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	4	3.87	96.8	(70.00 - 130.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	4	3.97	99.2	(70.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				

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Foster Wheeler Environmental, Inc
(continued)

LCS1	1,2-Dichloropropane	4	4.38	109.5	(70.00 - 130.00)	
MBLK	1,2-Dichloropropane	ND				
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	8	7.23	90.4	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
LCS1	p-Dichlorobenzene (1,4-DCB)	4	3.74	93.5	(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	0224202		(0.00 - 0.00)	
LCS1	Benzene	4	4.22	105.5	(70.00 - 130.00)	
MBLK	Benzene	ND				
MS	Benzene	4	4.47	111.8	(70.00 - 130.00)	
MSD	Benzene	4	4.28	107.0	(70.00 - 130.00)	4.3
MBLK	Bromobenzene	ND				
MBLK	Bromomethane (Methyl Bromide)	ND				
LCS1	cis-1,2-Dichloroethylene	4	4.23	105.8	(70.00 - 130.00)	
MBLK	cis-1,2-Dichloroethylene	ND				
LCS1	Chlorobenzene	4	3.91	97.8	(70.00 - 130.00)	
MBLK	Chlorobenzene	ND				
MS	Chlorobenzene	4	3.75	93.8	(70.00 - 130.00)	
MSD	Chlorobenzene	4	3.61	90.2	(70.00 - 130.00)	3.8
LCS1	Carbon Tetrachloride	4	4.03	100.8	(70.00 - 130.00)	
MBLK	Carbon Tetrachloride	ND				
MBLK	cis-1,3-Dichloropropene	ND				
LCS1	Bromoform	4	2.84	71.0	(70.00 - 130.00)	
MBLK	Bromoform	ND				
LCS1	Chloroform (Trichloromethane)	4	3.96	99.0	(70.00 - 130.00)	
MBLK	Chloroform (Trichloromethane)	ND				
MBLK	Bromochloromethane	ND				
MBLK	Chloroethane	ND				
MBLK	Chloromethane(Methyl Chloride)	ND				
LCS1	Chlorodibromomethane	4	3.61	90.2	(70.00 - 130.00)	

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(continued)

MBLK	Chlorodibromomethane	ND				
MBLK	Dibromomethane	ND				
LCS1	Bromodichloromethane	4	3.71	92.8	(70.00 - 130.00)	
MBLK	Bromodichloromethane	ND				
LCS1	Dichloromethane	4	4.10	102.5	(70.00 - 130.00)	
MBLK	Dichloromethane	ND				
LCS1	Ethyl benzene	4	3.90	97.5	(70.00 - 130.00)	
MBLK	Ethyl benzene	ND				
MBLK	Dichlorodifluoromethane	ND				
LCS1	Fluorotrichloromethane-Freon11	2	1.71	85.5	(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	8.03	100.4	(70.00 - 130.00)	
MBLK	m,p-Xylenes	ND				
MBLK	Naphthalene	ND				
MBLK	n-Butylbenzene	ND				
MBLK	n-Propylbenzene	ND				
LCS1	o-Xylene	4	3.92	98.0	(70.00 - 130.00)	
MBLK	o-Xylene	ND				
LCS1	o-Dichlorobenzene (1,2-DCB)	4	3.82	95.5	(70.00 - 130.00)	
MBLK	o-Dichlorobenzene (1,2-DCB)	ND				
LCS1	Tetrachloroethylene (PCE)	4	4.15	103.8	(70.00 - 130.00)	
MBLK	Tetrachloroethylene (PCE)	ND				
MBLK	p-Isopropyltoluene	ND				
MBLK	sec-Butylbenzene	ND				
LCS1	Styrene	4	3.76	94.0	(70.00 - 130.00)	
MBLK	Styrene	ND				
LCS1	1,2-dichloroethane-d4	100	101	101.0	(80.00 - 120.00)	
MBLK	1,2-dichloroethane-d4	100	91.0	91.0		
MS	1,2-dichloroethane-d4	100	109	109.0	(80.00 - 120.00)	
MSD	1,2-dichloroethane-d4	100	104	104.0	(80.00 - 120.00)	4.7
LCS1	Toluene-d8	100	95.5	95.5	(80.00 - 120.00)	
MBLK	Toluene-d8	100	93.6	93.6		
MS	Toluene-d8	100	91.5	91.5	(80.00 - 120.00)	
MSD	Toluene-d8	100	91.2	91.2	(80.00 - 120.00)	0.33

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(continued)

LCS1	4-Bromofluorobenzene	100	101	101.0	(80.00 - 120.00)	
MBLK	4-Bromofluorobenzene	100	101	101.0		
MS	4-Bromofluorobenzene	100	93.4	93.4	(80.00 - 120.00)	
MSD	4-Bromofluorobenzene	100	97.5	97.5	(80.00 - 120.00)	4.3
LCS1	trans-1,2-Dichloroethylene	4	4.43	110.8	(70.00 - 130.00)	
MBLK	trans-1,2-Dichloroethylene	ND				
MBLK	tert-Butylbenzene	ND				
LCS1	Trichloroethylene (TCE)	4	4.04	101.0	(70.00 - 130.00)	
MBLK	Trichloroethylene (TCE)	ND				
MS	Trichloroethylene (TCE)	4	4.45	111.0	(70.00 - 130.00)	
MSD	Trichloroethylene (TCE)	4	3.94	99.0	(70.00 - 130.00)	12
LCS1	Trichlorotrifluoroethane(Freon	2	1.79	89.5	(70.00 - 130.00)	
MBLK	Trichlorotrifluoroethane(Freon	ND				
MBLK	trans-1,3-Dichloropropene	ND				
LCS1	Toluene	4	4.06	101.5	(70.00 - 130.00)	
MBLK	Toluene	ND				
MS	Toluene	4	4.02	100.5	(70.00 - 130.00)	
MSD	Toluene	4	3.78	94.5	(70.00 - 130.00)	6.2
LCS1	Vinyl chloride (VC)	2	1.68	84.0	(70.00 - 130.00)	
MBLK	Vinyl chloride (VC)	ND				

QC Batch #93028 Arsenic, Total, GF

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0224202		(0.00 - 0.00)	
LCS1	Arsenic, Total, GF	0.020	0.0195	97.5	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.0195	97.5	(85.00 - 115.00)	0.00
MBLK	Arsenic, Total, GF	ND				
MS	Arsenic, Total, GF	0.020	0.0193	96.5	(70.00 - 130.00)	
MSD	Arsenic, Total, GF	0.020	0.0192	96.0	(70.00 - 130.00)	0.52

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Foster Wheeler Environmental, Inc
(continued)

QC Batch #93076 Calcium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0224201		(0.00 - 0.00)	
LCS1	Calcium, Total, ICAP	50	47.8	95.6	(85.00 - 115.00)	
LCS2	Calcium, Total, ICAP	50	48.0	96.0	(85.00 - 115.00)	0.42
MBLK	Calcium, Total, ICAP	ND				
MS	Calcium, Total, ICAP	50	50.6	101.2	(70.00 - 130.00)	
MSD	Calcium, Total, ICAP	50	52.1	104.2	(70.00 - 130.00)	2.9

QC Batch #93080 Potassium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0224201		(0.00 - 0.00)	
LCS1	Potassium, Total, ICAP	20	19.4	97.0	(80.00 - 110.00)	
LCS2	Potassium, Total, ICAP	20	19.5	97.5	(80.00 - 110.00)	0.51
MBLK	Potassium, Total, ICAP	ND				
MS	Potassium, Total, ICAP	20	19.3	96.5	(80.00 - 120.00)	
MSD	Potassium, Total, ICAP	20	19.6	98.0	(80.00 - 120.00)	1.5

QC Batch #93083 Magnesium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0224201		(0.00 - 0.00)	
LCS1	Magnesium, Total, ICAP	20	19.7	98.5	(85.00 - 115.00)	
LCS2	Magnesium, Total, ICAP	20	19.8	99.0	(85.00 - 115.00)	0.51
MBLK	Magnesium, Total, ICAP	ND				
MS	Magnesium, Total, ICAP	20	19.7	98.5	(70.00 - 130.00)	
MSD	Magnesium, Total, ICAP	20	20.2	101.0	(70.00 - 130.00)	2.5

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(continued)

QC Batch #93086 Sodium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0224201		(0.00 - 0.00)	
LCS1	Sodium, Total, ICAP	50	49.3	98.6	(85.00 - 115.00)	
LCS2	Sodium, Total, ICAP	50	49.7	99.4	(85.00 - 115.00)	0.81
MBLK	Sodium, Total, ICAP	ND				
MS	Sodium, Total, ICAP	50	47.0	94.0	(70.00 - 130.00)	
MSD	Sodium, Total, ICAP	50	47.8	95.6	(70.00 - 130.00)	1.7

QC Batch #93283 Perchlorate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0224200		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	19.2	96.0	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	18.9	94.5	(90.00 - 110.00)	1.6
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	19.1	95.5	(75.00 - 125.00)	
MSD	Perchlorate	20.0	19.3	96.5	(75.00 - 125.00)	1.0

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MONTGOMERY WATSON LABORATORIES

March 21, 1999

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

Attention: Mark Cutler

Re: Report # 52176 (MW-991-082, MW-991-083, MW-991-021 MW-991-022, MW-991-023, MW-991-024, MW-991-025)

Dear Mark,

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

Non-conformance (LCS,MS/MSD, Surrogates, and Holding Times):
(VOC) MW-991-083: Internal Standard (IS) #3 recovered below the QC acceptance limits in this sample. Any target analytes quantified off this IS will contain a high bias to the result. This sample is Non Detect, ND. The impact is minimal.
Samples requiring dilution (with increased MRL's):
MW-991-025: Chloride, Nitrate, Sulfate
Method blanks with compounds detected:
None
Other Comments:
None
TIC's:
None
Method Variance:
None

Sincerely,

Debbie Frank
Project Manager

cc: Judy Novelly (JPL)

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, 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#007618-0005-0001
Group#: 52176
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

The following samples were received from you on 02/25/99. 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	Matrix / Tests Scheduled					Sample Date
990225121	MW-991-082	Water					02/25/99
		@EBASVOA					
990225122	MW-991-083	Water					02/25/99
		@EBASVOA	AS-EBAS	CR-EBAS	PB-EBAS	CR-VI	
		CLO4					
990225123	MW-991-021	Water					02/25/99
		@EBASVOA	CR-VI	PB-EBAS	CR-EBAS	AS-EBAS	
		TDS	CATION1	ANION1	PH	EC	HCO3
		CO3	ALK	NO3	SO4	CL	FE-MS
		K	NA	MG	CA	CLO4	
990225124	MW-991-022	Water					02/25/99
		@EBASVOA	CLO4	CA	MG	NA	
		K	FE-MS	CL	SO4	NO3	ALK
		CO3	HCO3	EC	PH	ANION1	CATIO
		TDS	AS-EBAS	CR-EBAS	PB-EBAS	CR-VI	
990225125	MW-991-023	Water					02/25/99
		@EBASVOA	CLO4	CA	MG	NA	
		K	FE-MS	CL	SO4	NO3	ALK
		CO3	HCO3	EC	PH	ANION1	CATIO
		TDS	AS-EBAS	CR-EBAS	PB-EBAS	CR-VI	
990225126	MW-991-024	Water					02/25/99
		@EBASVOA	CLO4	CA	MG	NA	
		K	FE-MS	CL	SO4	NO3	ALK
		CO3	HCO3	EC	PH	ANION1	CATIO
		TDS	AS-EBAS	CR-EBAS	PB-EBAS	CR-VI	
990225127	MW-991-025	Water					02/25/99
		@EBASVOA	CLO4	CA	MG	NA	
		K	FE-MS	CL	SO4	NO3	ALK
		CO3	HCO3	EC	PH	ANION1	CATIO
		TDS	AS-EBAS	CR-EBAS	PB-EBAS	CR-VI	

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#007618-0005-0001
Group#: 52176
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)

52176

NUMBER 1250

TEMP. 5 -10

REG ICE STILL OK

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

PROJECT: JPL

OFS NO.: 1572.0268

PROJECT ADDRESS: 4800 OAK GROVE DR. PASADENA, CA

SAMPLER (Name): J. BRENNER

SAMPLER (Signature): J. Brenner

LABORATORY: MONTGOMERY WATSON LABS

REPORTS TO BE SENT TO: MR. MARK CUTLER

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

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

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL: WATER	SOIL	OTHER (Describe)	ANALYSES REQUIRED: VOCs (5242)	TOTAL As, Cr, Pb (6010/7000) *	MAJOR ANIONS + TDS *	HEX. Cr *	PEROXOMONOSULFATE	MS FOR VOCs	MSD FOR VOCs	MS/MSD FOR METALS	QC FOR Cr6+
MW-991-082	0830	2/25/94	2	2x40ml	X			X								
MW-991-083	1210		5	2x40ml 1x250ml 2x125ml	X			X	X		X	X				
MW-991-021 *	1000		6	2x40ml 1x250ml 2x125ml 1x500ml	X			X	X	X	X	X				
MW-991-022	1130		6	↓	X			X	X	X	X	X				
MW-991-023	1230		7	2x40ml 2x250ml 2x125ml 1x500ml	X			X	X	X	X	X			X	
MW-991-023MS	1230		2	2x40ml	X								X			
MW-991-023MSD	1230		2	2x40ml	X									X		
MW-991-024	1400		6	2x40ml 1x250ml 2x125ml 1x500ml	X			X	X	X	X	X				
MW-991-025	1500	↓	6	↓	X			X	X	X	X	X				X

* CLIENT DID NOT CHANGE ID'S ON TAG #'S. STATES "083", SOME LABELS WERE CHANGED FROM 083 TO 021.

LABORATORY INSTRUCTIONS/COMMENTS

LEVEL IV QA/QC

RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)	RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)
K. D. Taylor	2/25/94				
COMPANY: Foster Wheeler	TIME: 4:00	COMPANY: AL. W	COMPANY	TIME	COMPANY

F-2

FIELD COPY

MONTGOMERY LABORATORIES COOLER RECEIPT FORM

PROJECT: ENSERCH Date Received: 2-25-99

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: 2-25-99

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: SEE BACK
   If Yes, enter the following: seal date: 2/25/99, seal name: R.F.

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

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

5. Were custody papers filled out property (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) 2-25-99

B. LOG-IN PHASE: Date samples were logged-in: 2-25-99 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? (Yes) (No) — SEE COC
    If NO, indicate descrepancies on back.
    MLD 2-25-99

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

16. Were correct preservatives used when required? (Yes) No

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

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

19. Was Client Services informed of problems? Yes No

Report Summary of positive results, PR52176

			Result	MDL	UNITS
Analyzed	990225121	MW-991-082			
Analyzed	990225122	MW-991-083			
Analyzed	990225123	MW-991-021			
03/02/99	Alkalinity		139	2.000	MGL
03/05/99	Anion Sum		3.52	.001	MEQL
03/05/99	Bicarbonate as HCO3,calculated		167	.001	MGL
03/08/99	Calcium, Total, ICAP		13.4	1.000	MGL
03/05/99	Carbonate as CO3, Calculated		6.85	.001	MGL
03/12/99	Cation Sum		3.47	.001	MEQL
02/25/99	Chloride		8.6	1.000	MGL
02/26/99	Lab pH		8.8	.001	UNIT
03/08/99	Magnesium, Total, ICAP		3.47	1.000	MGL
03/08/99	Potassium, Total, ICAP		1.57	1.000	MGL
03/08/99	Sodium, Total, ICAP		56.9	1.000	MGL
03/02/99	Specific Conductance		325	4.000	UMHO
02/25/99	Sulfate		24	2.000	MGL
02/26/99	Total Dissolved Solid (TDS)		210	10.000	MGL
Analyzed	990225124	MW-991-022			
03/02/99	Alkalinity		134	2.000	MGL
03/05/99	Anion Sum		3.45	.001	MEQL
03/05/99	Bicarbonate as HCO3,calculated		162	.001	MGL
03/08/99	Calcium, Total, ICAP		10.3	1.000	MGL
03/05/99	Carbonate as CO3, Calculated		4.19	.001	MGL
03/12/99	Cation Sum		3.37	.001	MEQL
02/26/99	Chloride		11	1.000	MGL
02/26/99	Lab pH		8.6	.001	UNIT
03/08/99	Magnesium, Total, ICAP		2.89	1.000	MGL
03/08/99	Sodium, Total, ICAP		60.3	1.000	MGL
03/02/99	Specific Conductance		320	4.000	UMHO
02/26/99	Sulfate		22	2.000	MGL
02/26/99	Total Dissolved Solid (TDS)		200	10.000	MGL
Analyzed	990225125	MW-991-023			
03/02/99	Alkalinity		156	2.000	MGL
03/05/99	Anion Sum		4.97	.001	MEQL
03/05/99	Bicarbonate as HCO3,calculated		188	.001	MGL
03/08/99	Calcium, Total, ICAP		16.9	1.000	MGL
03/05/99	Carbonate as CO3, Calculated		6.12	.001	MGL
03/12/99	Cation Sum		4.78	.001	MEQL
02/26/99	Chloride		41	1.000	MGL
02/26/99	Lab pH		8.7	.001	UNIT
03/05/99	Lead, Total, ICAP/MS		9.5	2.000	UGL
03/08/99	Magnesium, Total, ICAP		14.0	1.000	MGL
02/26/99	Nitrate-N by IC		1.2	.100	MGL
03/08/99	Potassium, Total, ICAP		2.24	1.000	MGL
03/08/99	Sodium, Total, ICAP		62.8	1.000	MGL
03/02/99	Specific Conductance		450	4.000	UMHO
02/26/99	Sulfate		29	2.000	MGL

02/26/99	Total Dissolved Solid (TDS)	300	10.000	MGL
Analyzed	990225126 MW-991-024			
03/04/99	Chloroform (Trichloromethane)	4.2	.500	UGL
03/02/99	Alkalinity	148	2.000	MGL
03/05/99	Anion Sum	4.26	.001	MEQL
03/05/99	Bicarbonate as HCO3,calculated	180	.001	MGL
03/08/99	Calcium, Total, ICAP	43.0	1.000	MGL
03/05/99	Carbonate as CO3, Calculated	1.17	.001	MGL
03/12/99	Cation Sum	4.29	.001	MEQL
02/26/99	Chloride	14	1.000	MGL
02/26/99	Lab pH	8.0	.001	UNIT
03/08/99	Magnesium, Total, ICAP	17.5	1.000	MGL
02/26/99	Nitrate-N by IC	2.7	.100	MGL
03/08/99	Potassium, Total, ICAP	2.04	1.000	MGL
03/08/99	Sodium, Total, ICAP	14.8	1.000	MGL
03/02/99	Specific Conductance	370	4.000	UMHO
02/26/99	Sulfate	34	2.000	MGL
03/04/99	Total Dissolved Solid (TDS)	240	10.000	MGL
Analyzed	990225127 MW-991-025			
03/04/99	Chloroform (Trichloromethane)	2.2	.500	UGL
03/02/99	Alkalinity	164	2.000	MGL
03/05/99	Anion Sum	8.23	.001	MEQL
03/05/99	Bicarbonate as HCO3,calculated	200	.001	MGL
03/08/99	Calcium, Total, ICAP	93.0	1.000	MGL
03/05/99	Carbonate as CO3, Calculated	0.517	.001	MGL
03/12/99	Cation Sum	8.07	.001	MEQL
02/26/99	Chloride	49	2.000	MGL
02/26/99	Lab pH	7.6	.001	UNIT
03/08/99	Magnesium, Total, ICAP	29.4	1.000	MGL
02/26/99	Nitrate-N by IC	12	.200	MGL
03/11/99	Perchlorate	4.9	4.000	UGL
03/08/99	Potassium, Total, ICAP	3.24	1.000	MGL
03/08/99	Sodium, Total, ICAP	21.2	1.000	MGL
03/02/99	Specific Conductance	685	4.000	UMHO
02/26/99	Sulfate	130	4.000	MGL
03/04/99	Total Dissolved Solid (TDS)	420	10.000	MGL

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

Laboratory Report

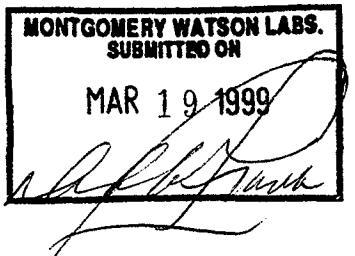
for

Foster Wheeler Environmental, Inc
611 Anton Boulevard

Suite 800

Costa Mesa , CA 92626

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



DEB* Debbie Frank

Report#: 52176
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
#52176

(990225122)
@EBASVOA
Internal standard#3 recovered below QC limit in this sample.
Target analytes quantitated off this IS will be biased high.
Since this sample is ND, the impact is minimal.
Reference QIR-MS-99-026.

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Laboratory
Report
#52176

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

Samples Received
25-feb-1999 16:43:28

MW-991-082 (990225121) Sampled on 02/25/99

Regulated VOCs plus Lists 1&3

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
03/04/99	93303		(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
03/04/99	93303		(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
03/04/99	93303		(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
03/04/99	93303		(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
03/04/99	93303		(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
03/04/99	93303		(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
03/04/99	93303		(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
03/04/99	93303		(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
03/04/99	93303		(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
03/04/99	93303		(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
03/04/99	93303		(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
03/04/99	93303		(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
03/04/99	93303		(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
03/04/99	93303		(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
03/04/99	93303		(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
03/04/99	93303		(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
03/04/99	93303		(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
03/04/99	93303		(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
03/04/99	93303		(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
03/04/99	93303		(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
03/04/99	93303		(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
03/04/99	93303		(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
03/04/99	93303		(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
03/04/99	93303		(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
03/04/99	93303		(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
03/04/99	93303		(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
03/04/99	93303		(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
03/04/99	93303		(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
03/04/99	93303		(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Laboratory Report #52176

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/04/99	93303	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	118	% Rec		
			(Surrogate)	4-Bromofluorobenzene	94	% Rec		
			(Surrogate)	Toluene-d8	86	% Rec		

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Laboratory Report #52176

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-991-083 (990225122) Sampled on 02/25/99								
03/05/99	03/05/99	93028	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	03/10/99	93285	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
03/04/99	03/05/99	92976	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	02/25/99	92630	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
03/04/99	03/05/99	92979	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
				Regulated VOCs plus Lists 1&3				
	03/04/99	93303	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/04/99	93303	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/04/99	93303	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1

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Laboratory Report #52176

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/04/99	93303	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	117	% Rec		
			(Surrogate)	4-Bromofluorobenzene	88	% Rec		

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Laboratory Report #52176

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
			(Surrogate)	Toluene-d8	93	% Rec		
MW-991-021 (990225123) Sampled on 02/25/99								
	03/02/99	92809	(ML/SM2320B)	Alkalinity	139	mg/l	2.0	1
	03/05/99		(ML/SM1040)	Anion Sum	3.52	meq/l	0.0010	1
03/05/99	03/05/99	93028	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
03/08/99	03/08/99	93076	(ML/EPA 200.7)	Calcium, Total, ICAP	13.4	mg/l	1.0	1
	03/12/99		(ML/SM1040)	Cation Sum	3.47	meq/l	0.0010	1
	02/25/99	92878	(ML/EPA 300)	Chloride	8.6	mg/l	1.0	1
	03/11/99	93285	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	03/05/99		(ML/SM2320B)	Carbonate as CO3, Calculated	6.85	mg/l	0.0010	1
03/04/99	03/05/99	92976	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	02/25/99	92630	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	03/02/99	92749	(ML/S2510B)	Specific Conductance	325	umho/cm	4.0	1
03/04/99	03/05/99	92977	(EPA/ML 200.8)	Iron, Total, ICAP/MS	ND	ug/l	100	1
	03/05/99		(ML/SM2320B)	Bicarbonate as HCO3,calculated	167	mg/l	0.0010	1
03/08/99	03/08/99	93080	(ML/EPA 200.7)	Potassium, Total, ICAP	1.57	mg/l	1.0	1
03/08/99	03/08/99	93083	(ML/EPA 200.7)	Magnesium, Total, ICAP	3.47	mg/l	1.0	1
03/08/99	03/08/99	93086	(ML/EPA 200.7)	Sodium, Total, ICAP	56.9	mg/l	1.0	1
	02/25/99	92880	(ML/EPA 300.0)	Nitrate-N by IC	ND	mg/l	0.10	1
03/04/99	03/05/99	92979	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	02/26/99	92680	(ML/SM4500H-B)	Lab pH	8.8	Units	0.0010	1
	02/25/99	92882	(ML/EPA 300.0)	Sulfate	24	mg/l	2.0	1
	02/26/99	92777	(ML/S2540C)	Total Dissolved Solid (TDS)	210	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	03/04/99	93303	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/04/99	93303	(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	MDL	Dilution
	03/04/99	93303	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/04/99	93303	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/04/99	93303	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/04/99	93303	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/04/99	93303	(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	89	% Rec		
			(Surrogate)	Toluene-d8	89	% Rec		
MW-991-022 (990225124)			**Sampled on**	**02/25/99**				
	03/02/99	92809	(ML/SM2320B)	Alkalinity	134	mg/l	2.0	1
	03/05/99		(ML/SM1040)	Anion Sum	3.45	meq/l	0.0010	1
03/05/99	03/05/99	93028	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
03/08/99	03/08/99	93076	(ML/EPA 200.7)	Calcium, Total, ICAP	10.3	mg/l	1.0	1
	03/12/99		(ML/SM1040)	Cation Sum	3.37	meq/l	0.0010	1
	02/26/99	92878	(ML/EPA 300)	Chloride	11	mg/l	1.0	1
	03/11/99	93285	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	03/05/99		(ML/SM2320B)	Carbonate as CO3, Calculated	4.19	mg/l	0.0010	1
03/04/99	03/05/99	92976	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	02/25/99	92630	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	03/02/99	92749	(ML/S2510B)	Specific Conductance	320	umho/cm	4.0	1
03/04/99	03/05/99	92977	(EPA/ML 200.8)	Iron, Total, ICAP/MS	ND	ug/l	100	1
	03/05/99		(ML/SM2320B)	Bicarbonate as HCO3,calculated	162	mg/l	0.0010	1
03/08/99	03/08/99	93080	(ML/EPA 200.7)	Potassium, Total, ICAP	ND	mg/l	1.0	1
03/08/99	03/08/99	93083	(ML/EPA 200.7)	Magnesium, Total, ICAP	2.89	mg/l	1.0	1
03/08/99	03/08/99	93086	(ML/EPA 200.7)	Sodium, Total, ICAP	60.3	mg/l	1.0	1

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	02/26/99	92880	(ML/EPA 300.0)	Nitrate-N by IC	ND	mg/l	0.10	1
03/04/99	03/05/99	92979	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	02/26/99	92680	(ML/SM4500H-B)	Lab pH	8.6	Units	0.0010	1
	02/26/99	92882	(ML/EPA 300.0)	Sulfate	22	mg/l	2.0	1
	02/26/99	92777	(ML/S2540C)	Total Dissolved Solid (TDS)	200	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	03/04/99	93303	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/04/99	93303	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/04/99	93303	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Laboratory Report #52176

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/04/99	93303	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	115	% Rec		
			(Surrogate)	4-Bromofluorobenzene	90	% Rec		
			(Surrogate)	Toluene-d8	90	% Rec		

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Laboratory
Report
#52176

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-991-023 (990225125) Sampled on 02/25/99								
	03/02/99	92809	(ML/SM2320B)	Alkalinity	156	mg/l	2.0	1
	03/05/99		(ML/SM1040)	Anion Sum	4.97	meq/l	0.0010	1
03/05/99	03/05/99	93028	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
03/08/99	03/08/99	93076	(ML/EPA 200.7)	Calcium, Total, ICAP	16.9	mg/l	1.0	1
	03/12/99		(ML/SM1040)	Cation Sum	4.78	meq/l	0.0010	1
	02/26/99	92878	(ML/EPA 300)	Chloride	41	mg/l	1.0	1
	03/11/99	93285	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	03/05/99		(ML/SM2320B)	Carbonate as CO3, Calculated	6.12	mg/l	0.0010	1
03/04/99	03/05/99	92976	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	02/25/99	92630	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	03/02/99	92749	(ML/S2510B)	Specific Conductance	450	umho/cm	4.0	1
03/04/99	03/05/99	92977	(EPA/ML 200.8)	Iron, Total, ICAP/MS	ND	ug/l	100	1
	03/05/99		(ML/SM2320B)	Bicarbonate as HCO3,calculated	188	mg/l	0.0010	1
03/08/99	03/08/99	93080	(ML/EPA 200.7)	Potassium, Total, ICAP	2.24	mg/l	1.0	1
03/08/99	03/08/99	93083	(ML/EPA 200.7)	Magnesium, Total, ICAP	14.0	mg/l	1.0	1
03/08/99	03/08/99	93086	(ML/EPA 200.7)	Sodium, Total, ICAP	62.8	mg/l	1.0	1
	02/26/99	92880	(ML/EPA 300.0)	Nitrate-N by IC	1.2	mg/l	0.10	1
03/04/99	03/05/99	92979	(EPA/ML 200.8)	Lead, Total, ICAP/MS	9.5	ug/l	2.0	1
	02/26/99	92680	(ML/SM4500H-B)	Lab pH	8.7	Units	0.0010	1
	02/26/99	92882	(ML/EPA 300.0)	Sulfate	29	mg/l	2.0	1
	02/26/99	92777	(ML/S2540C)	Total Dissolved Solid (TDS)	300	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	03/04/99	93303	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/04/99	93303	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/04/99	93303	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/04/99	93303	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1

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Laboratory Report #52176

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/04/99	93303	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/04/99	93303	(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	84	% Rec		
			(Surrogate)	Toluene-d8	82	% Rec		
MW-991-024 (990225126)			**Sampled on 02/25/99**					
	03/02/99	92807	(ML/SM2320B)	Alkalinity	148	mg/l	2.0	1
	03/05/99		(ML/SM1040)	Anion Sum	4.26	meq/l	0.0010	1
03/05/99	03/05/99	93028	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
03/08/99	03/08/99	93076	(ML/EPA 200.7)	Calcium, Total, ICAP	43.0	mg/l	1.0	1
	03/12/99		(ML/SM1040)	Cation Sum	4.29	meq/l	0.0010	1
	02/26/99	92878	(ML/EPA 300)	Chloride	14	mg/l	1.0	1
	03/11/99	93285	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	03/05/99		(ML/SM2320B)	Carbonate as CO3, Calculated	1.17	mg/l	0.0010	1
03/04/99	03/05/99	92976	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	02/25/99	92630	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	03/02/99	92749	(ML/S2510B)	Specific Conductance	370	umho/cm	4.0	1
03/04/99	03/05/99	92977	(EPA/ML 200.8)	Iron, Total, ICAP/MS	ND	ug/l	100	1
	03/05/99		(ML/SM2320B)	Bicarbonate as HCO3,calculated	180	mg/l	0.0010	1
03/08/99	03/08/99	93080	(ML/EPA 200.7)	Potassium, Total, ICAP	2.04	mg/l	1.0	1
03/08/99	03/08/99	93083	(ML/EPA 200.7)	Magnesium, Total, ICAP	17.5	mg/l	1.0	1
03/08/99	03/08/99	93086	(ML/EPA 200.7)	Sodium, Total, ICAP	14.8	mg/l	1.0	1
	02/26/99	92880	(ML/EPA 300.0)	Nitrate-N by IC	2.7	mg/l	0.10	1

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
03/04/99	03/05/99	92979	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	02/26/99	92680	(ML/SM4500H-B)	Lab pH	8.0	Units	0.0010	1
	02/26/99	92882	(ML/EPA 300.0)	Sulfate	34	mg/l	2.0	1
	03/04/99	92914	(ML/S2540C)	Total Dissolved Solid (TDS)	240	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	03/04/99	93303	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/04/99	93303	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/04/99	93303	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Chloroform (Trichloromethane)	4.2	ug/l	0.50	1

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Laboratory Report #52176

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/04/99	93303	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	120	% Rec		
			(Surrogate)	4-Bromofluorobenzene	91	% Rec		
			(Surrogate)	Toluene-d8	88	% Rec		

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-991-025 (990225127) Sampled on 02/25/99								
	03/02/99	92809	(ML/SM2320B)	Alkalinity	164	mg/l	2.0	1
	03/05/99		(ML/SM1040)	Anion Sum	8.23	meq/l	0.0010	1
03/05/99	03/05/99	93028	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
03/08/99	03/08/99	93076	(ML/EPA 200.7)	Calcium, Total, ICAP	93.0	mg/l	1.0	1
	03/12/99		(ML/SM1040)	Cation Sum	8.07	meq/l	0.0010	1
	02/26/99	92878	(ML/EPA 300)	Chloride	49	mg/l	2.0	2
	03/11/99	93285	(MOD/EPA 300)	Perchlorate	4.9	ug/l	4.0	1
	03/05/99		(ML/SM2320B)	Carbonate as CO3, Calculated	0.517	mg/l	0.0010	1
03/04/99	03/05/99	92976	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	02/25/99	92630	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	03/02/99	92749	(ML/S2510B)	Specific Conductance	685	umho/cm	4.0	1
03/04/99	03/05/99	92977	(EPA/ML 200.8)	Iron, Total, ICAP/MS	ND	ug/l	100	1
	03/05/99		(ML/SM2320B)	Bicarbonate as HCO3,calculated	200	mg/l	0.0010	1
03/08/99	03/08/99	93080	(ML/EPA 200.7)	Potassium, Total, ICAP	3.24	mg/l	1.0	1
03/08/99	03/08/99	93083	(ML/EPA 200.7)	Magnesium, Total, ICAP	29.4	mg/l	1.0	1
03/08/99	03/08/99	93086	(ML/EPA 200.7)	Sodium, Total, ICAP	21.2	mg/l	1.0	1
	02/26/99	92880	(ML/EPA 300.0)	Nitrate-N by IC	12	mg/l	0.20	2
03/04/99	03/05/99	92979	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	02/26/99	92680	(ML/SM4500H-B)	Lab pH	7.6	Units	0.0010	1
	02/26/99	92882	(ML/EPA 300.0)	Sulfate	130	mg/l	4.0	2
	03/04/99	92914	(ML/S2540C)	Total Dissolved Solid (TDS)	420	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	03/04/99	93303	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/04/99	93303	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/04/99	93303	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/04/99	93303	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Chloroform (Trichloromethane)	2.2	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	n-Propylbenzene	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	MDL	Dilution
	03/04/99	93303	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	112	% Rec		
			(Surrogate)	4-Bromofluorobenzene	90	% Rec		
			(Surrogate)	Toluene-d8	86	% Rec		

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QC Batch #92630 — Hexavalent chromium (Cr VI)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0225127		(0.00 - 0.00)	
LCS1	Hexavalent chromium (Cr VI)	0.050	0.0494	98.8	(78.00 - 118.00)	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.0500	100.0	(78.00 - 118.00)	1.2
MBLK	Hexavalent chromium (Cr VI)	ND				
MS	Hexavalent chromium (Cr VI)	0.050	0.0494	98.8	(80.00 - 120.00)	
MSD	Hexavalent chromium (Cr VI)	0.050	0.0500	100.0	(80.00 - 120.00)	1.2

QC Batch #92680 — Lab pH

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	lab # 99	0225127		(0.00 - 0.00)	

QC Batch #92749 — Specific Conductance

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 99	0225127		(0.00 - 0.00)	

QC Batch #92777 — Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 99	021515		(0.00 - 0.00)	
LCS1	Total Dissolved Solid (TDS)	175	170	97.1	(85.00 - 115.00)	
LCS2	Total Dissolved Solid (TDS)	700	682	97.4	(85.00 - 115.00)	
MBLK	Total Dissolved Solid (TDS)	ND				

QC Batch #92807 — Alkalinity

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0226110		(0.00 - 0.00)	
LCS1	Alkalinity	96.2	97.9	101.8	(90.00 - 110.00)	
LCS2	Alkalinity	96.2	97.5	101.4	(90.00 - 110.00)	0.41
MBLK	Alkalinity	ND				

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

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MS	Alkalinity	96.2	89.0	92.5	(80.00 - 120.00)	
MSD	Alkalinity	96.2	89.0	92.5	(80.00 - 120.00)	0.00

QC Batch #92809 Alkalinity

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0226110		(0.00 - 0.00)	
LCS1	Alkalinity	96.2	97.9	101.8	(90.00 - 110.00)	
LCS2	Alkalinity	96.2	97.5	101.4	(90.00 - 110.00)	0.41
MBLK	Alkalinity	ND				
MS	Alkalinity	96.2	89.0	92.5	(80.00 - 120.00)	
MSD	Alkalinity	96.2	89.0	92.5	(80.00 - 120.00)	0.00

QC Batch #92878 Chloride

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0224201		(0.00 - 0.00)	
LCS1	Chloride	25	25.3	101.2	(90.00 - 110.00)	
LCS2	Chloride	25	25.3	101.2	(90.00 - 110.00)	0.00
MBLK	Chloride	ND				
MS	Chloride	25	28.5	114.0	(80.00 - 120.00)	
MSD	Chloride	25	28.5	114.0	(80.00 - 120.00)	0.00

QC Batch #92880 Nitrate-N by IC

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0224078		(0.00 - 0.00)	
LCS1	Nitrate-N by IC	2.5	2.56	102.4	(90.00 - 110.00)	
LCS2	Nitrate-N by IC	2.5	2.55	102.0	(90.00 - 110.00)	0.39
MBLK	Nitrate-N by IC	ND				
MS	Nitrate-N by IC	2.5	2.51	100.4	(80.00 - 120.00)	
MSD	Nitrate-N by IC	2.5	2.51	100.4	(80.00 - 120.00)	0.00

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QC Batch #92882 Sulfate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0224078		(0.00 - 0.00)	
LCS1	Sulfate	50	50.2	100.4	(90.00 - 110.00)	
LCS2	Sulfate	50	50.3	100.6	(90.00 - 110.00)	0.20
MBLK	Sulfate	ND				
MS	Sulfate	50	53.6	107.2	(80.00 - 120.00)	
MSD	Sulfate	50	53.6	107.2	(80.00 - 120.00)	0.00

QC Batch #92914 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 99	0302066		(0.00 - 0.00)	
LCS1	Total Dissolved Solid (TDS)	175	170	97.1	(85.00 - 115.00)	
LCS2	Total Dissolved Solid (TDS)	700	684	97.7	(85.00 - 115.00)	
MBLK	Total Dissolved Solid (TDS)	ND				

QC Batch #92976 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0224202		(0.00 - 0.00)	
LCS1	Chromium, Total, ICAP/MS	100	99	99.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	95	95.0	(85.00 - 115.00)	4.1
MBLK	Chromium, Total, ICAP/MS	ND				
MS	Chromium, Total, ICAP/MS	100	98	98.0	(70.00 - 130.00)	
MSD	Chromium, Total, ICAP/MS	100	95	95.0	(70.00 - 130.00)	3.1

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

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QC Batch #92977 Iron, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0224202		(0.00 - 0.00)	
LCS1	Iron, Total, ICAP/MS	500	543	108.6	(85.00 - 115.00)	
LCS2	Iron, Total, ICAP/MS	500	517	103.4	(85.00 - 115.00)	4.9
MBLK	Iron, Total, ICAP/MS	ND				
MS	Iron, Total, ICAP/MS	500	562	112.4	(70.00 - 130.00)	
MSD	Iron, Total, ICAP/MS	500	550	110.0	(70.00 - 130.00)	2.2

QC Batch #92979 Lead, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0224202		(0.00 - 0.00)	
LCS1	Lead, Total, ICAP/MS	20.0	21.6	108.0	(85.00 - 115.00)	
LCS2	Lead, Total, ICAP/MS	20.0	19.9	99.5	(85.00 - 115.00)	8.2
MBLK	Lead, Total, ICAP/MS	ND				
MS	Lead, Total, ICAP/MS	20.0	20.6	103.0	(70.00 - 130.00)	
MSD	Lead, Total, ICAP/MS	20.0	20.0	100.0	(70.00 - 130.00)	3.0

QC Batch #93028 Arsenic, Total, GF

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0224202		(0.00 - 0.00)	
LCS1	Arsenic, Total, GF	0.020	0.0195	97.5	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.0195	97.5	(85.00 - 115.00)	0.00
MBLK	Arsenic, Total, GF	ND				
MS	Arsenic, Total, GF	0.020	0.0193	96.5	(70.00 - 130.00)	
MSD	Arsenic, Total, GF	0.020	0.0192	96.0	(70.00 - 130.00)	0.52

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
#52176

Foster Wheeler Environmental, Inc
(continued)

QC Batch #93076 Calcium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0224201		(0.00 - 0.00)	
LCS1	Calcium, Total, ICAP	50	47.8	95.6	(85.00 - 115.00)	
LCS2	Calcium, Total, ICAP	50	48.0	96.0	(85.00 - 115.00)	0.42
MBLK	Calcium, Total, ICAP	ND				
MS	Calcium, Total, ICAP	50	50.6	101.2	(70.00 - 130.00)	
MSD	Calcium, Total, ICAP	50	52.1	104.2	(70.00 - 130.00)	2.9

QC Batch #93080 Potassium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0224201		(0.00 - 0.00)	
LCS1	Potassium, Total, ICAP	20	19.4	97.0	(80.00 - 110.00)	
LCS2	Potassium, Total, ICAP	20	19.5	97.5	(80.00 - 110.00)	0.51
MBLK	Potassium, Total, ICAP	ND				
MS	Potassium, Total, ICAP	20	19.3	96.5	(80.00 - 120.00)	
MSD	Potassium, Total, ICAP	20	19.6	98.0	(80.00 - 120.00)	1.5

QC Batch #93083 Magnesium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0224201		(0.00 - 0.00)	
LCS1	Magnesium, Total, ICAP	20	19.7	98.5	(85.00 - 115.00)	
LCS2	Magnesium, Total, ICAP	20	19.8	99.0	(85.00 - 115.00)	0.51
MBLK	Magnesium, Total, ICAP	ND				
MS	Magnesium, Total, ICAP	20	19.7	98.5	(70.00 - 130.00)	
MSD	Magnesium, Total, ICAP	20	20.2	101.0	(70.00 - 130.00)	2.5

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Foster Wheeler Environmental, Inc
(continued)

QC Batch #93086 Sodium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0224201		(0.00 - 0.00)	
LCS1	Sodium, Total, ICAP	50	49.3	98.6	(85.00 - 115.00)	
LCS2	Sodium, Total, ICAP	50	49.7	99.4	(85.00 - 115.00)	0.81
MBLK	Sodium, Total, ICAP	ND				
MS	Sodium, Total, ICAP	50	47.0	94.0	(70.00 - 130.00)	
MSD	Sodium, Total, ICAP	50	47.8	95.6	(70.00 - 130.00)	1.7

QC Batch #93285 Perchlorate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0225123		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	19.5	97.5	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	20.2	101.0	(90.00 - 110.00)	3.5
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	17.8	89.0	(75.00 - 125.00)	
MSD	Perchlorate	20.0	19.2	96.0	(75.00 - 125.00)	7.6

QC Batch #93303 Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	4	4.16	104.0	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	3.44	86.0	(70.00 - 130.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	3.62	90.5	(70.00 - 130.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	3.95	98.8	(70.00 - 130.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	4.63	115.8	(70.00 - 130.00)	

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Foster Wheeler Environmental, Inc
(continued)

MBLK	1,1-Dichloroethylene	ND				
MS	1,1-Dichloroethylene	4	4.69	117.3	(70.00 - 130.00)	
MSD	1,1-Dichloroethylene	4	4.59	114.8	(70.00 - 130.00)	2.2
MBLK	1,1-Dichloropropene	ND				
MBLK	1,2,3-Trichlorobenzene	ND				
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	4	3.48	87.0	(70.00 - 130.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	4	4.12	103.0	(70.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	4	4.42	110.5	(70.00 - 130.00)	
MBLK	1,2-Dichloropropane	ND				
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	8	6.52	81.5	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
LCS1	p-Dichlorobenzene (1,4-DCB)	4	3.55	88.8	(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	0224202		(0.00 - 0.00)	
LCS1	Benzene	4	4.36	109.0	(70.00 - 130.00)	
MBLK	Benzene	ND				
MS	Benzene	4	4.47	111.8	(70.00 - 130.00)	
MSD	Benzene	4	4.28	107.0	(70.00 - 130.00)	4.3
MBLK	Bromobenzene	ND				
MBLK	Bromomethane (Methyl Bromide)	ND				
LCS1	cis-1,2-Dichloroethylene	4	4.40	110.0	(70.00 - 130.00)	
MBLK	cis-1,2-Dichloroethylene	ND				
LCS1	Chlorobenzene	4	3.61	90.2	(70.00 - 130.00)	
MBLK	Chlorobenzene	ND				
MS	Chlorobenzene	4	3.75	93.8	(70.00 - 130.00)	
MSD	Chlorobenzene	4	3.61	90.2	(70.00 - 130.00)	3.8

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Foster Wheeler Environmental, Inc
(continued)

LCS1	Carbon Tetrachloride	4	4.58	114.5	(70.00 - 130.00)
MBLK	Carbon Tetrachloride	ND			
MBLK	cis-1,3-Dichloropropene	ND			
LCS1	Bromoform	8	5.81	72.6	(70.00 - 130.00)
MBLK	Bromoform	ND			
LCS1	Chloroform (Trichloromethane)	4	4.27	106.7	(70.00 - 130.00)
MBLK	Chloroform (Trichloromethane)	ND			
MBLK	Bromochloromethane	ND			
MBLK	Chloroethane	ND			
MBLK	Chloromethane(Methyl Chloride)	ND			
LCS1	Chlorodibromomethane	4	3.05	76.2	(70.00 - 130.00)
MBLK	Chlorodibromomethane	ND			
MBLK	Dibromomethane	ND			
LCS1	Bromodichloromethane	4	3.53	88.2	(70.00 - 130.00)
MBLK	Bromodichloromethane	ND			
LCS1	Dichloromethane	4	4.13	103.2	(70.00 - 130.00)
MBLK	Dichloromethane	ND			
LCS1	Ethyl benzene	4	3.57	89.2	(70.00 - 130.00)
MBLK	Ethyl benzene	ND			
MBLK	Dichlorodifluoromethane	ND			
LCS1	Fluorotrichloromethane-Freon11	2	1.83	91.5	(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	7.27	90.9	(70.00 - 130.00)
MBLK	m,p-Xylenes	ND			
MBLK	Naphthalene	ND			
MBLK	n-Butylbenzene	ND			
MBLK	n-Propylbenzene	ND			
LCS1	o-Xylene	4	3.55	88.8	(70.00 - 130.00)
MBLK	o-Xylene	ND			
LCS1	o-Dichlorobenzene (1,2-DCB)	4	3.86	96.5	(70.00 - 130.00)
MBLK	o-Dichlorobenzene (1,2-DCB)	ND			
LCS1	Tetrachloroethylene (PCE)	4	3.66	91.5	(70.00 - 130.00)
MBLK	Tetrachloroethylene (PCE)	ND			
MBLK	p-Isopropyltoluene	ND			

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Laboratory
QC Report
#52176

Foster Wheeler Environmental, Inc
(continued)

MBLK	sec-Butylbenzene	ND				
LCS1	Styrene	4	3.32	83.0	(70.00 - 130.00)	
MBLK	Styrene	ND				
LCS1	1,2-dichloroethane-d4	100	104	104.0	(80.00 - 120.00)	
MBLK	1,2-dichloroethane-d4	100	105	105.0		
MS	1,2-dichloroethane-d4	100	109	109.0	(80.00 - 120.00)	
MSD	1,2-dichloroethane-d4	100	104	104.0	(80.00 - 120.00)	4.7
LCS1	Toluene-d8	100	90	90.0	(80.00 - 120.00)	
MBLK	Toluene-d8	100	91.0	91.0		
MS	Toluene-d8	100	91.5	91.5	(80.00 - 120.00)	
MSD	Toluene-d8	100	91.2	91.2	(80.00 - 120.00)	0.33
LCS1	4-Bromofluorobenzene	100	98	98.0	(80.00 - 120.00)	
MBLK	4-Bromofluorobenzene	100	93.6	93.6		
MS	4-Bromofluorobenzene	100	93.4	93.4	(80.00 - 120.00)	
MSD	4-Bromofluorobenzene	100	97.5	97.5	(80.00 - 120.00)	4.3
LCS1	trans-1,2-Dichloroethylene	4	4.72	118.0	(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	4.45	111.2	(70.00 - 130.00)	
MSD	Trichloroethylene (TCE)	4	3.94	98.5	(70.00 - 130.00)	12
LCS1	Trichlorotrifluoroethane(Freon	2	2.01	100.5	(70.00 - 130.00)	
MBLK	Trichlorotrifluoroethane(Freon	ND				
MBLK	trans-1,3-Dichloropropene	ND				
LCS1	Toluene	4	3.94	98.5	(70.00 - 130.00)	
MBLK	Toluene	ND				
MS	Toluene	4	4.02	100.5	(70.00 - 130.00)	
MSD	Toluene	4	3.78	94.5	(70.00 - 130.00)	6.2
LCS1	Vinyl chloride (VC)	2	2.04	102.0	(70.00 - 130.00)	
MBLK	Vinyl chloride (VC)	ND				

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MONTGOMERY WATSON LABORATORIES

Quality Environmental Analysis

A division of Montgomery Watson Americas, Inc.

April 9, 1999

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

Attention: Mark Cutler

Re: Report # 52208 (MW-991-084, MW-991-085, MW-991-026 MW-991-027, MW-991-028, MW-991-029, MW-991-030)

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):
(VOC) QC batch 93298: The LCS for Bromoform recovered at 60.2, which is below the acceptance criteria of 70-130. The sample associated with this QC batch is ND with a low bias for this compound and flagged with a J.
The LCS for Carbon Tetrachloride recovered above acceptance criteria of 70-130, at 130.2%. The reported sample is ND for this compound. The result is reported without qualification.
A re-analysis was attempted within the HT of 7 days, but the instrument failed to acquire the data thus the run was not successful. Results are reported from the run within HT.

Samples requiring dilution (with increased MRL's):
MW-991-030 was diluted for Iron.

Method blanks with compounds detected:
None

Other Comments:
Chloroform was detected in sample ID: MW-991-027
Tetrachloroethylene was detected in sample ID: MW-991-026, -028
Trichloroethylene was detected in sample ID: MW-991-029

TIC's:
None

Method Variance:
None

Sincerely,

Debbie Frank
Project Manager

cc: Judy Novelly (JPL)

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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#007618-0005-0001
Group#: 52208
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

The following samples were received from you on 02/26/99. 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
990226108	MW-991-084	@EBASVOA	Water	02/26/99
990226109	MW-991-085	@EBASVOA AS-EBAS CR-EBAS PB-EBAS CR-VI CLO4	Water	02/26/99
990226110	MW-991-026	@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	02/26/99
990226111	MW-991-027	@EBASVOA CLO4 CA MG NA K FE-MS CL SO4 NO3 ALK CO3 HCO3 EC PH ANION1 CATIC TDS AS-EBAS CR-EBAS PB-EBAS CR-VI	Water	02/26/99
990226112	MW-991-028	@EBASVOA CLO4 CA MG NA K FE-MS CL SO4 NO3 ALK CO3 HCO3 EC PH ANION1 CATIC TDS AS-EBAS CR-EBAS PB-EBAS CR-VI	Water	02/26/99
990226113	MW-991-029	@EBASVOA CLO4 CA MG NA K FE-MS CL SO4 NO3 ALK CO3 HCO3 EC PH ANION1 CATIC TDS AS-EBAS CR-EBAS PB-EBAS CR-VI	Water	02/26/99
990226114	MW-991-030	@EBASVOA CLO4 CA MG NA K FE-MS CL SO4 NO3 ALK CO3 HCO3 EC PH ANION1 CATIC TDS AS-EBAS CR-EBAS PB-EBAS CR-VI	Water	02/26/99

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#007618-0005-0001
Group#: 52208
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

Test Acronym Description

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

NUMBER 1237

52208

TEMP: 5 - 10
REG ICE STILL OK

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

PROJECT: JPL
OFS NO.: 1572 0268
PROJECT ADDRESS: 4800 OAK GROVE DR. PASADENA CA
SAMPLER (Name): J. BIENNER
SAMPLER (Signature): J. B
LABORATORY: MONTGOMERY WATSON LABS
REPORTS TO BE SENT TO: MR. MARK CUTLER

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

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

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL: WATER	SOIL	OTHER (Describe)	ANALYSES REQUIRED: VOCs (524.2)	TOTAL As, Cr, Pb (6010/7000)	MASS ANIONS + TDS	Hex Cr	ClO_4 (Perchlorate)	MS for VOCs	MSD for VOCs	MS/MSD for Metals	QC for ClO_4
MW-991-024	1005	2/26/99	2	2 x 40ml	X			X								
MW-991-025	1000		5	2x40ml 1x250ml 2x125ml	X1			X	X		X	X				
MW-991-026	0930		6	2x40ml 1x250ml 2x125ml 1x500ml	X			X	X	X	X	X				
MW-991-027	1045		6	↓	X			X	X	X	X	✓				
MW-991-028	1150		6	↓	X			X	X	X	X	X				
MW-991-028MS	1150		2	2 x 40ml	X								X			
MW-991-028SD	1150		2	2 x 40ml	X									X		
MW-991-028MS/MSD	1150		1	1 x 250ml	X										X	
MW-991-029	1320		6	2x40ml 1x250ml 2x125ml 1x500ml	X			X	X	✓	X	X				
MW-991-030	1420		6	↓	X			X	X	X	X	X				X

LABORATORY INSTRUCTIONS/COMMENTS

LEVEL IV QA/QC

RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)	RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)
COMPANY	TIME	COMPANY	COMPANY	TIME	COMPANY
[illegible]	2/26/99 3:30	M. DEC [illegible]			

F-2

SH[illegible] COPY

MONTGOMERY LABORATORIES COOLER RECEIPT FORM

PROJECT: ENSERCH Date Received: 2-26-99

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: 2-26-99

by (print) M. DE MESA (sign) _____

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: SEE BACK
   If Yes, enter the following: seal date: 2/24, seal name: LR

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: MD (date) 2-26-99

B. LOG-IN PHASE: Date samples were logged-in: 2-26-99 by:
   (print) M. DE MESA (sign) _____

9. Describe packing:

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

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

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

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

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

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

16. Were correct preservatives used when required? (Yes) No

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

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

19. Was Client Services informed of problems? Yes No

QUALITY INVESTIGATION REPORT

QIR No. MS-99-036

Analysis Date: 3-05-99

Analysis: 524.2 MSC 3/30/99

Extraction Date: —

Matrix: Water

Analyst: Cecilia Lee

Instrument ID: GCMS-H

SAMPLES IMPACTED

Lab #	Client ID	Client Name	Lab #	Client ID	Client Name
990226111	Ensech		990301251	Ensech	
~~990226112~~			990301252		
990303001	WRD		990301253		
002			990301254		
003			990301255		
004			990301256		
005					

Brief Description: (include reason for non-compliance)

Bromoform in the LFB is 60%, This is lower than acceptal Limit of 70-130%. The Results for Bromoform in the above Samples are going to be biased Low.
Also recovery of CCly in the LFB is 130.2%, control

Action Taken: Limit is 70-130%. The Bromoform percent recovery was miscalculated by analyst to be 80%, but during data review by supervisor the error in calculation was corrected to be 60%. By this time Samples were past Holding time

Impact on Data Quality: Corrective action was not possible.

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

Other:

Annotation: Report was annotated.

Client Contact: Mssg M. Cutler mssg 3/30/99 - Data should be flagged J per Email?
WRD - Report and Annotate as above

		Date:
Extraction:		
Analyst:	Cecilia Lee	3-30-99
Group Leader:		3-30-99
QA Coordinator:		3/30/99
Project Manager:		3/30/99 4/7/99

L

Report Summary of positive results, PR52208

			Result	MDL	UNITS
Analyzed	990226108	MW-991-084			
Analyzed	990226109	MW-991-085			
Analyzed	990226110	MW-991-026			
03/04/99	Tetrachloroethylene (PCE)		1.3	.500	UGL
03/02/99	Alkalinity		169	2.000	MGL
03/12/99	Anion Sum		7.23	.001	MEQL
03/05/99	Bicarbonate as HCO3,calculated		206	.001	MGL
03/08/99	Calcium, Total, ICAP		60.6	1.000	MGL
03/05/99	Carbonate as CO3, Calculated		1.34	.001	MGL
03/12/99	Cation Sum		6.97	.001	MEQL
02/27/99	Chloride		73	1.000	MGL
03/05/99	Iron, Total, ICAP/MS		290	******	UGL
03/01/99	Lab pH		8.0	.001	UNIT
03/08/99	Magnesium, Total, ICAP		30.1	1.000	MGL
02/27/99	Nitrate-N by IC		4.3	.100	MGL
03/08/99	Potassium, Total, ICAP		2.48	1.000	MGL
03/08/99	Sodium, Total, ICAP		32.2	1.000	MGL
03/02/99	Specific Conductance		625	4.000	UMHO
02/27/99	Sulfate		71	2.000	MGL
03/04/99	Total Dissolved Solid (TDS)		400	10.000	MGL
Analyzed	990226111	MW-991-027			
03/05/99	Bromoform		ND J	.500	UGL
03/05/99	Chloroform (Trichloromethane)		3.0	.500	UGL
03/02/99	Alkalinity		146	2.000	MGL
03/12/99	Anion Sum		4.31	.001	MEQL
03/05/99	Bicarbonate as HCO3,calculated		176	.001	MGL
03/08/99	Calcium, Total, ICAP		33.4	1.000	MGL
03/05/99	Carbonate as CO3, Calculated		4.55	.001	MGL
03/12/99	Cation Sum		4.29	.001	MEQL
02/27/99	Chloride		17	1.000	MGL
03/05/99	Iron, Total, ICAP/MS		520	******	UGL
03/01/99	Lab pH		8.6	.001	UNIT
03/08/99	Magnesium, Total, ICAP		18.0	1.000	MGL
02/27/99	Nitrate-N by IC		2.2	.100	MGL
03/08/99	Potassium, Total, ICAP		1.93	1.000	MGL
03/08/99	Sodium, Total, ICAP		25.0	1.000	MGL
03/02/99	Specific Conductance		390	4.000	UMHO
02/27/99	Sulfate		36	2.000	MGL
03/04/99	Total Dissolved Solid (TDS)		250	10.000	MGL
Analyzed	990226112	MW-991-028			
03/04/99	Tetrachloroethylene (PCE)		1.5	.500	UGL
03/02/99	Alkalinity		253	2.000	MGL
03/12/99	Anion Sum		10.7	.001	MEQL
03/05/99	Bicarbonate as HCO3,calculated		308	.001	MGL
03/08/99	Calcium, Total, ICAP		115	1.000	MGL
03/05/99	Carbonate as CO3, Calculated		1.00	.001	MGL
03/12/99	Cation Sum		10.5	.001	MEQL

02/27/99	Chloride	95	1.000	MGL
03/05/99	Iron, Total, ICAP/MS	1500	******	UGL
03/01/99	Lab pH	7.7	.001	UNIT
03/08/99	Magnesium, Total, ICAP	40.1	1.000	MGL
02/27/99	Nitrate-N by IC	9.9	.100	MGL
03/08/99	Potassium, Total, ICAP	2.79	1.000	MGL
03/08/99	Sodium, Total, ICAP	31.3	1.000	MGL
03/02/99	Specific Conductance	945	4.000	UMHO
02/27/99	Sulfate	110	2.000	MGL
03/04/99	Total Dissolved Solid (TDS)	620	10.000	MGL
Analyzed	990226113 MW-991-029			
03/04/99	Trichloroethylene (TCE)	0.6	.500	UGL
03/02/99	Alkalinity	166	2.000	MGL
03/12/99	Anion Sum	5.45	.001	MEQL
03/05/99	Bicarbonate as HCO3,calculated	202	.001	MGL
03/08/99	Calcium, Total, ICAP	58.3	1.000	MGL
03/05/99	Carbonate as CO3, Calculated	0.131	.001	MGL
03/12/99	Cation Sum	5.37	.001	MEQL
02/27/99	Chloride	25	1.000	MGL
03/05/99	Iron, Total, ICAP/MS	910	******	UGL
03/01/99	Lab pH	7.0	.001	UNIT
03/08/99	Magnesium, Total, ICAP	21.1	1.000	MGL
02/27/99	Nitrate-N by IC	4.8	.100	MGL
03/08/99	Potassium, Total, ICAP	1.74	1.000	MGL
03/08/99	Sodium, Total, ICAP	15.5	1.000	MGL
03/02/99	Specific Conductance	460	4.000	UMHO
02/27/99	Sulfate	52	2.000	MGL
03/04/99	Total Dissolved Solid (TDS)	300	10.000	MGL
Analyzed	990226114 MW-991-030			
03/02/99	Alkalinity	119	2.000	MGL
03/12/99	Anion Sum	2.90	.001	MEQL
03/05/99	Bicarbonate as HCO3,calculated	145	.001	MGL
03/08/99	Calcium, Total, ICAP	31.5	1.000	MGL
03/05/99	Carbonate as CO3, Calculated	0.375	.001	MGL
03/12/99	Cation Sum	2.99	.001	MEQL
02/27/99	Chloride	4.4	1.000	MGL
03/10/99	Iron, Total, ICAP/MS	5700	******	UGL
03/01/99	Lab pH	7.6	.001	UNIT
03/08/99	Magnesium, Total, ICAP	10.5	1.000	MGL
02/27/99	Nitrate-N by IC	0.29	.100	MGL
03/08/99	Potassium, Total, ICAP	2.03	1.000	MGL
03/08/99	Sodium, Total, ICAP	11.4	1.000	MGL
03/02/99	Specific Conductance	255	4.000	UMHO
02/27/99	Sulfate	18	2.000	MGL
03/04/99	Total Dissolved Solid (TDS)	170	10.000	MGL

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Laboratory Report

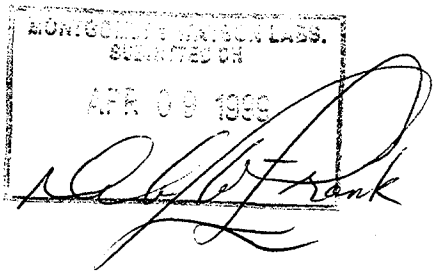
for

Foster Wheeler Environmental, Inc
611 Anton Boulevard

Suite 800

Costa Mesa , CA 92626

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



DEB* Debbie Frank

Report#: 52208
JPL

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Laboratory
Report
#52208

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

Samples Received
26-feb-1999 16:24:30

MW-991-084 (990226108) Sampled on 02/26/99

Regulated VOCs plus Lists 1&3

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
03/04/99	93303		(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
03/04/99	93303		(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
03/04/99	93303		(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
03/04/99	93303		(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
03/04/99	93303		(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
03/04/99	93303		(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
03/04/99	93303		(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
03/04/99	93303		(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
03/04/99	93303		(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
03/04/99	93303		(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
03/04/99	93303		(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
03/04/99	93303		(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
03/04/99	93303		(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
03/04/99	93303		(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
03/04/99	93303		(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
03/04/99	93303		(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
03/04/99	93303		(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
03/04/99	93303		(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
03/04/99	93303		(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
03/04/99	93303		(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
03/04/99	93303		(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
03/04/99	93303		(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
03/04/99	93303		(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
03/04/99	93303		(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
03/04/99	93303		(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
03/04/99	93303		(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
03/04/99	93303		(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
03/04/99	93303		(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
03/04/99	93303		(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Laboratory Report #52208

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/04/99	93303	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/04/99	93303	(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	116	% Rec		
			(Surrogate)	4-Bromofluorobenzene	94	% Rec		
			(Surrogate)	Toluene-d8	89	% Rec		

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Laboratory
Report
#52208

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-991-085 (990226109) Sampled on 02/26/99								
03/05/99	03/05/99	93028	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	03/11/99	93355	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
03/04/99	03/05/99	92976	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	02/26/99	92718	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
03/04/99	03/05/99	92979	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
				Regulated VOCs plus Lists 1&3				
	03/04/99	93303	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/04/99	93303	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/04/99	93303	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1

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Laboratory Report #52208

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/04/99	93303	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	117	% Rec		
			(Surrogate)	4-Bromofluorobenzene	98	% Rec		

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Laboratory Report #52208

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
			(Surrogate)	Toluene-d8	85	% Rec		
MW-991-026 (990226110) Sampled on 02/26/99								
	03/02/99	92809	(ML/SM2320B)	Alkalinity	169	mg/l	2.0	1
	03/12/99		(ML/SM1040)	Anion Sum	7.23	meq/l	0.0010	1
03/05/99	03/05/99	93028	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
03/08/99	03/08/99	93076	(ML/EPA 200.7)	Calcium, Total, ICAP	60.6	mg/l	1.0	1
	03/12/99		(ML/SM1040)	Cation Sum	6.97	meq/l	0.0010	1
	02/27/99	93163	(ML/EPA 300)	Chloride	73	mg/l	1.0	1
	03/11/99	93355	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	03/05/99		(ML/SM2320B)	Carbonate as CO3, Calculated	1.34	mg/l	0.0010	1
03/04/99	03/05/99	92976	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	02/26/99	92718	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	03/02/99	92750	(ML/S2510B)	Specific Conductance	625	umho/cm	4.0	1
03/04/99	03/05/99	92977	(EPA/ML 200.8)	Iron, Total, ICAP/MS	290	ug/l	100	1
	03/05/99		(ML/SM2320B)	Bicarbonate as HCO3,calculated	206	mg/l	0.0010	1
03/08/99	03/08/99	93080	(ML/EPA 200.7)	Potassium, Total, ICAP	2.48	mg/l	1.0	1
03/08/99	03/08/99	93083	(ML/EPA 200.7)	Magnesium, Total, ICAP	30.1	mg/l	1.0	1
03/08/99	03/08/99	93086	(ML/EPA 200.7)	Sodium, Total, ICAP	32.2	mg/l	1.0	1
	02/27/99	93164	(ML/EPA 300.0)	Nitrate-N by IC	4.3	mg/l	0.10	1
03/04/99	03/05/99	92979	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	03/01/99	92811	(ML/SM 4500HB)	Lab pH	8.0	Units	0.0010	1
	02/27/99	93165	(ML/EPA 300.0)	Sulfate	71	mg/l	2.0	1
	03/04/99	92914	(ML/S2540C)	Total Dissolved Solid (TDS)	400	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	03/04/99	93303	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/04/99	93303	(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	MDL	Dilution
	03/04/99	93303	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/04/99	93303	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/04/99	93303	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/04/99	93303	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	1.3	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	115	% Rec		
			(Surrogate)	4-Bromofluorobenzene	89	% Rec		
			(Surrogate)	Toluene-d8	86	% Rec		
MW-991-027 (990226111)			**Sampled on 02/26/99**					
	03/02/99	92809	(ML/SM2320B)	Alkalinity	146	mg/l	2.0	1
	03/12/99		(ML/SM1040)	Anion Sum	4.31	meq/l	0.0010	1
03/05/99	03/05/99	93028	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
03/08/99	03/08/99	93076	(ML/EPA 200.7)	Calcium, Total, ICAP	33.4	mg/l	1.0	1
	03/12/99		(ML/SM1040)	Cation Sum	4.29	meq/l	0.0010	1
	02/27/99	93163	(ML/EPA 300)	Chloride	17	mg/l	1.0	1
	03/11/99	93355	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	03/05/99		(ML/SM2320B)	Carbonate as CO3, Calculated	4.55	mg/l	0.0010	1
03/04/99	03/05/99	92976	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	02/26/99	92718	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	03/02/99	92750	(ML/S2510B)	Specific Conductance	390	umho/cm	4.0	1
03/04/99	03/05/99	92977	(EPA/ML 200.8)	Iron, Total, ICAP/MS	520	ug/l	100	1
	03/05/99		(ML/SM2320B)	Bicarbonate as HCO3,calculated	176	mg/l	0.0010	1
03/08/99	03/08/99	93080	(ML/EPA 200.7)	Potassium, Total, ICAP	1.93	mg/l	1.0	1
03/08/99	03/08/99	93083	(ML/EPA 200.7)	Magnesium, Total, ICAP	18.0	mg/l	1.0	1
03/08/99	03/08/99	93086	(ML/EPA 200.7)	Sodium, Total, ICAP	25.0	mg/l	1.0	1

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	02/27/99	93164	(ML/EPA 300.0)	Nitrate-N by IC	2.2	mg/l	0.10	1
03/04/99	03/05/99	92979	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	03/01/99	92811	(ML/SM 4500HB)	Lab pH	8.6	Units	0.0010	1
	02/27/99	93165	(ML/EPA 300.0)	Sulfate	36	mg/l	2.0	1
	03/04/99	92914	(ML/S2540C)	Total Dissolved Solid (TDS)	250	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	03/05/99	93298	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/05/99	93298	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/05/99	93298	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Bromoform	ND J	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	MDL	Dilution
	03/05/99	93298	(ML/EPA 524.2)	Chloroform (Trichloromethane)	3.0	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	118	% Rec		
			(Surrogate)	4-Bromofluorobenzene	87	% Rec		
			(Surrogate)	Toluene-d8	83	% Rec		

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Laboratory
Report
#52208

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-991-028 (990226112) Sampled on 02/26/99								
	03/02/99	92807	(ML/SM2320B)	Alkalinity	253	mg/l	2.0	1
	03/12/99		(ML/SM1040)	Anion Sum	10.7	meq/l	0.0010	1
03/04/99	03/08/99	93112	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
03/08/99	03/08/99	93076	(ML/EPA 200.7)	Calcium, Total, ICAP	115	mg/l	1.0	1
	03/12/99		(ML/SM1040)	Cation Sum	10.5	meq/l	0.0010	1
	02/27/99	93163	(ML/EPA 300)	Chloride	95	mg/l	1.0	1
	03/11/99	93355	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	03/05/99		(ML/SM2320B)	Carbonate as CO3, Calculated	1.00	mg/l	0.0010	1
03/04/99	03/05/99	93064	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	02/26/99	92718	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	03/02/99	92750	(ML/S2510B)	Specific Conductance	945	umho/cm	4.0	1
03/04/99	03/05/99	93067	(EPA/ML 200.8)	Iron, Total, ICAP/MS	1500	ug/l	100	1
	03/05/99		(ML/SM2320B)	Bicarbonate as HCO3,calculated	308	mg/l	0.0010	1
03/08/99	03/08/99	93080	(ML/EPA 200.7)	Potassium, Total, ICAP	2.79	mg/l	1.0	1
03/08/99	03/08/99	93083	(ML/EPA 200.7)	Magnesium, Total, ICAP	40.1	mg/l	1.0	1
03/08/99	03/08/99	93086	(ML/EPA 200.7)	Sodium, Total, ICAP	31.3	mg/l	1.0	1
	02/27/99	93164	(ML/EPA 300.0)	Nitrate-N by IC	9.9	mg/l	0.10	1
03/04/99	03/05/99	93066	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	03/01/99	92806	(ML/SM 4500HB)	Lab pH	7.7	Units	0.0010	1
	02/27/99	93165	(ML/EPA 300.0)	Sulfate	110	mg/l	2.0	1
	03/04/99	92914	(ML/S2540C)	Total Dissolved Solid (TDS)	620	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	03/04/99	93303	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1

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Laboratory Report #52208

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/04/99	93303	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/04/99	93303	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/04/99	93303	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1

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Laboratory Report #52208

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/04/99	93303	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	1.5	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/04/99	93303	(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	95	% Rec		
			(Surrogate)	Toluene-d8	85	% Rec		
MW-991-029 (990226113)			**Sampled on 02/26/99**					
	03/02/99	92809	(ML/SM2320B)	Alkalinity	166	mg/l	2.0	1
	03/12/99		(ML/SM1040)	Anion Sum	5.45	meq/l	0.0010	1
03/05/99	03/05/99	93028	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
03/08/99	03/08/99	93076	(ML/EPA 200.7)	Calcium, Total, ICAP	58.3	mg/l	1.0	1
	03/12/99		(ML/SM1040)	Cation Sum	5.37	meq/l	0.0010	1
	02/27/99	93163	(ML/EPA 300)	Chloride	25	mg/l	1.0	1
	03/11/99	93355	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	03/05/99		(ML/SM2320B)	Carbonate as CO3, Calculated	0.131	mg/l	0.0010	1
03/04/99	03/05/99	92976	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	02/26/99	92718	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	03/02/99	92750	(ML/S2510B)	Specific Conductance	460	umho/cm	4.0	1
03/04/99	03/05/99	92977	(EPA/ML 200.8)	Iron, Total, ICAP/MS	910	ug/l	100	1
	03/05/99		(ML/SM2320B)	Bicarbonate as HCO3,calculated	202	mg/l	0.0010	1
03/08/99	03/08/99	93080	(ML/EPA 200.7)	Potassium, Total, ICAP	1.74	mg/l	1.0	1
03/08/99	03/08/99	93083	(ML/EPA 200.7)	Magnesium, Total, ICAP	21.1	mg/l	1.0	1
03/08/99	03/08/99	93086	(ML/EPA 200.7)	Sodium, Total, ICAP	15.5	mg/l	1.0	1
	02/27/99	93164	(ML/EPA 300.0)	Nitrate-N by IC	4.8	mg/l	0.10	1

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Laboratory Report #52208

Foster Wheeler Environmental, Inc (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
03/04/99	03/05/99	92979	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	03/01/99	92811	(ML/SM 4500HB)	Lab pH	7.0	Units	0.0010	1
	02/27/99	93165	(ML/EPA 300.0)	Sulfate	52	mg/l	2.0	1
	03/04/99	92914	(ML/S2540C)	Total Dissolved Solid (TDS)	300	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	03/04/99	93303	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/04/99	93303	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/04/99	93303	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/04/99	93303	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Trichloroethylene (TCE)	0.6	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/04/99	93303	(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	91	% Rec		
			(Surrogate)	Toluene-d8	83	% Rec		

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Laboratory Report #52208

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-991-030 (990226114) Sampled on 02/26/99								
	03/02/99	92807	(ML/SM2320B)	Alkalinity	119	mg/l	2.0	1
	03/12/99		(ML/SM1040)	Anion Sum	2.90	meq/l	0.0010	1
03/05/99	03/05/99	93028	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
03/08/99	03/08/99	93076	(ML/EPA 200.7)	Calcium, Total, ICAP	31.5	mg/l	1.0	1
	03/12/99		(ML/SM1040)	Cation Sum	2.99	meq/l	0.0010	1
	02/27/99	93163	(ML/EPA 300)	Chloride	4.4	mg/l	1.0	1
	03/11/99	93355	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	03/05/99		(ML/SM2320B)	Carbonate as CO3, Calculated	0.375	mg/l	0.0010	1
03/04/99	03/05/99	92976	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	02/26/99	92718	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	03/02/99	92750	(ML/S2510B)	Specific Conductance	255	umho/cm	4.0	1
03/04/99	03/10/99	92977	(EPA/ML 200.8)	Iron, Total, ICAP/MS	5700	ug/l	1000	10
	03/05/99		(ML/SM2320B)	Bicarbonate as HCO3,calculated	145	mg/l	0.0010	1
03/08/99	03/08/99	93080	(ML/EPA 200.7)	Potassium, Total, ICAP	2.03	mg/l	1.0	1
03/08/99	03/08/99	93083	(ML/EPA 200.7)	Magnesium, Total, ICAP	10.5	mg/l	1.0	1
03/08/99	03/08/99	93086	(ML/EPA 200.7)	Sodium, Total, ICAP	11.4	mg/l	1.0	1
	02/27/99	93164	(ML/EPA 300.0)	Nitrate-N by IC	0.29	mg/l	0.10	1
03/04/99	03/05/99	92979	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	03/01/99	92806	(ML/SM 4500HB)	Lab pH	7.6	Units	0.0010	1
	02/27/99	93165	(ML/EPA 300.0)	Sulfate	18	mg/l	2.0	1
	03/04/99	92914	(ML/S2540C)	Total Dissolved Solid (TDS)	170	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	03/04/99	93303	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/04/99	93303	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/04/99	93303	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/04/99	93303	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	n-Propylbenzene	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	MDL	Dilution
	03/04/99	93303	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/04/99	93303	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	112	% Rec		
			(Surrogate)	4-Bromofluorobenzene	94	% Rec		
			(Surrogate)	Toluene-d8	86	% Rec		

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Group Comments

(524.2) Recovery of Bromoform in the LFB analyzed on 03/05/99 was lower than 70%. The result of Bromoform in samples analyzed on 3/5/99 are biased low. See QIR-MS-99-036. Also recovery of CCL4 in the LFB is 130.2%, control limit is 70-130%. GG 3/30/99
(FE-MS) Recovery of matrix spike performed on sample# 990226112 is lower than 70-130%, due to high concentration of Fe in the spiked sample. Result of Fe in the sample is three times the spiked amount. GG 3/30/99

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Foster Wheeler Environmental, Inc

QC Batch #92718 Hexavalent chromium (Cr VI)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0226144		(0.00 - 0.00)	
LCS1	Hexavalent chromium (Cr VI)	0.050	0.0487	97.4	(78.00 - 118.00)	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.0493	98.6	(78.00 - 118.00)	1.2
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 #92750 Specific Conductance

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 99	0301256		(0.00 - 0.00)	

QC Batch #92806 Lab pH

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	lab # 99	0302128		(0.00 - 0.00)	

QC Batch #92807 Alkalinity

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0226110		(0.00 - 0.00)	
LCS1	Alkalinity	96.2	97.9	101.8	(90.00 - 110.00)	
LCS2	Alkalinity	96.2	97.5	101.4	(90.00 - 110.00)	0.41
MBLK	Alkalinity	ND				
MS	Alkalinity	96.2	89.0	92.5	(80.00 - 120.00)	
MSD	Alkalinity	96.2	89.0	92.5	(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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Foster Wheeler Environmental, Inc
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QC Batch #92809 Alkalinity

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0226110		(0.00 - 0.00)	
LCS1	Alkalinity	96.2	97.9	101.8	(90.00 - 110.00)	
LCS2	Alkalinity	96.2	97.5	101.4	(90.00 - 110.00)	0.41
MBLK	Alkalinity	ND				
MS	Alkalinity	96.2	89.0	92.5	(80.00 - 120.00)	
MSD	Alkalinity	96.2	89.0	92.5	(80.00 - 120.00)	0.00

QC Batch #92811 Lab pH

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	lab # 99	0302128		(0.00 - 0.00)	

QC Batch #92914 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 99	0302066		(0.00 - 0.00)	
LCS1	Total Dissolved Solid (TDS)	175	170	97.1	(85.00 - 115.00)	
LCS2	Total Dissolved Solid (TDS)	700	684	97.7	(85.00 - 115.00)	
MBLK	Total Dissolved Solid (TDS)	ND				

QC Batch #92976 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0224202		(0.00 - 0.00)	
LCS1	Chromium, Total, ICAP/MS	100	99	99.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	95	95.0	(85.00 - 115.00)	4.1
MBLK	Chromium, Total, ICAP/MS	ND				
MS	Chromium, Total, ICAP/MS	100	98	98.0	(70.00 - 130.00)	
MSD	Chromium, Total, ICAP/MS	100	95	95.0	(70.00 - 130.00)	3.1

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QC Batch #92977 Iron, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0224202		(0.00 - 0.00)	
LCS1	Iron, Total, ICAP/MS	500	543	108.6	(85.00 - 115.00)	
LCS2	Iron, Total, ICAP/MS	500	517	103.4	(85.00 - 115.00)	4.9
MBLK	Iron, Total, ICAP/MS	ND				
MS	Iron, Total, ICAP/MS	500	562	112.4	(70.00 - 130.00)	
MSD	Iron, Total, ICAP/MS	500	550	110.0	(70.00 - 130.00)	2.2

QC Batch #92979 Lead, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0224202		(0.00 - 0.00)	
LCS1	Lead, Total, ICAP/MS	20.0	21.6	108.0	(85.00 - 115.00)	
LCS2	Lead, Total, ICAP/MS	20.0	19.9	99.5	(85.00 - 115.00)	8.2
MBLK	Lead, Total, ICAP/MS	ND				
MS	Lead, Total, ICAP/MS	20.0	20.6	103.0	(70.00 - 130.00)	
MSD	Lead, Total, ICAP/MS	20.0	20.0	100.0	(70.00 - 130.00)	3.0

QC Batch #93028 Arsenic, Total, GF

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0224202		(0.00 - 0.00)	
LCS1	Arsenic, Total, GF	0.020	0.0195	97.5	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.0195	97.5	(85.00 - 115.00)	0.00
MBLK	Arsenic, Total, GF	ND				
MS	Arsenic, Total, GF	0.020	0.0193	96.5	(70.00 - 130.00)	
MSD	Arsenic, Total, GF	0.020	0.0192	96.0	(70.00 - 130.00)	0.52

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(continued)

QC Batch #93064 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0226112		(0.00 - 0.00)	
LCS1	Chromium, Total, ICAP/MS	100	101	101.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	102	102.0	(85.00 - 115.00)	0.99
MBLK	Chromium, Total, ICAP/MS	ND				
MS	Chromium, Total, ICAP/MS	100	95	95.0	(70.00 - 130.00)	
MSD	Chromium, Total, ICAP/MS	100	97	97.0	(70.00 - 130.00)	2.1

QC Batch #93066 Lead, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0226112		(0.00 - 0.00)	
LCS1	Lead, Total, ICAP/MS	20.0	21.0	105.0	(85.00 - 115.00)	
LCS2	Lead, Total, ICAP/MS	20.0	21.8	109.0	(85.00 - 115.00)	3.7
MBLK	Lead, Total, ICAP/MS	ND				
MS	Lead, Total, ICAP/MS	20.0	20.4	102.0	(70.00 - 130.00)	
MSD	Lead, Total, ICAP/MS	20.0	19.4	97.0	(70.00 - 130.00)	5.0

QC Batch #93067 Iron, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0226112		(0.00 - 0.00)	
LCS1	Iron, Total, ICAP/MS	500	496	99.2	(85.00 - 115.00)	
LCS2	Iron, Total, ICAP/MS	500	532	106.4	(85.00 - 115.00)	7.0
MBLK	Iron, Total, ICAP/MS	ND				
MS	Iron, Total, ICAP/MS	500	300	60.0	(70.00 - 130.00)	
MSD	Iron, Total, ICAP/MS	500	527	105.4	(70.00 - 130.00)	55

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QC Batch #93076 Calcium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0224201		(0.00 - 0.00)	
LCS1	Calcium, Total, ICAP	50	47.8	95.6	(85.00 - 115.00)	
LCS2	Calcium, Total, ICAP	50	48.0	96.0	(85.00 - 115.00)	0.42
MBLK	Calcium, Total, ICAP	ND				
MS	Calcium, Total, ICAP	50	50.6	101.2	(70.00 - 130.00)	
MSD	Calcium, Total, ICAP	50	52.1	104.2	(70.00 - 130.00)	2.9

QC Batch #93080 Potassium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0224201		(0.00 - 0.00)	
LCS1	Potassium, Total, ICAP	20	19.4	97.0	(80.00 - 110.00)	
LCS2	Potassium, Total, ICAP	20	19.5	97.5	(80.00 - 110.00)	0.51
MBLK	Potassium, Total, ICAP	ND				
MS	Potassium, Total, ICAP	20	19.3	96.5	(80.00 - 120.00)	
MSD	Potassium, Total, ICAP	20	19.6	98.0	(80.00 - 120.00)	1.5

QC Batch #93083 Magnesium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0224201		(0.00 - 0.00)	
LCS1	Magnesium, Total, ICAP	20	19.7	98.5	(85.00 - 115.00)	
LCS2	Magnesium, Total, ICAP	20	19.8	99.0	(85.00 - 115.00)	0.51
MBLK	Magnesium, Total, ICAP	ND				
MS	Magnesium, Total, ICAP	20	19.7	98.5	(70.00 - 130.00)	
MSD	Magnesium, Total, ICAP	20	20.2	101.0	(70.00 - 130.00)	2.5

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QC Batch #93086 Sodium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0224201		(0.00 - 0.00)	
LCS1	Sodium, Total, ICAP	50	49.3	98.6	(85.00 - 115.00)	
LCS2	Sodium, Total, ICAP	50	49.7	99.4	(85.00 - 115.00)	0.81
MBLK	Sodium, Total, ICAP	ND				
MS	Sodium, Total, ICAP	50	47.0	94.0	(70.00 - 130.00)	
MSD	Sodium, Total, ICAP	50	47.8	95.6	(70.00 - 130.00)	1.7

QC Batch #93112 Arsenic, Total, GF

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0226112		(0.00 - 0.00)	
LCS1	Arsenic, Total, GF	0.020	0.0201	100.5	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.0199	99.5	(85.00 - 115.00)	1.00
MBLK	Arsenic, Total, GF	ND				
MS	Arsenic, Total, GF	0.020	0.0201	100.5	(70.00 - 130.00)	
MSD	Arsenic, Total, GF	0.020	0.0199	99.5	(70.00 - 130.00)	1.00

QC Batch #93163 Chloride

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0226110		(0.00 - 0.00)	
LCS1	Chloride	25	25.1	100.4	(90.00 - 110.00)	
LCS2	Chloride	25	25.1	100.4	(90.00 - 110.00)	0.00
MBLK	Chloride	ND				
MS	Chloride	25	25.5	102.0	(80.00 - 120.00)	
MSD	Chloride	25	25.5	102.0	(80.00 - 120.00)	0.00

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QC Batch #93164 Nitrate-N by IC

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0226110		(0.00 - 0.00)	
LCS1	Nitrate-N by IC	2.5	2.55	102.0	(90.00 - 110.00)	
LCS2	Nitrate-N by IC	2.5	2.54	101.6	(90.00 - 110.00)	0.39
MBLK	Nitrate-N by IC	ND				
MS	Nitrate-N by IC	2.5	2.48	99.2	(80.00 - 120.00)	
MSD	Nitrate-N by IC	2.5	2.36	94.4	(80.00 - 120.00)	5.0

QC Batch #93165 Sulfate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0226110		(0.00 - 0.00)	
LCS1	Sulfate	50	50.1	100.2	(90.00 - 110.00)	
LCS2	Sulfate	50	50.1	100.2	(90.00 - 110.00)	0.00
MBLK	Sulfate	ND				
MS	Sulfate	50	52.0	104.0	(80.00 - 120.00)	
MSD	Sulfate	50	49.9	99.8	(80.00 - 120.00)	4.1

QC Batch #93298 Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	4	4.60	115.0	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	3.91	97.8	(70.00 - 130.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	4.28	107.0	(70.00 - 130.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	4.43	110.8	(70.00 - 130.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	5.04	126.0	(70.00 - 130.00)	

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MBLK	1,1-Dichloroethylene	ND				
MS	1,1-Dichloroethylene	4	4.12	103.0	(70.00 - 130.00)	
MSD	1,1-Dichloroethylene	4	3.11	77.8	(70.00 - 130.00)	28
MBLK	1,1-Dichloropropene	ND				
MBLK	1,2,3-Trichlorobenzene	ND				
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	4	3.79	94.8	(70.00 - 130.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	4	4.84	121.0	(70.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	4	4.69	117.3	(70.00 - 130.00)	
MBLK	1,2-Dichloropropane	ND				
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	8	7.55	94.4	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
LCS1	p-Dichlorobenzene (1,4-DCB)	4	3.59	89.8	(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	0303079		(0.00 - 0.00)	
LCS1	Benzene	4	4.69	117.3	(70.00 - 130.00)	
MBLK	Benzene	ND				
MS	Benzene	4	4.02	100.5	(70.00 - 130.00)	
MSD	Benzene	4	3.70	92.5	(70.00 - 130.00)	8.3
MBLK	Bromobenzene	ND				
MBLK	Bromomethane (Methyl Bromide)	ND				
LCS1	cis-1,2-Dichloroethylene	4	4.80	120.0	(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	3.87	96.8	(70.00 - 130.00)	
MSD	Chlorobenzene	4	3.82	95.5	(70.00 - 130.00)	1.3

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LCS1	Carbon Tetrachloride	4	5.21	130.2	(70.00 - 130.00)
MBLK	Carbon Tetrachloride	ND			
MBLK	cis-1,3-Dichloropropene	ND			
LCS1	Bromoform	5	3.01	60.2	(70.00 - 130.00)
MBLK	Bromoform	ND			
LCS1	Chloroform (Trichloromethane)	4	4.60	115.0	(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	3.98	99.5	(70.00 - 130.00)
MBLK	Bromodichloromethane	ND			
LCS1	Dichloromethane	4	4.63	115.8	(70.00 - 130.00)
MBLK	Dichloromethane	ND			
LCS1	Ethyl benzene	4	4.07	101.8	(70.00 - 130.00)
MBLK	Ethyl benzene	ND			
MBLK	Dichlorodifluoromethane	ND			
LCS1	Fluorotrichloromethane-Freon11	2	2.02	101.0	(70.00 - 130.00)
MBLK	Fluorotrichloromethane-Freon11	ND			
MBLK	Hexachlorobutadiene	ND			
MBLK	Isopropylbenzene	ND			
MBLK	m-Dichlorobenzene (1,3-DCB)	ND			
LCS1	m,p-Xylenes	8	8.00	100.0	(70.00 - 130.00)
MBLK	m,p-Xylenes	ND			
MBLK	Naphthalene	ND			
MBLK	n-Butylbenzene	ND			
MBLK	n-Propylbenzene	ND			
LCS1	o-Xylene	4	3.94	98.5	(70.00 - 130.00)
MBLK	o-Xylene	ND			
LCS1	o-Dichlorobenzene (1,2-DCB)	4	4.15	103.8	(70.00 - 130.00)
MBLK	o-Dichlorobenzene (1,2-DCB)	ND			
LCS1	Tetrachloroethylene (PCE)	4	3.87	96.8	(70.00 - 130.00)
MBLK	Tetrachloroethylene (PCE)	ND			
MBLK	p-Isopropyltoluene	ND			

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MBLK	sec-Butylbenzene	ND				
LCS1	Styrene	4	3.74	93.5	(70.00 - 130.00)	
MBLK	Styrene	ND				
LCS1	1,2-dichloroethane-d4	100	110	110.0	(80.00 - 120.00)	
MBLK	1,2-dichloroethane-d4	100	114	114.0		
MS	1,2-dichloroethane-d4	100	105	105.0	(80.00 - 120.00)	
MSD	1,2-dichloroethane-d4	100	106	106.0	(80.00 - 120.00)	0.95
LCS1	Toluene-d8	100	94.6	94.6	(80.00 - 120.00)	
MBLK	Toluene-d8	100	85.8	85.8		
MS	Toluene-d8	100	96.3	96.3	(80.00 - 120.00)	
MSD	Toluene-d8	100	99.2	99.2	(80.00 - 120.00)	3.0
LCS1	4-Bromofluorobenzene	100	92.2	92.2	(80.00 - 120.00)	
MBLK	4-Bromofluorobenzene	100	89.0	89.0		
MS	4-Bromofluorobenzene	100	105	105.0	(80.00 - 120.00)	
MSD	4-Bromofluorobenzene	100	101	101.0	(80.00 - 120.00)	3.9
LCS1	trans-1,2-Dichloroethylene	4	5.00	125.0	(70.00 - 130.00)	
MBLK	trans-1,2-Dichloroethylene	ND				
MBLK	tert-Butylbenzene	ND				
LCS1	Trichloroethylene (TCE)	4	4.24	106.0	(70.00 - 130.00)	
MBLK	Trichloroethylene (TCE)	ND				
MS	Trichloroethylene (TCE)	4	4.79	119.8	(70.00 - 130.00)	
MSD	Trichloroethylene (TCE)	4	4.72	118.0	(70.00 - 130.00)	1.5
LCS1	Trichlorotrifluoroethane(Freon	2	2.05	102.5	(70.00 - 130.00)	
MBLK	Trichlorotrifluoroethane(Freon	ND				
MBLK	trans-1,3-Dichloropropene	ND				
LCS1	Toluene	4	4.27	106.7	(70.00 - 130.00)	
MBLK	Toluene	ND				
MS	Toluene	4	3.95	98.8	(70.00 - 130.00)	
MSD	Toluene	4	3.80	95.0	(70.00 - 130.00)	3.9
LCS1	Vinyl chloride (VC)	2	1.88	94.0	(70.00 - 130.00)	
MBLK	Vinyl chloride (VC)	ND				

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QC Batch #93303 — Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	4	4.16	104.0	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	3.44	86.0	(70.00 - 130.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	3.62	90.5	(70.00 - 130.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	3.95	98.8	(70.00 - 130.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	4.63	115.8	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MS	1,1-Dichloroethylene	4	4.69	117.3	(70.00 - 130.00)	
MSD	1,1-Dichloroethylene	4	4.59	114.8	(70.00 - 130.00)	2.2
MBLK	1,1-Dichloropropene	ND				
MBLK	1,2,3-Trichlorobenzene	ND				
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	4	3.48	87.0	(70.00 - 130.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	4	4.12	103.0	(70.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	4	4.42	110.5	(70.00 - 130.00)	
MBLK	1,2-Dichloropropane	ND				
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	8	6.52	81.5	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
LCS1	p-Dichlorobenzene (1,4-DCB)	4	3.55	88.8	(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	0224202		(0.00 - 0.00)	
LCS1	Benzene	4	4.36	109.0	(70.00 - 130.00)	
MBLK	Benzene	ND				
MS	Benzene	4	4.47	111.8	(70.00 - 130.00)	
MSD	Benzene	4	4.28	107.0	(70.00 - 130.00)	4.3
MBLK	Bromobenzene	ND				
MBLK	Bromomethane (Methyl Bromide)	ND				
LCS1	cis-1,2-Dichloroethylene	4	4.40	110.0	(70.00 - 130.00)	
MBLK	cis-1,2-Dichloroethylene	ND				
LCS1	Chlorobenzene	4	3.61	90.2	(70.00 - 130.00)	
MBLK	Chlorobenzene	ND				
MS	Chlorobenzene	4	3.75	93.8	(70.00 - 130.00)	
MSD	Chlorobenzene	4	3.61	90.2	(70.00 - 130.00)	3.8
LCS1	Carbon Tetrachloride	4	4.58	114.5	(70.00 - 130.00)	
MBLK	Carbon Tetrachloride	ND				
MBLK	cis-1,3-Dichloropropene	ND				
LCS1	Bromoform	8	5.81	72.6	(70.00 - 130.00)	
MBLK	Bromoform	ND				
LCS1	Chloroform (Trichloromethane)	4	4.27	106.7	(70.00 - 130.00)	
MBLK	Chloroform (Trichloromethane)	ND				
MBLK	Bromochloromethane	ND				
MBLK	Chloroethane	ND				
MBLK	Chloromethane(Methyl Chloride)	ND				
LCS1	Chlorodibromomethane	4	3.05	76.2	(70.00 - 130.00)	
MBLK	Chlorodibromomethane	ND				
MBLK	Dibromomethane	ND				
LCS1	Bromodichloromethane	4	3.53	88.2	(70.00 - 130.00)	
MBLK	Bromodichloromethane	ND				
LCS1	Dichloromethane	4	4.13	103.2	(70.00 - 130.00)	
MBLK	Dichloromethane	ND				
LCS1	Ethyl benzene	4	3.57	89.2	(70.00 - 130.00)	
MBLK	Ethyl benzene	ND				
MBLK	Dichlorodifluoromethane	ND				
LCS1	Fluorotrichloromethane-Freon11	2	1.83	91.5	(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	7.27	90.9	(70.00 - 130.00)	
MBLK	m,p-Xylenes	ND				
MBLK	Naphthalene	ND				
MBLK	n-Butylbenzene	ND				
MBLK	n-Propylbenzene	ND				
LCS1	o-Xylene	4	3.55	88.8	(70.00 - 130.00)	
MBLK	o-Xylene	ND				
LCS1	o-Dichlorobenzene (1,2-DCB)	4	3.86	96.5	(70.00 - 130.00)	
MBLK	o-Dichlorobenzene (1,2-DCB)	ND				
LCS1	Tetrachloroethylene (PCE)	4	3.66	91.5	(70.00 - 130.00)	
MBLK	Tetrachloroethylene (PCE)	ND				
MBLK	p-Isopropyltoluene	ND				
MBLK	sec-Butylbenzene	ND				
LCS1	Styrene	4	3.32	83.0	(70.00 - 130.00)	
MBLK	Styrene	ND				
LCS1	1,2-dichloroethane-d4	100	104	104.0	(80.00 - 120.00)	
MBLK	1,2-dichloroethane-d4	100	105	105.0		
MS	1,2-dichloroethane-d4	100	109	109.0	(80.00 - 120.00)	
MSD	1,2-dichloroethane-d4	100	104	104.0	(80.00 - 120.00)	4.7
LCS1	Toluene-d8	100	90	90.0	(80.00 - 120.00)	
MBLK	Toluene-d8	100	91.0	91.0		
MS	Toluene-d8	100	91.5	91.5	(80.00 - 120.00)	
MSD	Toluene-d8	100	91.2	91.2	(80.00 - 120.00)	0.33
LCS1	4-Bromofluorobenzene	100	98	98.0	(80.00 - 120.00)	
MBLK	4-Bromofluorobenzene	100	93.6	93.6		
MS	4-Bromofluorobenzene	100	93.4	93.4	(80.00 - 120.00)	
MSD	4-Bromofluorobenzene	100	97.5	97.5	(80.00 - 120.00)	4.3
LCS1	trans-1,2-Dichloroethylene	4	4.72	118.0	(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	4.45	111.2	(70.00 - 130.00)	
MSD	Trichloroethylene (TCE)	4	3.94	98.5	(70.00 - 130.00)	12

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LCS1	Trichlorotrifluoroethane(Freon	2	2.01	100.5	(70.00 - 130.00)	
MBLK	Trichlorotrifluoroethane(Freon	ND				
MBLK	trans-1,3-Dichloropropene	ND				
LCS1	Toluene	4	3.94	98.5	(70.00 - 130.00)	
MBLK	Toluene	ND				
MS	Toluene	4	4.02	100.5	(70.00 - 130.00)	
MSD	Toluene	4	3.78	94.5	(70.00 - 130.00)	6.2
LCS1	Vinyl chloride (VC)	2	2.04	102.0	(70.00 - 130.00)	
MBLK	Vinyl chloride (VC)	ND				

QC Batch #93355 Perchlorate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0226110		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	19.2	96.0	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	19.1	95.5	(90.00 - 110.00)	0.52
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	20.7	103.5	(75.00 - 125.00)	
MSD	Perchlorate	20.0	22.5	112.5	(75.00 - 125.00)	8.3

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MONTGOMERY WATSON LABORATORIES

Quality Environmental Analysis

A division of Montgomery Watson Americas, Inc.

April 9, 1999

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

Attention: Mark Cutler

Re: Report # 52247 (MW-991-086, MW-991-087, MW-991-050 MW-991-051, MW-991-052, MW-991-053, MW-991-054, MW -991-055)

Dear Mark,

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

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

(VOC) The Internal Standard (IS) #3 1,2-Diclorobenzene-d4 recovered below the QC acceptance limits in these samples. Any target analytes quantified off this IS will contain a high bias to the result. These samples are Non Detect, ND, for all analytes quantified off this IS. The impact is minimal. The following are quantified off of IS#3:

1,2-Dichlorobenzene	n-butylbenzene
1,2,4-Trichlorobenzene	Naphthalene
1,2,3-Trichlorobenzene	Hexachlorobutadiene

The surrogate 1,2-Dichloroethane-d4 (1,2-DCA) recovered at 123 in sample ID MW-991-052, which is above the acceptance criteria. The results associated with this surrogate may contain a high bias. This sample is ND for 1,2-DCA.

The surrogate Toluene-d8 recovered at 76% in MW-991-051, which is below the MWL internal acceptance criteria of 80-120% for this surrogate. This surrogate is not required per the QAPP. Results are reported without qualification in the HC report.

QC batch 93298: The LCS for Bromoform recovered at 60.2, which is below the acceptance criteria of 70-130. The samples associated with this QC batch are ND with a low bias for this compound and are flagged with a J.

The LCS for Carbon Tetrachloride recovered above acceptance criteria of 70-130, at 130.2%. Samples with Carbon Tetrachloride reported may contain a high bias to the reported result.

A re-analysis was attempted within the HT of 7 days, but the instrument failed to acquire the data thus the run was not successful. Qualified results are reported from the run within HT.

HT MW-991-086 and -087 were analyzed 1 day outside the QAPP HT of 7 days, but within the EPA HT of 14 days for preserved samples. An analysis was attempted within the HT of 7 days, but the instrument failed to acquire the data thus the run was not successful. These samples contain the required HCL preservative to meet the EPA criterion and were analyzed on the 8th day.

(Fe) The MS for Iron by 200.8 does not meet acceptance criteria of ±30, at 60%. RPD of the MS/MSD does not meet acceptance criteria. A sample not reported on this report was used for the

Laboratory
555 East Walnut Street
Pasadena, California 91101
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Southwest Service Center
4820 South Mill Avenue - Suite 202
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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

MS/MSD. The blank and the LCS pair are acceptable. The results for these samples are reported without qualifications. QC batch 93067

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

Method blanks with compounds detected:
None

Other Comments:
Carbon Tetrachloride was detected in sample ID: MW-991-050, -051, -052, -053, -054
Chloroform was detected in sample ID: MW-991-050, -051, -052, -053, -054
Perchlorate was detected in sample ID: MW-991-051, -053, -054

TIC's:
None

Method Variance:
None

Sincerely,

Debbie Frank
Project Manager

cc: Judy Novelly (JPL)

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

ACKNOWLEDGMENT OF SAMPLES RECEIVED

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

Customer Code: ENSERCH
PO#: Sub PO#007618-0005-0001
Group#: 52247
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

The following samples were received from you on 03/01/99. 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
990301249	MW-991-086	@EBASVOA	Water	03/01/99
990301250	MW-991-087	@EBASVOA AS-EBAS CR-EBAS PB-EBAS CR-VI CLO4	Water	03/01/99
990301251	MW-991-050	@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	03/01/99
990301252	MW-991-051	@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	03/01/99
990301253	MW-991-052	@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	03/01/99
990301254	MW-991-053	@EBASVOA AS-EBAS CR-EBAS PB-EBAS CR-VI CLO4	Water	03/01/99
990301255	MW-991-054	@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	03/01/99
990301256	MW-991-055	@EBASVOA CR-VI PB-EBAS CR-EBAS AS-EBAS TDS CATION1 ANION1 PH EC HCO3 CO3 ALK NO3 SO4 CL FE-MS	Water	03/01/99

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

Sample#	Sample Id	Matrix	Sample Date
	Tests Scheduled		
990301256	MW-991-055 (con't)		
	K NA MG CA CLO4		

Test Acronym Description

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

NUMBER 1239

52247

TEMP = 9-17
REG ICE STILL O.K.

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

PROJECT: JPL	OFS NO.: 1572 0268
PROJECT ADDRESS: 4800 OAK GROVE DR. PASADENA CA	
SAMPLER (Name): J. BRENNER	SAMPLER (Signature): J. B—
LABORATORY: MONTGOMERY WATSON LABS	
REPORTS TO BE SENT TO: MR. MARK CUTLER	

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

TIME REQUIRED: NORMAL ☒ ____ DAYS RUSH ☐ ____ DAYS

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL: WATER	SOIL	OTHER (Describe)	VOCs (524.2)	Total As, Cr, Pb (Lead/...)	Major Anions + TDS	Hex Cr	ClO4	OC ... Cr				
MW 991-086	0930	3/1/99	2	2x40ml	X			X									
MW 991-057	1330		5	2x40ml 1x250ml 2x125ml	X			X	X		X	X					
MW 991-050	0905		6	2x40ml 1x125ml 2x125ml 1x250ml	X			X	X	X	X	X					
MW 991-051	1010		6	↓	X			X	X	X	X	X					
MW 991-052	1115		6	↓	X			X	X	X	X	X					
MW 991-053	1210		5	2x40ml 1x125ml 2x125ml	X			X	X		X	X					
MW 991-054	1225		6	2x40ml 1x125ml 2x125ml 1x250ml	X			X	X	X	X	X					
MW 991-055	1445		6	↓	X			X	X	X	X	X	X				

LABORATORY INSTRUCTIONS/COMMENTS

LEVEL IV QA/QC

RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)	RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)
Robert J. F—	3-1-99	M—			
COMPANY: Foster-Wheeler	TIME: 4:30	COMPANY: M.W.	COMPANY	TIME	COMPANY

F-2

SH... G COPY

MONTGOMERY LABORATORIES COOLER RECEIPT FORM

PROJECT: ENSERCH Date Received: 3-1-99

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: 3-1-99
by (print) M. DE LUESA (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: 4, 2 @ EACH SIDE
   If Yes, enter the following: seal date: 3-1-99, seal name: RF

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 → BUT CLIENT DI NO

7. Was project identifiable from custody papers? (Yes) No

8. Have designated person(s) initial to acknowledge receipt: MLD (date) 3-1-99

Receipt app. by Supv. 3/3

B. LOG-IN PHASE: Date samples were logged in: 3-1-99 by:
(print) M. DE LUESA (sign) [signature]

9. Describe packing:

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

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

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

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

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

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

16. Were correct preservatives used when required? (Yes) No

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

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

19. Was Client Services informed of problems? Yes No

QUALITY INVESTIGATION REPORT

QIR No. MS-99-036

Analysis Date: 3-05-99

Analysis: 524.2 MSC 3/30/99

Extraction Date: —

Matrix: Water

Analyst: Cecilia Lee

Instrument ID: GCMS-H

SAMPLES IMPACTED

Lab #	Client ID	Client Name
990226111	Ensech	
~~990226112~~		
990303001	WRD	
002		
003		
~~004~~		
0061 005		

Lab #	Client ID	Client Name
990301251	Ensech	
990301252		
990301253		
990301254		
990301255		
990301256		

Brief Description: (include reason for non-compliance)

Bromoform in the LFB is 60%, This is lower than acceptal Limit of 70-130%. The Results for Bromoform in the above Samples are going to be biased Low.
Also recovery of CCly in the LFB is 130.2%, control

Action Taken: Limit is 70-130%. The Bromoform percent recovery was miscalculated by analyst to be 80%, but during data review by supervisor the error in calculation was corrected to be 60%. By this time Samples were past Holding time

Impact on Data Quality: Corrective action was not possible.

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

Other:

Annotation: Report was annotated.

Client Contact: Mssg M. Cutler mssg 3/30/99 - Data should be flagged J on Email?
WRD - Report and Annotate as above

Extraction: —

Analyst: Cecilia Lee Date: 3-30-99

Group Leader: [illegible] Date: 3-30-99

QA Coordinator: [illegible] Date: 3/30/99

Project Manager: [illegible] Date: 3/30/99 4/7/99

L

KML Debon

QUALITY INVESTIGATION REPORT

QIR No. MS-99-028

Analysis Date: 3/5/99

Analysis: EPA 524 (@EBASVOA)

Extraction Date: NA

Matrix: ↑ GCMS-H / ↓ water (COL)

Analyst: Cecilia Lei

Instrument ID:

SAMPLES IMPACTED

Lab #	Client ID	Client Name	Lab #	Client ID	Client Name
9903012 51	MW-991-050	ENSerch (Foster Wheeler)	9903012 54	MW-991-053	ENSerch (Foster Wheeler)
252	051				
253	052				
255	054 055				
256					

Brief Description: (include reason for non-compliance)

① Internal standard # 3 (1,2-Dichlorobenzene-d4) recovered below 70% in the samples above.

② 1,2-DCA-d4, (a surrogate) recovered at 123% (above QC limit 80-120%) in sample MW-991-052

③ Toluene-d8 (a surrogate) recovered at 76% (below QC limit 80-120) in MW-05

Action Taken: Samples were re-analyzed on 3/8/99 but data was lost because analyst forgot to enter samples into data system for analysis

Impact on Data Quality: Compounds quantitated off IS # 3 were all ND.

1,2-Dichlorobenzene
n-Butylbenzene
1,2,4-Trichlorobenzene
Naphthalene
Hexachlorobutadiene
1,2,3-Trichlorobenzene

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

Other:

Annotation: ~~Instrument failed to acquire~~ Covered in Case Narrative

Client Contact: D23 M. Cutler 3/24/99 ok to report from Original Run w/ annotation

Extraction:	NA	Date:	
Analyst:	Cecilia Lei	Date:	3/9/99
Group Leader:		Date:	3/9/99
QA Coordinator:	Nida Cox	Date:	3/30/99
Project Manager:		Date:	3/30/99

Report Summary of positive results, PR52247

			Result	MDL	UNITS
Analyzed	990301249	MW-991-086			
Analyzed	990301250	MW-991-087			
Analyzed	990301251	MW-991-050			
03/05/99	Bromoform		ND J	.500	UGL
03/05/99	Carbon Tetrachloride		1.3	.500	UGL
03/05/99	Chloroform (Trichloromethane)		0.7	.500	UGL
03/02/99	Alkalinity		169	2.000	MGL
03/12/99	Anion Sum		4.24	.001	MEQL
03/05/99	Bicarbonate as HCO3,calculated		205	.001	MGL
03/08/99	Calcium, Total, ICAP		38.0	1.000	MGL
03/05/99	Carbonate as CO3, Calculated		1.68	.001	MGL
03/12/99	Cation Sum		4.33	.001	MEQL
03/03/99	Chloride		14	1.000	MGL
03/05/99	Iron, Total, ICAP/MS		170	******	UGL
03/02/99	Lab pH		8.1	.001	UNIT
03/08/99	Magnesium, Total, ICAP		10.7	1.000	MGL
03/03/99	Nitrate-N by IC		1.0	.100	MGL
03/08/99	Potassium, Total, ICAP		1.92	1.000	MGL
03/08/99	Sodium, Total, ICAP		34.6	1.000	MGL
03/02/99	Specific Conductance		385	4.000	UMHO
03/03/99	Sulfate		19	2.000	MGL
03/04/99	Total Dissolved Solid (TDS)		240	10.000	MGL
Analyzed	990301252	MW-991-051			
03/05/99	Bromoform		ND J	.500	UGL
03/05/99	Carbon Tetrachloride		4.5	.500	UGL
03/05/99	Chloroform (Trichloromethane)		1.2	.500	UGL
03/02/99	Alkalinity		186	2.000	MGL
03/12/99	Anion Sum		4.91	.001	MEQL
03/05/99	Bicarbonate as HCO3,calculated		226	.001	MGL
03/08/99	Calcium, Total, ICAP		56.2	1.000	MGL
03/05/99	Carbonate as CO3, Calculated		1.17	.001	MGL
03/12/99	Cation Sum		5.04	.001	MEQL
03/03/99	Chloride		15	1.000	MGL
03/05/99	Iron, Total, ICAP/MS		180	******	UGL
03/02/99	Lab pH		7.9	.001	UNIT
03/08/99	Magnesium, Total, ICAP		14.3	1.000	MGL
03/03/99	Nitrate-N by IC		1.4	.100	MGL
03/15/99	Perchlorate		7.0	4.000	UGL
03/08/99	Potassium, Total, ICAP		2.19	1.000	MGL
03/08/99	Sodium, Total, ICAP		22.9	1.000	MGL
03/02/99	Specific Conductance		450	4.000	UMHO
03/03/99	Sulfate		32	2.000	MGL
03/04/99	Total Dissolved Solid (TDS)		280	10.000	MGL
Analyzed	990301253	MW-991-052			
03/05/99	Bromoform		ND J	.500	UGL
03/05/99	Carbon Tetrachloride		23	.500	UGL
03/05/99	Chloroform (Trichloromethane)		4.5	.500	UGL

03/02/99	Alkalinity	160	2.000	MGL
03/12/99	Anion Sum	4.56	.001	MEQL
03/05/99	Bicarbonate as HCO3,calculated	195	.001	MGL
03/08/99	Calcium, Total, ICAP	43.4	1.000	MGL
03/05/99	Carbonate as CO3, Calculated	1.60	.001	MGL
03/12/99	Cation Sum	4.62	.001	MEQL
03/03/99	Chloride	19	1.000	MGL
03/05/99	Iron, Total, ICAP/MS	540	******	UGL
03/02/99	Lab pH	8.1	.001	UNIT
03/08/99	Magnesium, Total, ICAP	15.6	1.000	MGL
03/03/99	Nitrate-N by IC	0.21	.100	MGL
03/08/99	Potassium, Total, ICAP	2.79	1.000	MGL
03/08/99	Sodium, Total, ICAP	25.1	1.000	MGL
03/02/99	Specific Conductance	420	4.000	UMHO
03/03/99	Sulfate	39	2.000	MGL
03/04/99	Total Dissolved Solid (TDS)	260	10.000	MGL
Analyzed	990301254 MW-991-053			
03/05/99	Bromoform	ND J	.500	UGL
03/05/99	Carbon Tetrachloride	1.4	.500	UGL
03/05/99	Chloroform (Trichloromethane)	1.0	.500	UGL
03/15/99	Perchlorate	4.6	4.000	UGL
Analyzed	990301255 MW-991-054			
03/05/99	Bromoform	ND J	.500	UGL
03/05/99	Carbon Tetrachloride	1.3	.500	UGL
03/05/99	Chloroform (Trichloromethane)	0.9	.500	UGL
03/02/99	Alkalinity	189	2.000	MGL
03/12/99	Anion Sum	5.24	.001	MEQL
03/05/99	Bicarbonate as HCO3,calculated	230	.001	MGL
03/08/99	Calcium, Total, ICAP	55.0	1.000	MGL
03/05/99	Carbonate as CO3, Calculated	0.749	.001	MGL
03/12/99	Cation Sum	5.34	.001	MEQL
03/03/99	Chloride	15	1.000	MGL
03/05/99	Iron, Total, ICAP/MS	240	******	UGL
03/02/99	Lab pH	7.7	.001	UNIT
03/08/99	Magnesium, Total, ICAP	17.8	1.000	MGL
03/03/99	Nitrate-N by IC	2.0	.100	MGL
03/15/99	Perchlorate	4.1	4.000	UGL
03/08/99	Potassium, Total, ICAP	3.02	1.000	MGL
03/08/99	Sodium, Total, ICAP	24.2	1.000	MGL
03/02/99	Specific Conductance	465	4.000	UMHO
03/03/99	Sulfate	43	2.000	MGL
03/08/99	Total Dissolved Solid (TDS)	290	10.000	MGL
Analyzed	990301256 MW-991-055			
03/05/99	Bromoform	ND J	.500	UGL
03/02/99	Alkalinity	142	2.000	MGL
03/12/99	Anion Sum	3.73	.001	MEQL
03/05/99	Bicarbonate as HCO3,calculated	173	.001	MGL
03/08/99	Calcium, Total, ICAP	34.5	1.000	MGL
03/05/99	Carbonate as CO3, Calculated	0.282	.001	MGL
03/12/99	Cation Sum	3.80	.001	MEQL
03/03/99	Chloride	10	1.000	MGL
03/05/99	Iron, Total, ICAP/MS	890	******	UGL
03/02/99	Lab pH	7.4	.001	UNIT
03/08/99	Magnesium, Total, ICAP	14.4	1.000	MGL

03/03/99	Nitrate-N by IC	0.92	.100	MGL
03/08/99	Potassium, Total, ICAP	2.73	1.000	MGL
03/08/99	Sodium, Total, ICAP	18.9	1.000	MGL
03/02/99	Specific Conductance	340	4.000	UMHO
03/03/99	Sulfate	26	2.000	MGL
03/08/99	Total Dissolved Solid (TDS)	210	10.000	MGL

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

Laboratory Report

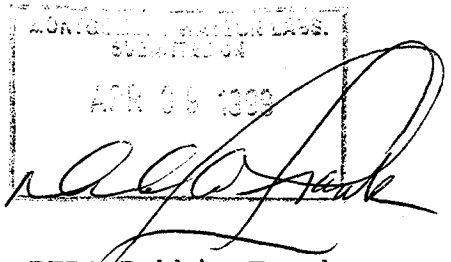
for

Foster Wheeler Environmental, Inc
611 Anton Boulevard

Suite 800

Costa Mesa , CA 92626

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



DEB* Debbie Frank

Report#: 52247
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
#52247

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

Samples Received
01-mar-1999 16:38:14

MW-991-086 (990301249) Sampled on 03/01/99

Regulated VOCs plus Lists 1&3

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/09/99	93783	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/09/99	93783	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/09/99	93783	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Laboratory Report #52247

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/09/99	93783	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	104	% Rec		
			(Surrogate)	4-Bromofluorobenzene	101	% Rec		
			(Surrogate)	Toluene-d8	99	% Rec		

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Laboratory Report #52247

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-991-087 (990301250) Sampled on 03/01/99								
03/05/99	03/05/99	93028	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	03/15/99	93470	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
03/04/99	03/05/99	92976	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	03/01/99	92725	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
03/04/99	03/05/99	92979	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
			Regulated VOCs plus Lists 1&3					
	03/09/99	93783	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/09/99	93783	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/09/99	93783	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/09/99	93783	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/09/99	93783	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/09/99	93783	(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	104	% Rec		

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
			(Surrogate)	Toluene-d8	102	% Rec		
MW-991-050 (990301251) Sampled on 03/01/99								
	03/02/99	92807	(ML/SM2320B)	Alkalinity	169	mg/l	2.0	1
	03/12/99		(ML/SM1040)	Anion Sum	4.24	meq/l	0.0010	1
03/05/99	03/05/99	93028	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
03/08/99	03/08/99	93076	(ML/EPA 200.7)	Calcium, Total, ICAP	38.0	mg/l	1.0	1
	03/12/99		(ML/SM1040)	Cation Sum	4.33	meq/l	0.0010	1
	03/03/99	93306	(ML/EPA 300)	Chloride	14	mg/l	1.0	1
	03/15/99	93470	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	03/05/99		(ML/SM2320B)	Carbonate as CO3, Calculated	1.68	mg/l	0.0010	1
03/04/99	03/05/99	92976	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	03/01/99	92725	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	03/02/99	92750	(ML/S2510B)	Specific Conductance	385	umho/cm	4.0	1
03/04/99	03/05/99	92977	(EPA/ML 200.8)	Iron, Total, ICAP/MS	170	ug/l	100	1
	03/05/99		(ML/SM2320B)	Bicarbonate as HCO3,calculated	205	mg/l	0.0010	1
03/08/99	03/08/99	93080	(ML/EPA 200.7)	Potassium, Total, ICAP	1.92	mg/l	1.0	1
03/08/99	03/08/99	93083	(ML/EPA 200.7)	Magnesium, Total, ICAP	10.7	mg/l	1.0	1
03/08/99	03/08/99	93086	(ML/EPA 200.7)	Sodium, Total, ICAP	34.6	mg/l	1.0	1
	03/03/99	93308	(ML/EPA 300.0)	Nitrate-N by IC	1.0	mg/l	0.10	1
03/04/99	03/05/99	92979	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	03/02/99	92812	(ML/SM 4500HB)	Lab pH	8.1	Units	0.0010	1
	03/03/99	93311	(ML/EPA 300.0)	Sulfate	19	mg/l	2.0	1
	03/04/99	92914	(ML/S2540C)	Total Dissolved Solid (TDS)	240	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	03/05/99	93298	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/05/99	93298	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/05/99	93298	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/05/99	93298	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Carbon Tetrachloride	1.3	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Bromoform	ND J	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Chloroform (Trichloromethane)	0.7	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1

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Laboratory Report #52247

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/05/99	93298	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	112	% Rec		
			(Surrogate)	4-Bromofluorobenzene	86	% Rec		
			(Surrogate)	Toluene-d8	82	% Rec		
MW-991-051 (990301252)			**Sampled on**	**03/01/99**				
	03/02/99	92807	(ML/SM2320B)	Alkalinity	186	mg/l	2.0	1
	03/12/99		(ML/SM1040)	Anion Sum	4.91	meq/l	0.0010	1
03/05/99	03/05/99	93028	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
03/08/99	03/08/99	93076	(ML/EPA 200.7)	Calcium, Total, ICAP	56.2	mg/l	1.0	1
	03/12/99		(ML/SM1040)	Cation Sum	5.04	meq/l	0.0010	1
	03/03/99	93306	(ML/EPA 300)	Chloride	15	mg/l	1.0	1
	03/15/99	93470	(MOD/EPA 300)	Perchlorate	7.0	ug/l	4.0	1
	03/05/99		(ML/SM2320B)	Carbonate as CO3, Calculated	1.17	mg/l	0.0010	1
03/04/99	03/05/99	92976	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	03/01/99	92725	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	03/02/99	92750	(ML/S2510B)	Specific Conductance	450	umho/cm	4.0	1
03/04/99	03/05/99	92977	(EPA/ML 200.8)	Iron, Total, ICAP/MS	180	ug/l	100	1
	03/05/99		(ML/SM2320B)	Bicarbonate as HCO3,calculated	226	mg/l	0.0010	1
03/08/99	03/08/99	93080	(ML/EPA 200.7)	Potassium, Total, ICAP	2.19	mg/l	1.0	1
03/08/99	03/08/99	93083	(ML/EPA 200.7)	Magnesium, Total, ICAP	14.3	mg/l	1.0	1
03/08/99	03/08/99	93086	(ML/EPA 200.7)	Sodium, Total, ICAP	22.9	mg/l	1.0	1

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/03/99	93308	(ML/EPA 300.0)	Nitrate-N by IC	1.4	mg/l	0.10	1
03/04/99	03/05/99	92979	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	03/02/99	92812	(ML/SM 4500HB)	Lab pH	7.9	Units	0.0010	1
	03/03/99	93311	(ML/EPA 300.0)	Sulfate	32	mg/l	2.0	1
	03/04/99	92914	(ML/S2540C)	Total Dissolved Solid (TDS)	280	mg/l	10	1
				Regulated VOCs plus Lists 1&3				
	03/05/99	93298	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/05/99	93298	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/05/99	93298	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Carbon Tetrachloride	4.5	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Bromoform	ND J	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/05/99	93298	(ML/EPA 524.2)	Chloroform (Trichloromethane)	1.2	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/05/99	93298	(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	116	% Rec		
			(Surrogate)	4-Bromofluorobenzene	82	% Rec		
			(Surrogate)	Toluene-d8	76	% Rec		

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Laboratory Report #52247

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-991-052 (990301253) Sampled on 03/01/99								
	03/02/99	92807	(ML/SM2320B)	Alkalinity	160	mg/l	2.0	1
	03/12/99		(ML/SM1040)	Anion Sum	4.56	meq/l	0.0010	1
03/04/99	03/08/99	93112	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
03/08/99	03/08/99	93076	(ML/EPA 200.7)	Calcium, Total, ICAP	43.4	mg/l	1.0	1
	03/12/99		(ML/SM1040)	Cation Sum	4.62	meq/l	0.0010	1
	03/03/99	93306	(ML/EPA 300)	Chloride	19	mg/l	1.0	1
	03/15/99	93470	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	03/05/99		(ML/SM2320B)	Carbonate as CO3, Calculated	1.60	mg/l	0.0010	1
03/04/99	03/05/99	93064	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	03/01/99	92725	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	03/02/99	92750	(ML/S2510B)	Specific Conductance	420	umho/cm	4.0	1
03/04/99	03/05/99	93067	(EPA/ML 200.8)	Iron, Total, ICAP/MS	540	ug/l	100	1
	03/05/99		(ML/SM2320B)	Bicarbonate as HCO3,calculated	195	mg/l	0.0010	1
03/08/99	03/08/99	93080	(ML/EPA 200.7)	Potassium, Total, ICAP	2.79	mg/l	1.0	1
03/08/99	03/08/99	93083	(ML/EPA 200.7)	Magnesium, Total, ICAP	15.6	mg/l	1.0	1
03/08/99	03/08/99	93086	(ML/EPA 200.7)	Sodium, Total, ICAP	25.1	mg/l	1.0	1
	03/03/99	93308	(ML/EPA 300.0)	Nitrate-N by IC	0.21	mg/l	0.10	1
03/04/99	03/05/99	93066	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	03/02/99	92812	(ML/SM 4500HB)	Lab pH	8.1	Units	0.0010	1
	03/03/99	93311	(ML/EPA 300.0)	Sulfate	39	mg/l	2.0	1
	03/04/99	92914	(ML/S2540C)	Total Dissolved Solid (TDS)	260	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	03/05/99	93298	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1

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(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/05/99	93298	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/05/99	93298	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/05/99	93298	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Carbon Tetrachloride	23	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Bromoform	ND J	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Chloroform (Trichloromethane)	4.5	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1

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Laboratory Report #52247

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/05/99	93298	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/05/99	93298	(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	123	% Rec		
			(Surrogate)	4-Bromofluorobenzene	87	% Rec		
			(Surrogate)	Toluene-d8	87	% Rec		
MW-991-053 (990301254)			**Sampled on 03/01/99**					
03/04/99	03/08/99	93112	(S3113B/E200.9)	**Arsenic, Total, GF**	ND	mg/l	0.005	1
	03/15/99	93470	(MOD/EPA 300)	**Perchlorate**	4.6	ug/l	4.0	1
03/04/99	03/05/99	93064	(EPA/ML 200.8)	**Chromium, Total, ICAP/MS**	ND	ug/l	10	1
	03/01/99	92725	(ML/SW 7196)	**Hexavalent chromium (Cr VI)**	ND	mg/l	0.005	1
03/04/99	03/05/99	93066	(EPA/ML 200.8)	**Lead, Total, ICAP/MS**	ND	ug/l	2.0	1
			Regulated VOCs plus Lists 1&3					
	03/05/99	93298	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/05/99	93298	(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	MDL	Dilution
	03/05/99	93298	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/05/99	93298	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/05/99	93298	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Carbon Tetrachloride	1.4	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Bromoform	ND J	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Chloroform (Trichloromethane)	1.0	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/05/99	93298	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/05/99	93298	(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	116	% Rec		
			(Surrogate)	4-Bromofluorobenzene	92	% Rec		
			(Surrogate)	Toluene-d8	82	% Rec		
MW-991-054 (990301255)			**Sampled on**	**03/01/99**				
	03/02/99	92807	(ML/SM2320B)	Alkalinity	189	mg/l	2.0	1
	03/12/99		(ML/SM1040)	Anion Sum	5.24	meq/l	0.0010	1
03/04/99	03/08/99	93112	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
03/08/99	03/08/99	93076	(ML/EPA 200.7)	Calcium, Total, ICAP	55.0	mg/l	1.0	1
	03/12/99		(ML/SM1040)	Cation Sum	5.34	meq/l	0.0010	1
	03/03/99	93306	(ML/EPA 300)	Chloride	15	mg/l	1.0	1
	03/15/99	93470	(MOD/EPA 300)	Perchlorate	4.1	ug/l	4.0	1
	03/05/99		(ML/SM2320B)	Carbonate as CO3, Calculated	0.749	mg/l	0.0010	1
03/04/99	03/05/99	93064	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	03/01/99	92725	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	03/02/99	92750	(ML/S2510B)	Specific Conductance	465	umho/cm	4.0	1
03/04/99	03/05/99	93067	(EPA/ML 200.8)	Iron, Total, ICAP/MS	240	ug/l	100	1
	03/05/99		(ML/SM2320B)	Bicarbonate as HCO3,calculated	230	mg/l	0.0010	1
03/08/99	03/08/99	93080	(ML/EPA 200.7)	Potassium, Total, ICAP	3.02	mg/l	1.0	1
03/08/99	03/08/99	93083	(ML/EPA 200.7)	Magnesium, Total, ICAP	17.8	mg/l	1.0	1
03/08/99	03/08/99	93086	(ML/EPA 200.7)	Sodium, Total, ICAP	24.2	mg/l	1.0	1

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/03/99	93308	(ML/EPA 300.0)	Nitrate-N by IC	2.0	mg/l	0.10	1
03/04/99	03/05/99	93066	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	03/02/99	92812	(ML/SM 4500HB)	Lab pH	7.7	Units	0.0010	1
	03/03/99	93311	(ML/EPA 300.0)	Sulfate	43	mg/l	2.0	1
	03/08/99	93180	(ML/S2540C)	Total Dissolved Solid (TDS)	290	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	03/05/99	93298	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/05/99	93298	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/05/99	93298	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Carbon Tetrachloride	1.3	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Bromoform	ND J	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/05/99	93298	(ML/EPA 524.2)	Chloroform (Trichloromethane)	0.9	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	119	% Rec		
			(Surrogate)	4-Bromofluorobenzene	86	% Rec		
			(Surrogate)	Toluene-d8	82	% Rec		

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-991-055 (990301256) Sampled on 03/01/99								
	03/02/99	92807	(ML/SM2320B)	Alkalinity	142	mg/l	2.0	1
	03/12/99		(ML/SM1040)	Anion Sum	3.73	meq/l	0.0010	1
03/04/99	03/08/99	93112	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
03/08/99	03/08/99	93076	(ML/EPA 200.7)	Calcium, Total, ICAP	34.5	mg/l	1.0	1
	03/12/99		(ML/SM1040)	Cation Sum	3.80	meq/l	0.0010	1
	03/03/99	93306	(ML/EPA 300)	Chloride	10	mg/l	1.0	1
	03/15/99	93470	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	03/05/99		(ML/SM2320B)	Carbonate as CO3, Calculated	0.282	mg/l	0.0010	1
03/04/99	03/05/99	93064	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	03/01/99	92725	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	03/02/99	92750	(ML/S2510B)	Specific Conductance	340	umho/cm	4.0	1
03/04/99	03/05/99	93067	(EPA/ML 200.8)	Iron, Total, ICAP/MS	890	ug/l	100	1
	03/05/99		(ML/SM2320B)	Bicarbonate as HCO3,calculated	173	mg/l	0.0010	1
03/08/99	03/08/99	93080	(ML/EPA 200.7)	Potassium, Total, ICAP	2.73	mg/l	1.0	1
03/08/99	03/08/99	93083	(ML/EPA 200.7)	Magnesium, Total, ICAP	14.4	mg/l	1.0	1
03/08/99	03/08/99	93086	(ML/EPA 200.7)	Sodium, Total, ICAP	18.9	mg/l	1.0	1
	03/03/99	93308	(ML/EPA 300.0)	Nitrate-N by IC	0.92	mg/l	0.10	1
03/04/99	03/05/99	93066	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	03/02/99	92812	(ML/SM 4500HB)	Lab pH	7.4	Units	0.0010	1
	03/03/99	93311	(ML/EPA 300.0)	Sulfate	26	mg/l	2.0	1
	03/08/99	93180	(ML/S2540C)	Total Dissolved Solid (TDS)	210	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	03/05/99	93298	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1

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Laboratory Report #52247

Foster Wheeler Environmental, Inc
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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/05/99	93298	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	03/05/99	93298	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	03/05/99	93298	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Bromoform	ND J	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	03/05/99	93298	(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	MDL	Dilution
	03/05/99	93298	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	03/05/99	93298	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	115	% Rec		
			(Surrogate)	4-Bromofluorobenzene	94	% Rec		
			(Surrogate)	Toluene-d8	82	% Rec		

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Report
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Group Comments

(524.2) Sample#990301250 and #990301251 are analyzed past holding time. Internal standard #3 (1,2-Dichlorobenzene-d4) recovered below 70% in the following samples: #990301251, #990301252,#990301253,#990301253,#990301255 and #990301256. 1,2-DCA-d4 surrogate recovered at 123% which was above acceptable limit of 80-120% in sample ID#MW-991-052. Toluene-d8 surrogate recovered at 76% which was above acceptable limit of 80-120% in sample ID#MW-99-051. Samples were reanalyzed on 03/08/99, but data was lost because of analyst error. Compounds quantitated off of Internal standard #3 are 1,2-Dichlorobenzene , n-Butylbenzene, 1,2,4-Trichlobenzene, Naphthalene, 1,2,3-Trichlorobenzene and Hexachlorobutadiene. Results for these compounds are biase high, however samples were non-detect for these compounds. See QIR- MS-99-028.
Bromoform recovery in the LFB analyzed on 3/05/99 is lower than 70%. Bromoform results in the samples analyzed on 3/05/99 are biased low. See QIR-MS-99-036.
(FE-MS) Matrix spike recovery performed on sample#990226112 is lower than 70-130%, due to high concentration of Fe in the spiked sample. Result of FE in this sample is three times the spiked amount. GG 3/30/99.

(990301249)
@EBASVOA
Sample analyzed one day past holding time due to instrument problem. Reference QIR-MS-99-029.

(990301250)
@EBASVOA
Sample analyzed one day past holding time due to instrument problem. Reference QIR-MS-99-029.

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QC Batch #92725 Hexavalent chromium (Cr VI)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0301256		(0.00 - 0.00)	
LCS1	Hexavalent chromium (Cr VI)	0.050	0.0495	99.0	(78.00 - 118.00)	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.0502	100.4	(78.00 - 118.00)	1.4
MBLK	Hexavalent chromium (Cr VI)	ND				
MS	Hexavalent chromium (Cr VI)	0.050	0.0508	101.6	(80.00 - 120.00)	
MSD	Hexavalent chromium (Cr VI)	0.050	0.0514	102.8	(80.00 - 120.00)	1.2

QC Batch #92750 Specific Conductance

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 99	0301256		(0.00 - 0.00)	

QC Batch #92807 Alkalinity

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0226110		(0.00 - 0.00)	
LCS1	Alkalinity	96.2	97.9	101.8	(90.00 - 110.00)	
LCS2	Alkalinity	96.2	97.5	101.4	(90.00 - 110.00)	0.41
MBLK	Alkalinity	ND				
MS	Alkalinity	96.2	89.0	92.5	(80.00 - 120.00)	
MSD	Alkalinity	96.2	89.0	92.5	(80.00 - 120.00)	0.00

QC Batch #92812 Lab pH

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	lab # 99	0302171		(0.00 - 0.00)	

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

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Foster Wheeler Environmental, Inc
(continued)

QC Batch #92914 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 99	0302066		(0.00 - 0.00)	
LCS1	Total Dissolved Solid (TDS)	175	170	97.1	(85.00 - 115.00)	
LCS2	Total Dissolved Solid (TDS)	700	684	97.7	(85.00 - 115.00)	
MBLK	Total Dissolved Solid (TDS)	ND				

QC Batch #92976 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0224202		(0.00 - 0.00)	
LCS1	Chromium, Total, ICAP/MS	100	99	99.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	95	95.0	(85.00 - 115.00)	4.1
MBLK	Chromium, Total, ICAP/MS	ND				
MS	Chromium, Total, ICAP/MS	100	98	98.0	(70.00 - 130.00)	
MSD	Chromium, Total, ICAP/MS	100	95	95.0	(70.00 - 130.00)	3.1

QC Batch #92977 Iron, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0224202		(0.00 - 0.00)	
LCS1	Iron, Total, ICAP/MS	500	543	108.6	(85.00 - 115.00)	
LCS2	Iron, Total, ICAP/MS	500	517	103.4	(85.00 - 115.00)	4.9
MBLK	Iron, Total, ICAP/MS	ND				
MS	Iron, Total, ICAP/MS	500	562	112.4	(70.00 - 130.00)	
MSD	Iron, Total, ICAP/MS	500	550	110.0	(70.00 - 130.00)	2.2

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QC Batch #92979 Lead, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0224202		(0.00 - 0.00)	
LCS1	Lead, Total, ICAP/MS	20.0	21.6	108.0	(85.00 - 115.00)	
LCS2	Lead, Total, ICAP/MS	20.0	19.9	99.5	(85.00 - 115.00)	8.2
MBLK	Lead, Total, ICAP/MS	ND				
MS	Lead, Total, ICAP/MS	20.0	20.6	103.0	(70.00 - 130.00)	
MSD	Lead, Total, ICAP/MS	20.0	20.0	100.0	(70.00 - 130.00)	3.0

QC Batch #93028 Arsenic, Total, GF

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0224202		(0.00 - 0.00)	
LCS1	Arsenic, Total, GF	0.020	0.0195	97.5	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.0195	97.5	(85.00 - 115.00)	0.00
MBLK	Arsenic, Total, GF	ND				
MS	Arsenic, Total, GF	0.020	0.0193	96.5	(70.00 - 130.00)	
MSD	Arsenic, Total, GF	0.020	0.0192	96.0	(70.00 - 130.00)	0.52

QC Batch #93064 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0226112		(0.00 - 0.00)	
LCS1	Chromium, Total, ICAP/MS	100	101	101.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	102	102.0	(85.00 - 115.00)	0.99
MBLK	Chromium, Total, ICAP/MS	ND				
MS	Chromium, Total, ICAP/MS	100	95	95.0	(70.00 - 130.00)	
MSD	Chromium, Total, ICAP/MS	100	97	97.0	(70.00 - 130.00)	2.1

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QC Batch #93066 Lead, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0226112		(0.00 - 0.00)	
LCS1	Lead, Total, ICAP/MS	20.0	21.0	105.0	(85.00 - 115.00)	
LCS2	Lead, Total, ICAP/MS	20.0	21.8	109.0	(85.00 - 115.00)	3.7
MBLK	Lead, Total, ICAP/MS	ND				
MS	Lead, Total, ICAP/MS	20.0	20.4	102.0	(70.00 - 130.00)	
MSD	Lead, Total, ICAP/MS	20.0	19.4	97.0	(70.00 - 130.00)	5.0

QC Batch #93067 Iron, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0226112		(0.00 - 0.00)	
LCS1	Iron, Total, ICAP/MS	500	496	99.2	(85.00 - 115.00)	
LCS2	Iron, Total, ICAP/MS	500	532	106.4	(85.00 - 115.00)	7.0
MBLK	Iron, Total, ICAP/MS	ND				
MS	Iron, Total, ICAP/MS	500	300	60.0	(70.00 - 130.00)	
MSD	Iron, Total, ICAP/MS	500	527	105.4	(70.00 - 130.00)	55

QC Batch #93076 Calcium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0224201		(0.00 - 0.00)	
LCS1	Calcium, Total, ICAP	50	47.8	95.6	(85.00 - 115.00)	
LCS2	Calcium, Total, ICAP	50	48.0	96.0	(85.00 - 115.00)	0.42
MBLK	Calcium, Total, ICAP	ND				
MS	Calcium, Total, ICAP	50	50.6	101.2	(70.00 - 130.00)	
MSD	Calcium, Total, ICAP	50	52.1	104.2	(70.00 - 130.00)	2.9

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QC Batch #93080 Potassium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0224201		(0.00 - 0.00)	
LCS1	Potassium, Total, ICAP	20	19.4	97.0	(80.00 - 110.00)	
LCS2	Potassium, Total, ICAP	20	19.5	97.5	(80.00 - 110.00)	0.51
MBLK	Potassium, Total, ICAP	ND				
MS	Potassium, Total, ICAP	20	19.3	96.5	(80.00 - 120.00)	
MSD	Potassium, Total, ICAP	20	19.6	98.0	(80.00 - 120.00)	1.5

QC Batch #93083 Magnesium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0224201		(0.00 - 0.00)	
LCS1	Magnesium, Total, ICAP	20	19.7	98.5	(85.00 - 115.00)	
LCS2	Magnesium, Total, ICAP	20	19.8	99.0	(85.00 - 115.00)	0.51
MBLK	Magnesium, Total, ICAP	ND				
MS	Magnesium, Total, ICAP	20	19.7	98.5	(70.00 - 130.00)	
MSD	Magnesium, Total, ICAP	20	20.2	101.0	(70.00 - 130.00)	2.5

QC Batch #93086 Sodium, Total, ICAP

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0224201		(0.00 - 0.00)	
LCS1	Sodium, Total, ICAP	50	49.3	98.6	(85.00 - 115.00)	
LCS2	Sodium, Total, ICAP	50	49.7	99.4	(85.00 - 115.00)	0.81
MBLK	Sodium, Total, ICAP	ND				
MS	Sodium, Total, ICAP	50	47.0	94.0	(70.00 - 130.00)	
MSD	Sodium, Total, ICAP	50	47.8	95.6	(70.00 - 130.00)	1.7

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Foster Wheeler Environmental, Inc
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QC Batch #93112 Arsenic, Total, GF

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0226112		(0.00 - 0.00)	
LCS1	Arsenic, Total, GF	0.020	0.0201	100.5	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.0199	99.5	(85.00 - 115.00)	1.00
MBLK	Arsenic, Total, GF	ND				
MS	Arsenic, Total, GF	0.020	0.0201	100.5	(70.00 - 130.00)	
MSD	Arsenic, Total, GF	0.020	0.0199	99.5	(70.00 - 130.00)	1.00

QC Batch #93180 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 99	0304033		(0.00 - 0.00)	
LCS1	Total Dissolved Solid (TDS)	175	174	99.4	(85.00 - 115.00)	
LCS2	Total Dissolved Solid (TDS)	700	676	96.6	(85.00 - 115.00)	
MBLK	Total Dissolved Solid (TDS)	ND				

QC Batch #93298 Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	4	4.60	115.0	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	3.91	97.8	(70.00 - 130.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	4.28	107.0	(70.00 - 130.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	4.43	110.8	(70.00 - 130.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	5.04	126.0	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MS	1,1-Dichloroethylene	4	4.12	103.0	(70.00 - 130.00)	

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MSD	1,1-Dichloroethylene	4	3.11	77.8	(70.00 - 130.00)	28
MBLK	1,1-Dichloropropene	ND				
MBLK	1,2,3-Trichlorobenzene	ND				
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	4	3.79	94.8	(70.00 - 130.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	4	4.84	121.0	(70.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	4	4.69	117.3	(70.00 - 130.00)	
MBLK	1,2-Dichloropropane	ND				
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	8	7.55	94.4	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
LCS1	p-Dichlorobenzene (1,4-DCB)	4	3.59	89.8	(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	0303079		(0.00 - 0.00)	
LCS1	Benzene	4	4.69	117.3	(70.00 - 130.00)	
MBLK	Benzene	ND				
MS	Benzene	4	4.02	100.5	(70.00 - 130.00)	
MSD	Benzene	4	3.70	92.5	(70.00 - 130.00)	8.3
MBLK	Bromobenzene	ND				
MBLK	Bromomethane (Methyl Bromide)	ND				
LCS1	cis-1,2-Dichloroethylene	4	4.80	120.0	(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	3.87	96.8	(70.00 - 130.00)	
MSD	Chlorobenzene	4	3.82	95.5	(70.00 - 130.00)	1.3
LCS1	Carbon Tetrachloride	4	5.21	130.2	(70.00 - 130.00)	
MBLK	Carbon Tetrachloride	ND				

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MBLK	cis-1,3-Dichloropropene	ND			
LCS1	Bromoform	5	3.01	60.2	(70.00 - 130.00)
MBLK	Bromoform	ND			
LCS1	Chloroform (Trichloromethane)	4	4.60	115.0	(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	3.98	99.5	(70.00 - 130.00)
MBLK	Bromodichloromethane	ND			
LCS1	Dichloromethane	4	4.63	115.8	(70.00 - 130.00)
MBLK	Dichloromethane	ND			
LCS1	Ethyl benzene	4	4.07	101.8	(70.00 - 130.00)
MBLK	Ethyl benzene	ND			
MBLK	Dichlorodifluoromethane	ND			
LCS1	Fluorotrichloromethane-Freon11	2	2.02	101.0	(70.00 - 130.00)
MBLK	Fluorotrichloromethane-Freon11	ND			
MBLK	Hexachlorobutadiene	ND			
MBLK	Isopropylbenzene	ND			
MBLK	m-Dichlorobenzene (1,3-DCB)	ND			
LCS1	m,p-Xylenes	8	8.00	100.0	(70.00 - 130.00)
MBLK	m,p-Xylenes	ND			
MBLK	Naphthalene	ND			
MBLK	n-Butylbenzene	ND			
MBLK	n-Propylbenzene	ND			
LCS1	o-Xylene	4	3.94	98.5	(70.00 - 130.00)
MBLK	o-Xylene	ND			
LCS1	o-Dichlorobenzene (1,2-DCB)	4	4.15	103.8	(70.00 - 130.00)
MBLK	o-Dichlorobenzene (1,2-DCB)	ND			
LCS1	Tetrachloroethylene (PCE)	4	3.87	96.8	(70.00 - 130.00)
MBLK	Tetrachloroethylene (PCE)	ND			
MBLK	p-Isopropyltoluene	ND			
MBLK	sec-Butylbenzene	ND			
LCS1	Styrene	4	3.74	93.5	(70.00 - 130.00)

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MBLK	Styrene	ND				
LCS1	1,2-dichloroethane-d4	100	110	110.0	(80.00 - 120.00)	
MBLK	1,2-dichloroethane-d4	100	114	114.0		
MS	1,2-dichloroethane-d4	100	105	105.0	(80.00 - 120.00)	
MSD	1,2-dichloroethane-d4	100	106	106.0	(80.00 - 120.00)	0.95
LCS1	Toluene-d8	100	94.6	94.6	(80.00 - 120.00)	
MBLK	Toluene-d8	100	85.8	85.8		
MS	Toluene-d8	100	96.3	96.3	(80.00 - 120.00)	
MSD	Toluene-d8	100	99.2	99.2	(80.00 - 120.00)	3.0
LCS1	4-Bromofluorobenzene	100	92.2	92.2	(80.00 - 120.00)	
MBLK	4-Bromofluorobenzene	100	89.0	89.0		
MS	4-Bromofluorobenzene	100	105	105.0	(80.00 - 120.00)	
MSD	4-Bromofluorobenzene	100	101	101.0	(80.00 - 120.00)	3.9
LCS1	trans-1,2-Dichloroethylene	4	5.00	125.0	(70.00 - 130.00)	
MBLK	trans-1,2-Dichloroethylene	ND				
MBLK	tert-Butylbenzene	ND				
LCS1	Trichloroethylene (TCE)	4	4.24	106.0	(70.00 - 130.00)	
MBLK	Trichloroethylene (TCE)	ND				
MS	Trichloroethylene (TCE)	4	4.79	119.8	(70.00 - 130.00)	
MSD	Trichloroethylene (TCE)	4	4.72	118.0	(70.00 - 130.00)	1.5
LCS1	Trichlorotrifluoroethane(Freon	2	2.05	102.5	(70.00 - 130.00)	
MBLK	Trichlorotrifluoroethane(Freon	ND				
MBLK	trans-1,3-Dichloropropene	ND				
LCS1	Toluene	4	4.27	106.7	(70.00 - 130.00)	
MBLK	Toluene	ND				
MS	Toluene	4	3.95	98.8	(70.00 - 130.00)	
MSD	Toluene	4	3.80	95.0	(70.00 - 130.00)	3.9
LCS1	Vinyl chloride (VC)	2	1.88	94.0	(70.00 - 130.00)	
MBLK	Vinyl chloride (VC)	ND				

QC Batch #93306 Chloride

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0301252		(0.00 - 0.00)	
LCS1	Chloride	25	23.7	94.8	(90.00 - 110.00)	
LCS2	Chloride	25	25.3	101.2	(90.00 - 110.00)	6.5

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MBLK	Chloride	ND				
MS	Chloride	25	28.3	113.2	(80.00 - 120.00)	
MSD	Chloride	25	28.3	113.2	(80.00 - 120.00)	0.00

QC Batch #93308 Nitrate-N by IC

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0301252		(0.00 - 0.00)	
LCS1	Nitrate-N by IC	2.5	2.35	94.0	(90.00 - 110.00)	
LCS2	Nitrate-N by IC	2.5	2.50	100.0	(90.00 - 110.00)	6.2
MBLK	Nitrate-N by IC	ND				
MS	Nitrate-N by IC	2.5	2.74	109.6	(80.00 - 120.00)	
MSD	Nitrate-N by IC	2.5	2.75	110.0	(80.00 - 120.00)	0.36

QC Batch #93311 Sulfate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0301252		(0.00 - 0.00)	
LCS1	Sulfate	50	47.1	94.2	(90.00 - 110.00)	
LCS2	Sulfate	50	50.2	100.4	(90.00 - 110.00)	6.4
MBLK	Sulfate	ND				
MS	Sulfate	50	56.7	113.4	(80.00 - 120.00)	
MSD	Sulfate	50	56.6	113.2	(80.00 - 120.00)	0.18

QC Batch #93470 Perchlorate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 99	0301250		(0.00 - 0.00)	
LCS1	Perchlorate	20.0	19.3	96.5	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	19.9	99.5	(90.00 - 110.00)	3.1
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

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QC Batch #93783 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	3.96	99.0	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	3.85	96.2	(70.00 - 130.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	3.94	98.5	(70.00 - 130.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	3.83	95.8	(70.00 - 130.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	3.14	78.5	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MS	1,1-Dichloroethylene	4	4.12	103.0	(70.00 - 130.00)	
MSD	1,1-Dichloroethylene	4	3.11	77.8	(70.00 - 130.00)	28
MBLK	1,1-Dichloropropene	ND				
MBLK	1,2,3-Trichlorobenzene	ND				
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	4	3.99	99.8	(70.00 - 130.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	4	3.82	95.5	(70.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	4	4.05	101.2	(70.00 - 130.00)	
MBLK	1,2-Dichloropropane	ND				
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	8	7.50	93.8	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
LCS1	p-Dichlorobenzene (1,4-DCB)	4	4.07	101.8	(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	0303079		(0.00 - 0.00)	
LCS1	Benzene	4	4.02	100.5	(70.00 - 130.00)	
MBLK	Benzene	ND				
MS	Benzene	4	4.02	100.0	(70.00 - 130.00)	
MSD	Benzene	4	3.70	92.5	(70.00 - 130.00)	8.3
MBLK	Bromobenzene	ND				
MBLK	Bromomethane (Methyl Bromide)	ND				
LCS1	cis-1,2-Dichloroethylene	4	4.21	105.2	(70.00 - 130.00)	
MBLK	cis-1,2-Dichloroethylene	ND				
LCS1	Chlorobenzene	4	3.95	98.8	(70.00 - 130.00)	
MBLK	Chlorobenzene	ND				
MS	Chlorobenzene	4	3.87	96.8	(70.00 - 130.00)	
MSD	Chlorobenzene	4	3.82	95.5	(70.00 - 130.00)	1.3
LCS1	Carbon Tetrachloride	4	3.79	94.8	(70.00 - 130.00)	
MBLK	Carbon Tetrachloride	ND				
MBLK	cis-1,3-Dichloropropene	ND				
LCS1	Bromoform	4	3.04	76.0	(70.00 - 130.00)	
MBLK	Bromoform	ND				
LCS1	Chloroform (Trichloromethane)	4	3.97	99.2	(70.00 - 130.00)	
MBLK	Chloroform (Trichloromethane)	ND				
MBLK	Bromochloromethane	ND				
MBLK	Chloroethane	ND				
MBLK	Chloromethane(Methyl Chloride)	ND				
LCS1	Chlorodibromomethane	4	3.78	94.5	(70.00 - 130.00)	
MBLK	Chlorodibromomethane	ND				
MBLK	Dibromomethane	ND				
LCS1	Bromodichloromethane	4	3.84	96.0	(70.00 - 130.00)	
MBLK	Bromodichloromethane	ND				
LCS1	Dichloromethane	4	2.99	74.8	(70.00 - 130.00)	
MBLK	Dichloromethane	ND				
LCS1	Ethyl benzene	4	4.11	102.8	(70.00 - 130.00)	
MBLK	Ethyl benzene	ND				
MBLK	Dichlorodifluoromethane	ND				
LCS1	Fluorotrichloromethane-Freon11	2	1.64	82.0	(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	7.88	98.5	(70.00 - 130.00)	
MBLK	m,p-Xylenes	ND				
MBLK	Naphthalene	ND				
MBLK	n-Butylbenzene	ND				
MBLK	n-Propylbenzene	ND				
LCS1	o-Xylene	4	4.03	100.8	(70.00 - 130.00)	
MBLK	o-Xylene	ND				
LCS1	o-Dichlorobenzene (1,2-DCB)	4	3.74	93.5	(70.00 - 130.00)	
MBLK	o-Dichlorobenzene (1,2-DCB)	ND				
LCS1	Tetrachloroethylene (PCE)	4	4.01	100.2	(70.00 - 130.00)	
MBLK	Tetrachloroethylene (PCE)	ND				
MBLK	p-Isopropyltoluene	ND				
MBLK	sec-Butylbenzene	ND				
LCS1	Styrene	4	3.97	99.2	(70.00 - 130.00)	
MBLK	Styrene	ND				
LCS1	1,2-dichloroethane-d4	100	104	104.0	(80.00 - 120.00)	
MBLK	1,2-dichloroethane-d4	100	103	103.0		
MS	1,2-dichloroethane-d4	100	105	105.0	(80.00 - 120.00)	
MSD	1,2-dichloroethane-d4	100	106	106.0	(80.00 - 120.00)	0.95
LCS1	Toluene-d8	100	100	100.0	(80.00 - 120.00)	
MBLK	Toluene-d8	100	97.4	97.4		
MS	Toluene-d8	100	96.3	96.3	(80.00 - 120.00)	
MSD	Toluene-d8	100	99.2	99.2	(80.00 - 120.00)	3.0
LCS1	4-Bromofluorobenzene	100	103	103.0	(80.00 - 120.00)	
MBLK	4-Bromofluorobenzene	100	97.5	97.5		
MS	4-Bromofluorobenzene	100	105	105.0	(80.00 - 120.00)	
MSD	4-Bromofluorobenzene	100	101	101.0	(80.00 - 120.00)	3.9
LCS1	trans-1,2-Dichloroethylene	4	3.99	99.8	(70.00 - 130.00)	
MBLK	trans-1,2-Dichloroethylene	ND				
MBLK	tert-Butylbenzene	ND				
LCS1	Trichloroethylene (TCE)	4	3.93	98.2	(70.00 - 130.00)	
MBLK	Trichloroethylene (TCE)	ND				
MS	Trichloroethylene (TCE)	4	4.79	119.8	(70.00 - 130.00)	
MSD	Trichloroethylene (TCE)	4	4.72	118.0	(70.00 - 130.00)	1.5

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LCS1	Trichlorotrifluoroethane(Freon	2	1.71	85.5	(70.00 - 130.00)	
MBLK	Trichlorotrifluoroethane(Freon	ND				
MBLK	trans-1,3-Dichloropropene	ND				
LCS1	Toluene	4	4.14	103.5	(70.00 - 130.00)	
MBLK	Toluene	ND				
MS	Toluene	4	3.95	98.8	(70.00 - 130.00)	
MSD	Toluene	4	3.80	95.0	(70.00 - 130.00)	3.9
LCS1	Vinyl chloride (VC)	2	1.65	82.5	(70.00 - 130.00)	
MBLK	Vinyl chloride (VC)	ND				

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

MONTGOMERY WATSON LABORATORIES

A division of Montgomery Watson Americas, Inc.

Quality Environmental Analysis

March 28, 1999

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

Attention: Mark Cutler

Re: Report # 52286 (MW-991-088, MW-991-089, MW-991-074 MW-991-075)

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):
(Fe) The MS for Iron by 200.8 does not meet acceptance criteria of ±30, at 60%. RPD of the MS/MSD does not meet acceptance criteria. A sample not reported on this report was used for the MS/MSD. The blank and the LCS pair are acceptable. The results for these samples are reported without qualifications.

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

Method blanks with compounds detected:
None

Other Comments:
None

TIC's:
None

Method Variance:
None

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#007618-0005-0001
Group#: 52286
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

The following samples were received from you on 03/02/99. 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
990302172	MW-991-088	@EBASVOA AS-EBAS CR-EBAS PB-EBAS CR-VI CLO4	Water	03/02/99
990302173	MW-991-089	@EBASVOA	Water	03/02/99
990302174	MW-991-074	@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	03/02/99
990302175	MW-991-075	@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	03/02/99

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

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

Customer Code: ENSERCH
PO#: Sub PO#007618-0005-0001
Group#: 52286
Project#: JPL
Proj Mgr: Debbie Frank
Phone: (714) 444-5526

Test Acronym Description

Test Acronym	Description
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)

52286

NUMBER 2000

TEMP: 6 - 11
B.I - ok

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

PROJECT: JPL
OFS NO.:

PROJECT ADDRESS: 4800 Oak Grove Dr. Pasadena, CA

SAMPLER (Name): [illegible]
SAMPLER (Signature): [illegible]

LABORATORY: Montgomery Watson Labs

REPORTS TO BE SENT TO: Mr. Mark [illegible]

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

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

ANALYSES REQUIRED

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	WATER	SOIL	OTHER (Describe)	VOCs	[illegible]	[illegible] TDS	[illegible]	[illegible]	[illegible]				
MW-991-088	1350	3/2/99	5	[illegible]	X			X	X		X	X					
MW 991 089	1410	3/2/99	2	2 x 40 mL	X			X									
MW-991-079	1445	3/2/99	6	[illegible]	X			X	X	X	X	X					
MW 991-075	1600	3/2/99	6	↓	X			X	X	X	X	X	X				
end																	

[redacted]

LABORATORY INSTRUCTIONS/COMMENTS

Level IV QA/QC
[illegible] IV [illegible]

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

F-2

SH[illegible]G COPY

MONTGOMERY LABORATORIES COOLER RECEIPT FORM

PROJECT: ENSERCH Date Received: 3-2-99

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: 3-2-99

by (print) M. DE MESA (sign) _____

1. Did cooler come with shipping slip (air bill, etc.)? If YES, attach & enter carrier and air bill # here: DEL BY CLIENT	Yes	No
2. Were custody seals on outside of cooler? If YES, how many & where: 4 If Yes, enter the following: seal date: 3-2-99, seal name: BF	Yes	No
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) 3-2-99

B. LOG-IN PHASE: Date samples were logged-in: 3/2-99 by:
(print) M. DE MESA (sign) _____

9. Describe packing:

10. If required, was enough ice used?	Yes	No
11. Were all bottles sealed in separate plastic bags?	Yes	No
12. Did all bottles arrive unbroken/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 descrepancies on back.	Yes	No
15. Were correct containers useed for the analytes?	Yes	No
16. Were correct preservatives used when required?	Yes	No
17. Was sufficient amount of sample sent for tests?	Yes	No
18. Bubbles absent in VOA vials? If NO, list by sample id on back.	Yes	No
19. Was Client Services informed of problems?	Yes	No

port Summary of positive results, PR52286

			Result	MDL	UNITS
Analyzed	990302172	MW-991-088			
Analyzed	990302173	MW-991-089			
Analyzed	990302174	MW-991-074			
03/09/99	Alkalinity		127	2.000	MGL
03/12/99	Anion Sum		2.90	.001	MEQL
03/12/99	Bicarbonate as HCO3,calculated		145	.001	MGL
03/08/99	Calcium, Total, ICAP		2.53	1.000	MGL
03/12/99	Carbonate as CO3, Calculated		23.7	.001	MGL
03/12/99	Cation Sum		3.06	.001	MEQL
03/03/99	Chloride		10	1.000	MGL
03/05/99	Iron, Total, ICAP/MS		1100	******	UGL
03/08/99	Lab pH		9.4	.001	UNIT
03/08/99	Sodium, Total, ICAP		67.4	1.000	MGL
03/05/99	Specific Conductance		315	4.000	UMHO
03/03/99	Sulfate		3.7	2.000	MGL
03/08/99	Total Dissolved Solid (TDS)		210	10.000	MGL
Analyzed	990302175	MW-991-075			
03/09/99	Alkalinity		151	2.000	MGL
03/12/99	Anion Sum		3.69	.001	MEQL
03/12/99	Bicarbonate as HCO3,calculated		183	.001	MGL
03/08/99	Calcium, Total, ICAP		18.6	1.000	MGL
03/12/99	Carbonate as CO3, Calculated		2.99	.001	MGL
03/12/99	Cation Sum		3.70	.001	MEQL
03/03/99	Chloride		12	1.000	MGL
03/05/99	Iron, Total, ICAP/MS		540	******	UGL
03/08/99	Lab pH		8.4	.001	UNIT
03/08/99	Magnesium, Total, ICAP		8.70	1.000	MGL
03/03/99	Nitrate-N by IC		0.21	.100	MGL
03/08/99	Potassium, Total, ICAP		1.96	1.000	MGL
03/08/99	Sodium, Total, ICAP		46.0	1.000	MGL
03/05/99	Specific Conductance		350	4.000	UMHO
03/03/99	Sulfate		15	2.000	MGL
03/08/99	Total Dissolved Solid (TDS)		220	10.000	MGL

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

Report
Comments
#52286

Group Comments

(FE-MS) Recovery of matrix spike performed on sample#990226112 is lower than 70-130%, due to high concentration of Fe in the sample. Result of Fe in this sample is three times the spiked amount. GG 3/30/99.

MONTGOMERY WATSON LABORATORIES
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Pasadena, California 91101
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Laboratory Report

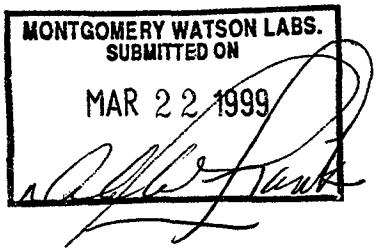
for

Foster Wheeler Environmental, Inc
611 Anton Boulevard

Suite 800

Costa Mesa , CA 92626

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



DEB* Debbie Frank

Report#: 52286
JPL