Previous

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project: JPL GW Monitoring Location: MW-14 Depth: 207 Date: 9/25/00

Well ID: MW-14 Sampling Zone: 1 Starting Time: 1217 Finishing Time: 1309

Technicians: T. Turpin-Keasler, J. Donnay

Pressure Reading Inside MP Casing in psia (Beginning of Session): 14.23 psia (End of Session): 14.25 psia

	Surface Function Checks					Position Sampler	Sample Collection Checks at the Surface							Comments
Run No.	Activate Shoe	Close Valve Check Vacuum	Open Valve	Evacuate Sample Containers	Close Valve	Deactivate Shoe Retract Arm Locate Port	Pressure in MP Casing (psia)	Activate Shoe	Valve Open Time	Valve Closed Time	Deactivate Shoe	Pressure in MP Casing (psia)	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	14.23	✓	1221	1230	✓	14.26	1.0	1st RUN; INITIAL PARAMETERS NTUs = 0.76
2	✓	✓	✓	✓	✓	✓	14.23	✓	1243	1252	✓	14.25	1.0	COLLECT MW-003-042 VOCs, Cr_{tot}, Cr^{+6}, ClO_4^-
3														
4														
5														
6														
7														
8														

Total Volume: 2.0 l

Comments: Pressure Outside MP Casing = 19.04 psia

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project: JPL G.W MONITORING Location: MW-14 Depth: 277 Date: 9/25/00

Well ID: MW-14 Sampling Zone: 2 Starting Time: 1134 Finishing Time: 1206

Technicians: T. Turpyn-Keasler, J. Donnay

Pressure Reading Inside MP Casing in psia (Beginning of Session): 20.35 psia (End of Session): 20.36 psia

	Surface Function Checks					Position Sampler	Sample Collection Checks at the Surface							Comments
Run No.	Activate Shoe	Close Valve Check Vacuum	Open Valve	Evacuate Sample Containers	Close Valve	Deactivate Shoe Retract Arm Locate Port	Pressure in MP Casing (psia)	Activate Shoe	Valve Open Time	Valve Closed Time	Deactivate Shoe	Pressure in MP Casing (psia)	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	20.35	✓	1139	1144	✓	20.36	1.0	1st RUN; INITIAL PARAMETERS NTUs = 4.53
2	✓	✓	✓	✓	✓	✓	20.34	✓	1158	1202	✓	20.36	1.0	COLLECT MW-005-041 VOCs, Cr+6, Cr+6, Cl2 -
3														
4														
5														
6														
7														
8														

Total Volume: 2.0 l

Comments: Pressure Outside MP Casing = 48.91 psia

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project: JPL W. MONITORING Location: MW-14 Depth: 382 Date: 9/25/00

Well ID: MW-14 Sampling Zone: 3 Starting Time: 1019 Finishing Time: 1130

Technicians: T. Turpyn-Keasler, J. Donnay

Pressure Reading Inside MP Casing in psia (Beginning of Session): 66.07 psia (End of Session): ~~66.09~~ psia 65.05

	Surface Function Checks					Position Sampler	Sample Collection Checks at the Surface							Comments
Run No.	Activate Shoe	Close Valve Check Vacuum	Open Valve	Evacuate Sample Containers	Close Valve	Deactivate Shoe Retract Arm Locate Port	Pressure in MP Casing (psia)	Activate Shoe	Valve Open Time	Valve Closed Time	Deactivate Shoe	Pressure in MP Casing (psia)	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	66.07	✓	1027	1035	✓	66.08	1.0	1ST RUN; INITIAL PARAMETERS NTUs = 0.59
2	✓	✓	✓	✓	✓	✓	66.07	✓	1051	1058	✓	66.09	1.0	COLLECT ~~MW~~-003-040 VOCs, Cr^{+6}, Cr_{TOT}
3	✓	✓	✓	✓	✓	✓	65.04*	✓	1118	1120	✓	65.05	.5	FINAL Parameters
4														
5														
6														
7														
8														

Total Volume: 2.5 L

Comments: Pressure Outside MP Casing = 94.38 psia

* ONLY TWO BOTTLES USED FOR FINAL RUN

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project: JPL G.W. Monitoring Location: MW-14 Depth: 456 Date: 9/25/00

Well ID: MW-14 Sampling Zone: 4 Starting Time: 0918 Finishing Time: 1015

Technicians: T. Turpyn-Keasler, J. Donnay

Pressure Reading Inside MP Casing in psia (Beginning of Session): 98.30 psia (End of Session): 98.31 psia

	Surface Function Checks					Position Sampler	Sample Collection Checks at the Surface							Comments
Run No.	Activate Shoe	Close Valve Check Vacuum	Open Valve	Evacuate Sample Containers	Close Valve	Deactivate Shoe Retract Arm Locate Port	Pressure in MP Casing (psia)	Activate Shoe	Valve Open Time	Valve Closed Time	Deactivate Shoe	Pressure in MP Casing (psia)	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	98.30	✓	0920	0931	✓	98.31	1.0	1st RUN; INITIAL PARAMETERS NTUs = 0.33
2	✓	✓	✓	✓	✓	✓	98.32	✓	0955	1000	✓	98.31	1.0	COLLECT MW-009-005 VOCs, Cr_{TOT}, Cr^{+6}, ClO_4^-
3														
4														
5														
6														
7														
8														

Total Volume: 2.0 l

Comments: Pressure Outside MP Casing = ~~98~~ 126.53 psia

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project: JPL G.W Monitoring Location: MW-14 Depth: 540 Date: 9/25/00

Well ID: MW-14 Sampling Zone: 5 Starting Time: 0823 Finishing Time: 0906

Technicians: T. Turpyn-Keasler, J. Donnay

Pressure Reading Inside MP Casing in psia (Beginning of Session): 134.36 psia (End of Session): 134.36 psia

	Surface Function Checks					Position Sampler	Sample Collection Checks at the Surface							Comments
Run No.	Activate Shoe	Close Valve Check Vacuum	Open Valve	Evacuate Sample Containers	Close Valve	Deactivate Shoe Retract Arm Locate Port	Pressure in MP Casing (psia)	Activate Shoe	Valve Open Time	Valve Closed Time	Deactivate Shoe	Pressure in MP Casing (psia)	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	134.36	✓	0832	0835	✓	134.38	0.75	1st RUN; INITIAL PARAMETERS NTUs = 2.68
2	✓	✓	✓	✓	✓	✓	134.34	✓	0855	0858	✓	134.36	0.75	COLLECT MW-C03-038 VOCs, ClO_4^-
3														
4														
5														
6														
7														
8														

Total Volume: 1.5 l

Comments: Pressure Outside MP Casing = 162.77 psia

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-17 Depth: 370 Date: 9/14/00

Well ID: MW-17 Sampling Zone: 2 Starting Time: 1305 Finishing Time: 1315

Technicians: T. Turpyn-Keasler, J. Donnay

Pressure Reading Inside MP Casing in psia (Beginning of Session): 16.40 psia (End of Session): 16.41 psia

	Surface Function Checks					Position Sampler	Sample Collection Checks at the Surface							Comments
Run No.	Activate Shoe	Close Valve Check Vacuum	Open Valve	Evacuate Sample Containers	Close Valve	Deactivate Shoe Retract Arm Locate Port	Pressure in MP Casing (psia)	Activate Shoe	Valve Open Time	Valve Closed Time	Deactivate Shoe	Pressure in MP Casing (psia)	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	16.40	✓	1312	1315	✓	16.40	1.0	1st RUN; INITIAL PARAMETERS NTUs = 1.7
2	✓	✓	✓	✓	✓	✓	16.40	✓	1334	1338	✓	16.41	1.0	COLLECT MW-00-3-036 VOCs, Cr_{tot}, Cr^{+6}, ClO_4^-
3														
4														
5														
6														
7														
8														

Total Volume: 2.0 l

Comments: Pressure Outside MP Casing = 67.63 psia

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-17 Depth: 582 Date: 9/14/00

Well ID: MW-17 Sampling Zone: 4 Starting Time: 1034 Finishing Time: 1129

Technicians: T. Turpyn-Keasler, J. Donnay

Pressure Reading Inside MP Casing in psia (Beginning of Session): 108.61 psia (End of Session): 108.69 psia

	Surface Function Checks					Position Sampler	Sample Collection Checks at the Surface							Comments
Run No.	Activate Shoe	Close Valve Check Vacuum	Open Valve	Evacuate Sample Containers	Close Valve	Deactivate Shoe Retract Arm Locate Port	Pressure in MP Casing (psia)	Activate Shoe	Valve Open Time	Valve Closed Time	Deactivate Shoe	Pressure in MP Casing (psia)	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	108.61	✓	1042	1048	✓	108.68	1.0	1st RUN; INITIAL PARAMETERS NTUs = 3.15
2	✓	✓	✓	✓	✓	✓	108.63	✓	1110	1116	✓	108.69	1.0	COLLECT MW-005-034 VOCs, Cr_{tot}, Cr^{+6}, ClO_4^-
3														
4														
5														
6														
7														
8														

Total Volume: 2.0 L

Comments: Pressure Outside MP Casing = 130.35 psia

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-17 Depth: 726 Date: 9/in/00

Well ID: MW-17 Sampling Zone: 5 Starting Time: 0907 Finishing Time: 1025

Technicians: T. Turpyn-Keasler, J. Donnay

Pressure Reading Inside MP Casing in psia (Beginning of Session): 170.75 psia (End of Session): 170.78 psia

	Surface Function Checks					Position Sampler	Sample Collection Checks at the Surface							Comments
Run No.	Activate Shoe	Close Valve Check Vacuum	Open Valve	Evacuate Sample Containers	Close Valve	Deactivate Shoe Retract Arm Locate Port	Pressure in MP Casing (psia)	Activate Shoe	Valve Open Time	Valve Closed Time	Deactivate Shoe	Pressure in MP Casing (psia)	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	170.75	✓	0922	0929	✓	170.80	0.75 ~~1.0~~ (1)	1st RUN; INITIAL PARAMETERS NTUs = 9.15
2	✓	✓	✓	✓	✓	✓	170.74	✓	1005	1009	✓	170.78	0.75 ~~1.0~~ (1)	COLLECT MW-003-033 ClO_4^-, VOCs
3														
4														
5														
6														
7														
8														

Total Volume: ~~1.75~~ 1.50 (1) l

Comments: Pressure Outside MP Casing = 188.85 psia

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project: JPL G.W Sampling Location: MW-18 Depth: 330 Date: 9/18/00

Well ID: MW-18 Sampling Zone: 2 Starting Time: 1420 Finishing Time: 1500

Technicians: T. Turpyn-Keasler, J. Donnay

Pressure Reading Inside MP Casing in psia (Beginning of Session): 14.14 psia (End of Session): 14.14 psia

	Surface Function Checks					Position Sampler	Sample Collection Checks at the Surface							Comments
Run No.	Activate Shoe	Close Valve Check Vacuum	Open Valve	Evacuate Sample Containers	Close Valve	Deactivate Shoe Retract Arm Locate Port	Pressure in MP Casing (psia)	Activate Shoe	Valve Open Time	Valve Closed Time	Deactivate Shoe	Pressure in MP Casing (psia)	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	14.10 ✓	✓	1430	1433	✓	14.12	1.0	1ST RUN; INITIAL PARAMETERS NTUs = 4.06
2	✓	✓	✓	✓	✓	✓	14.12	✓	1448	1450	✓	14.12	1.0	COLLECT MW-003-082 VOCs, Cr TOT, Cr6, ClO4-
3														
4														
5														
6														
7														
8														

Total Volume: 2.0 l

Comments: Pressure Outside MP Casing = 38.45 psia

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project: JPL G.W. Sampling Location: MW-18 Depth: 424 Date: 9/18/00

Well ID: MW-18 Sampling Zone: 3 Starting Time: 1330 Finishing Time: 1415

Technicians: T. Turpyn-Keasler, J. Donnay

Pressure Reading Inside MP Casing in psia (Beginning of Session): 35.80 psia (End of Session): 35.80 psia

	Surface Function Checks					Position Sampler	Sample Collection Checks at the Surface							Comments
Run No.	Activate Shoe	Close Valve Check Vacuum	Open Valve	Evacuate Sample Containers	Close Valve	Deactivate Shoe Retract Arm Locate Port	Pressure in MP Casing (psia)	Activate Shoe	Valve Open Time	Valve Closed Time	Deactivate Shoe	Pressure in MP Casing (psia)	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	35.81	✓	1334	1336	✓	35.82	1.0	1st RUN; INITIAL PARAMETERS NTUs = 0.76
2	✓	✓	✓	✓	✓	✓	35.80	✓	1357	1401	✓	35.82	1.0	COLLECT MW-003-031 VOCs, Cr^{+6}, Cr^{TOT}, ClO_4^-
3														
4														
5														
6														
7														
8														

Total Volume: 2.0 l

Comments: Pressure Outside MP Casing = 76.59 psia

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project: JPL G.W. Sampling Location: MW-18 Depth: 564 Date: 9/18/00

Well ID: MW-18 Sampling Zone: 4 Starting Time: 0940 Finishing Time: 1058

Technicians: T. Turpyn-Kensler, J. Donnay

Pressure Reading Inside MP Casing in psia (Beginning of Session): 96.61 psia (End of Session): 96.65 psia

	Surface Function Checks					Position Sampler	Sample Collection Checks at the Surface							Comments
Run No.	Activate Shoe	Close Valve Check Vacuum	Open Valve	Evacuate Sample Containers	Close Valve	Deactivate Shoe Retract Arm Locate Port	Pressure in MP Casing (psia)	Activate Shoe	Valve Open Time	Valve Closed Time	Deactivate Shoe	Pressure in MP Casing (psia)	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	96.61	✓	0950	0952	✓	96.63	1.0	1st RUN; INITIAL PARAMETERS NTUs ~ 0.90
2	✓	✓	✓	✓	✓	✓	96.63	✓	0948	1050 09	✓	96.65	1.0	COLLECT MW-003-030 VOCs, ClO4-, Cr+6, Carbs
3														
4														
5														
6														
7														
8														

Total Volume: 2.0 l

Comments: Pressure Outside MP Casing = 123.52 psia

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project: JPL G.W. Sampling Location: MW-18 Depth: 684 Date: 9/18/00

Well ID: MW-18 Sampling Zone: 5 Starting Time: 0838 Finishing Time: 0930

Technicians: T. Turpyn-Keesler, J. Donnay

Pressure Reading Inside MP Casing in psia (Beginning of Session): 148.31 psia (End of Session): 148.32 psia

	Surface Function Checks					Position Sampler	Sample Collection Checks at the Surface							Comments
Run No.	Activate Shoe	Close Valve Check Vacuum	Open Valve	Evacuate Sample Containers	Close Valve	Deactivate Shoe Retract Arm Locate Port	Pressure in MP Casing (psia)	Activate Shoe	Valve Open Time	Valve Closed Time	Deactivate Shoe	Pressure in MP Casing (psia)	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	148.31	✓	0850	0852	✓	148.33	0.75	1st RUN; INITIAL PARAMETERS NTUs = 1.13
2	✓	✓	✓	✓	✓	✓	148.30	✓	0919	0921	✓	148.32	0.75	COLLECT MW-003-029 ClO_4^-, VOCs
3														
4														
5														
6														
7														
8														

Total Volume: 1.5 l

Comments: Pressure Outside MP Casing = 168.25 psia

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project: JPL GW Monitoring Location: MW-19 Depth: 242 Date: 9/19/00

Well ID: MW-19 Sampling Zone: 1 Starting Time: 1239 Finishing Time: 1316

Technicians: T. Turpyn-Kaesler, J. Donnay

Pressure Reading Inside MP Casing in psia (Beginning of Session): 14.16 psia (End of Session): 14.15 psia

	Surface Function Checks					Position Sampler	Sample Collection Checks at the Surface							Comments
Run No.	Activate Shoe	Close Valve Check Vacuum	Open Valve	Evacuate Sample Containers	Close Valve	Deactivate Shoe Retract Arm Locate Port	Pressure in MP Casing (psia)	Activate Shoe	Valve Open Time	Valve Closed Time	Deactivate Shoe	Pressure in MP Casing (psia)	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	14.16	✓	1248	1251	✓	14.15	0.75	1st RUN; INITIAL PARAMETERS NTUs = 3.92
2	✓	✓	✓	✓	✓	✓	14.16	✓	1307	1310	✓	14.15	0.75	COLLECT MW-003-028 VOCs, ClO4-
3														
4														
5														
6														
7														
8														

Total Volume: 1.5 l

Comments: Pressure Outside MP Casing = 36.65 psia

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project: JPL GW Monitoring Location: MW-19 Depth: 314 Date: 9/19/00

Well ID: MW-19 Sampling Zone: 2 Starting Time: 1203 Finishing Time: 1230

Technicians: T. Turpyn-Keasler, J. Donnay

Pressure Reading Inside MP Casing in psia (Beginning of Session): 14.19 psia (End of Session): 14.22 psia

	Surface Function Checks					Position Sampler	Sample Collection Checks at the Surface							Comments
Run No.	Activate Shoe	Close Valve Check Vacuum	Open Valve	Evacuate Sample Containers	Close Valve	Deactivate Shoe Retract Arm Locate Port	Pressure in MP Casing (psia)	Activate Shoe	Valve Open Time	Valve Closed Time	Deactivate Shoe	Pressure in MP Casing (psia)	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	14.19	✓	1205	1208	✓	14.21	0.75	1st RUN; INITIAL PARAMETERS NTUs = 3.53
2	✓	✓	✓	✓	✓	✓	14.19	✓	1221	1224	✓	14.22	0.75	COLLECT MW-003-027 VOCs, ClO_4^-
3														
4														
5														
6														
7														
8														

Total Volume: 1.5 l

Comments: Pressure Outside MP Casing = 63.17 psia

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project: JPL GW Monitoring Location: MW-19 Depth: 392 Date: 9/19/00

Well ID: MW-19 Sampling Zone: 3 Starting Time: 1111 Finishing Time: 1148

Technicians: T. Turpyn-Keasler, J. Donaway

Pressure Reading Inside MP Casing in psia (Beginning of Session): 33.54 psia (End of Session): 33.55 psia

	Surface Function Checks					Position Sampler	Sample Collection Checks at the Surface							Comments
Run No.	Activate Shoe	Close Valve Check Vacuum	Open Valve	Evacuate Sample Containers	Close Valve	Deactivate Shoe Retract Arm Locate Port	Pressure in MP Casing (psia)	Activate Shoe	Valve Open Time	Valve Closed Time	Deactivate Shoe	Pressure in MP Casing (psia)	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	33.54	✓	1116	1118	✓	33.56	1.0 ~~0.75~~	1ST RUN; INITIAL PARAMETERS NTUS = 9.5
2	✓	✓	✓	✓	✓	✓	33.53	✓	1138	1141	✓	33.55	0.0	COLLECT MW-003-026 MS/MSD VOCs, ClO_4^-
3														
4														
5														
6														
7														
8														

Total Volume: 2.0 l

Comments: Pressure Outside MP Casing = 94.63 psia

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project: JPL G.W Monitoring Location: MW-19 Depth: 444 Date: 9/19/00

Well ID: MW-19 Sampling Zone: 4 Starting Time: 1019 Finishing Time: 1059

Technicians: T. Turpyn-Keasler, J. Donnay

Pressure Reading Inside MP Casing in psia (Beginning of Session): 55.63 psia (End of Session): 55.67 psia

	Surface Function Checks					Position Sampler	Sample Collection Checks at the Surface							Comments
Run No.	Activate Shoe	Close Valve Check Vacuum	Open Valve	Evacuate Sample Containers	Close Valve	Deactivate Shoe Retract Arm Locate Port	Pressure in MP Casing (psia)	Activate Shoe	Valve Open Time	Valve Closed Time	Deactivate Shoe	Pressure in MP Casing (psia)	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	55.63	✓	1028	1030	✓	55.65	0.75	1st run, initial parameters NTUs = 1.23
2	✓	✓	✓	✓	✓	✓	55.64	✓	1050	1052	✓	55.67	0.75	collect MW-003-025 VOCs, ClO4-
3														
4														
5														
6														
7														
8														

Total Volume: 1.5 l

Comments: Pressure Outside MP Casing = 71.19 psia

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project: JPL G.W Monitoring Location: MW-19 Depth: 498 Date: 9/19/00

Well ID: MW-19 Sampling Zone: 5 Starting Time: 0910 Finishing Time: 0954

Technicians: T. Turpyn-Keusler, J. Donnay

Pressure Reading Inside MP Casing in psia (Beginning of Session): 79.23 ~~80.09~~ psia (End of Session): 79.25 psia

	Surface Function Checks					Position Sampler	Sample Collection Checks at the Surface							Comments
Run No.	Activate Shoe	Close Valve Check Vacuum	Open Valve	Evacuate Sample Containers	Close Valve	Deactivate Shoe Retract Arm Locate Port	Pressure in MP Casing (psia)	Activate Shoe	Valve Open Time	Valve Closed Time	Deactivate Shoe	Pressure in MP Casing (psia)	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	79.23 ~~80.09~~	✓	0922	0924	✓	79.26	0.75	1st RUN; INITIAL PARAMETERS NTUs = 1.69
2	✓	✓	✓	✓	✓	✓	79.23	✓	0943	0946	✓	79.25	0.75	COLLECT MW-005-024 VOCs, ClO_4^-
3														
4														
5														
6														
7														
8														

Total Volume: 1.5 L

Comments: Pressure Outside MP Casing = 92.84 psia

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project: JPL GW MONITORING Location: MW-20 Depth: 392 Date: 9/20/00

Well ID: MW-20 Sampling Zone: 2 Starting Time: 1155 Finishing Time: 1233

Technicians: T. Turpyn-Keasler, J. Downey

Pressure Reading Inside MP Casing in psia (Beginning of Session): 42.40 psia (End of Session): 42.43 psia

	Surface Function Checks					Position Sampler	Sample Collection Checks at the Surface							Comments
Run No.	Activate Shoe	Close Valve Check Vacuum	Open Valve	Evacuate Sample Containers	Close Valve	Deactivate Shoe Retract Arm Locate Port	Pressure in MP Casing (psia)	Activate Shoe	Valve Open Time	Valve Closed Time	Deactivate Shoe	Pressure in MP Casing (psia)	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	42.40	✓	1204	1207	✓	42.42	1.0	(SE RUN) INITIAL PARAMETERS NTUs = 0.93
2	✓	✓	✓	✓	✓	✓	42.40	✓	1225	1228	✓	42.43	1.0	COLLECT MW-003-022 VOCs, C_{VFOT}, ClO_4^-, Cr^{+6}
3														
4														
5														
6														
7														
8														

Total Volume: 2.0 l

Comments: Pressure Outside MP Casing = 85.11 psia

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project: JPL GW Location: MW-20 Depth: 230 Date: 9/20/00

Well ID: MW-20 Sampling Zone: 1 Starting Time: 1248 Finishing Time: 1355

Technicians: T. Turpin-Keasler, J. Donnay

Pressure Reading Inside MP Casing in psia (Beginning of Session): 14.10 psia (End of Session): 14.11 psia

	Surface Function Checks					Position Sampler	Sample Collection Checks at the Surface							Comments
Run No.	Activate Shoe	Close Valve Check Vacuum	Open Valve	Evacuate Sample Containers	Close Valve	Deactivate Shoe Retract Arm Locate Port	Pressure in MP Casing (psia)	Activate Shoe	Valve Open Time	Valve Closed Time	Deactivate Shoe	Pressure in MP Casing (psia)	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	14.10	✓	1248	1255	✓	14.11	1.0	1st RUN; INITIAL PARAMETERS NTUs = 3.77
2	✓	✓	✓	✓	✓	✓	14.12	✓	1308	1315	✓	14.11	1.0	COLLECT MW-003-023 VOCs, Cr^{+6}, ~~Cr_{TOT}~~, ClO_4^-
3	✓	✓	✓	✓	✓	✓	14.11	✓	1341	1348	✓	14.11	1.0	Cr_{TOT} FINAL PARAMETERS
4														
5														
6														
7														
8														

Total Volume: 3.0 l

Comments: Pressure Outside MP Casing = 15.45 psia

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project: JPL GW MONITORING Location: MW-20 Depth: 562 Date: 9/20/00

Well ID: MW-20 Sampling Zone: 3 Starting Time: 1057 Finishing Time: 1148

Technicians: T. Turpyn-Keasler, J. Donnay

Pressure Reading Inside MP Casing in psia (Beginning of Session): 116.33 psia (End of Session): 116.35 psia

	Surface Function Checks					Position Sampler	Sample Collection Checks at the Surface							Comments
Run No.	Activate Shoe	Close Valve Check Vacuum	Open Valve	Evacuate Sample Containers	Close Valve	Deactivate Shoe Retract Arm Locate Port	Pressure in MP Casing (psia)	Activate Shoe	Valve Open Time	Valve Closed Time	Deactivate Shoe	Pressure in MP Casing (psia)	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	116.33	✓	1107	1110	✓	116.36	1.0	1st RUN; INITIAL PARAMETERS NTUs - 0.40
2	✓	✓	✓	✓	✓	✓	116.39	✓	1133	1136	✓	116.35	1.0	COLLECT MW-003-02 VOCs, Cr^{+6}, Cu DOC, ClO_4^-
3														
4														
5														
6														
7														
8														

Total Volume: 2.0 l

Comments: Pressure Outside MP Casing = 146.17 psia

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project: JPL GW MONITORING Location: MW-20 Depth: 700 Date: 9/20/00

Well ID: MW-20 Sampling Zone: 4 Starting Time: 0939 Finishing Time: 1041

Technicians: T. Turpin-Keasler, J. Downey

Pressure Reading Inside MP Casing in psia (Beginning of Session): 176.45 ~~177.30~~ psia (End of Session): 176.48 psia

	Surface Function Checks					Position Sampler	Sample Collection Checks at the Surface							Comments
Run No.	Activate Shoe	Close Valve Check Vacuum	Open Valve	Evacuate Sample Containers	Close Valve	Deactivate Shoe Retract Arm Locate Port	Pressure in MP Casing (psia)	Activate Shoe	Valve Open Time	Valve Closed Time	Deactivate Shoe	Pressure in MP Casing (psia)	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	176.45 ~~177.30~~	✓	0958	1000	✓	176.48	1.0	1st RUN; INITIAL PARAMETERS NTUs = 2.3
2	✓	✓	✓	✓	✓	✓	176.43	✓	1027	1030	✓	176.48	1.0	COLLECT MW-003-020 VOCs, Cr^{+6}, ClO_4^-, Cr_{TOT}
3														
4														
5														
6														
7														
8														

Total Volume: 8.0 L

Comments: Pressure Outside MP Casing = 202.30 psia

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project: JPL GW Monitoring Location: MW-20 Depth: 900 Date: 9/20/00

Well ID: MW-20 Sampling Zone: 5 Starting Time: 0807 Finishing Time: 0929

Technicians: T. Turpyn-Keasler, J. Donnay

Pressure Reading Inside MP Casing in psia (Beginning of Session): 263.34 psia (End of Session): 263.36 psia

	Surface Function Checks					Position Sampler	Sample Collection Checks at the Surface							Comments
Run No.	Activate Shoe	Close Valve Check Vacuum	Open Valve	Evacuate Sample Containers	Close Valve	Deactivate Shoe Retract Arm Locate Port	Pressure in MP Casing (psia)	Activate Shoe	Valve Open Time	Valve Closed Time	Deactivate Shoe	Pressure in MP Casing (psia)	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	263.34	✓	0821	0823	✓	263.37	1.0	1st RUN; INITIAL PARAMETERS NTUs = 1.35
2	✓	✓	✓	✓	✓	✓	263.34	✓	0903	0910	✓	263.36	1.0	COLLECT MW-003-019 VOCs, Cr^{+6}, Cr_{TOT}, ClO_4^-
3														
4														
5														
6														
7														
8														

Total Volume: 2.0 l.

Comments: Pressure Outside MP Casing = 307.42 psia

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project: JPL G.W. MONITORING Location: MW-21 Depth: 90 Date: 9/21/00

Well ID: MW-21 Sampling Zone: 1 Starting Time: 1210 Finishing Time: 1240

Technicians: T. TURPYN-KEASLER, J. DONNAY

Pressure Reading Inside MP Casing in psia (Beginning of Session): 14.13 psia (End of Session): 14.15 psia

	Surface Function Checks					Position Sampler	Sample Collection Checks at the Surface							Comments
Run No.	Activate Shoe	Close Valve Check Vacuum	Open Valve	Evacuate Sample Containers	Close Valve	Deactivate Shoe Retract Arm Locate Port	Pressure in MP Casing (psia)	Activate Shoe	Valve Open Time	Valve Closed Time	Deactivate Shoe	Pressure in MP Casing (psia)	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	14.13	✓	1213	1218	✓	14.13	0.75	1st RUN; INITIAL PARAMETERS NTUs = 0.55
2	✓	✓	✓	✓	✓	✓	14.11	✓	1228	1233	✓	14.15	0.75	COLLECT MW-003-018 VOCs, ClO_4^-
3														
4														
5														
6														
7														
8														

Total Volume: 1.5 l

Comments: Pressure Outside MP Casing = 15.40 psia

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project: JPL GW MONITORING Location: MW-21 Depth: 161 Date: 9/21/00

Well ID: MW-21 Sampling Zone: 2 Starting Time: 1135 Finishing Time: 1205

Technicians: T. TURPIN-KEASLER, J. DONNAN

Pressure Reading Inside MP Casing in psia (Beginning of Session): 34.29 psia (End of Session): 34.31 psia

	Surface Function Checks					Position Sampler	Sample Collection Checks at the Surface							Comments
Run No.	Activate Shoe	Close Valve Check Vacuum	Open Valve	Evacuate Sample Containers	Close Valve	Deactivate Shoe Retract Arm Locate Port	Pressure in MP Casing (psia)	Activate Shoe	Valve Open Time	Valve Closed Time	Deactivate Shoe	Pressure in MP Casing (psia)	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	34.29	✓	1140	1144	✓	34.31	0.75	1st RUN; INITIAL PARAMETERS NTUs = 0.45
2	✓	✓	✓	✓	✓	✓	34.29	✓	1156	1158	✓	34.31	0.75	COLLECT MW-003-047 VOCs, ClO4-
3														
4														
5														
6														
7														
8														

Total Volume: 1.5 l

Comments: Pressure Outside MP Casing = 46.19 psia

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project: JPL G.W MONITORING Location: MW-21 Depth: 240 Date: 9/21/00

Well ID: MW-21 Sampling Zone: 3 Starting Time: 1051 Finishing Time: 1130

Technicians: T. TURPIN-KEASLER, J. DONNAY

Pressure Reading Inside MP Casing in psia (Beginning of Session): 68.69 psia (End of Session): 68.70 psia

	Surface Function Checks					Position Sampler	Sample Collection Checks at the Surface							Comments
Run No.	Activate Shoe	Close Valve Check Vacuum	Open Valve	Evacuate Sample Containers	Close Valve	Deactivate Shoe Retract Arm Locate Port	Pressure in MP Casing (psia)	Activate Shoe	Valve Open Time	Valve Closed Time	Deactivate Shoe	Pressure in MP Casing (psia)	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	68.69	✓	1058	1100	✓	68.71	0.75	1ST RUN, INITIAL PARAMETERS NTUs=1.91
2	✓	✓	✓	✓	✓	✓	68.68	✓	1117	1119	✓	68.70	0.75	COLLECT MW-003-016 VOCs, ClO4-
3														
4														
5														
6														
7														
8														

Total Volume: 1.5 l

Comments: Pressure Outside MP Casing = 80.18 psia

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project: JPL G.W Monitoring Location: MW-21 Depth: 310 Date: 9/21/00

Well ID: MW-21 Sampling Zone: 4 Starting Time: 0958 Finishing Time: 1042

Technicians: T. Turpin-Keasler, J. Donnay

Pressure Reading Inside MP Casing in psia (Beginning of Session): 98.72 psia (End of Session): 98.73 psia

	Surface Function Checks					Position Sampler	Sample Collection Checks at the Surface							Comments
Run No.	Activate Shoe	Close Valve Check Vacuum	Open Valve	Evacuate Sample Containers	Close Valve	Deactivate Shoe Retract Arm Locate Port	Pressure in MP Casing (psia)	Activate Shoe	Valve Open Time	Valve Closed Time	Deactivate Shoe	Pressure in MP Casing (psia)	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	98.72	✓	1012	1015	✓	98.74	0.75	(SERVIN) INITIAL PARAMETERS NTUs - 7.71
2	✓	✓	✓	✓	✓	✓	98.71	✓	1035	1037	✓	98.73	0.75	COLLECT MW-003-015 VOCs, ClO_4^-
3														
4														
5														
6														
7														
8														

Total Volume: 1.5 l

Comments: Pressure Outside MP Casing = 109.99 psia

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-21 Depth: 372 Date: 9/19/00

Well ID: MW-21 Sampling Zone: 5 Starting Time: 0915 Finishing Time: 0955

Technicians: T. Turpin-Keasler, J. Donnay

Pressure Reading Inside MP Casing in psia (Beginning of Session): 125.75 psia (End of Session): 125.76 psia

	Surface Function Checks					Position Sampler	Sample Collection Checks at the Surface							Comments
Run No.	Activate Shoe	Close Valve Check Vacuum	Open Valve	Evacuate Sample Containers	Close Valve	Deactivate Shoe Retract Arm Locate Port	Pressure in MP Casing (psia)	Activate Shoe	Valve Open Time	Valve Closed Time	Deactivate Shoe	Pressure in MP Casing (psia)	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	125.75	✓	0923	0925	✓	125.76	~~1.0~~ .75	(2nd RUN; INITIAL PARAMETERS NTUs = 9.62
2	✓	✓	✓	✓	✓	✓	125.75	✓	0944	0948	✓	125.76	~~1.0~~ .75	COLLECT MW-003-014 VOCs, ClO4 -
3														
4														
5														
6														
7														
8														

Total Volume: 1.5 l

Comments: Pressure Outside MP Casing = 136.84 psia

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-22 Depth: 245 Date: 9/12/00

Well ID: MW-22 Sampling Zone: 1 Starting Time: 1355 Finishing Time: 1430

Technicians: T. Turpin-Keasler, J. Downey

Pressure Reading Inside MP Casing in psia (Beginning of Session): 14.19 psia (End of Session): 14.18 psia

	Surface Function Checks					Position Sampler	Sample Collection Checks at the Surface							Comments
Run No.	Activate Shoe	Close Valve Check Vacuum	Open Valve	Evacuate Sample Containers	Close Valve	Deactivate Shoe Retract Arm Locate Port	Pressure in MP Casing (psia)	Activate Shoe	Valve Open Time	Valve Closed Time	Deactivate Shoe	Pressure in MP Casing (psia)	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	14.19	✓	1358	1403	✓	14.20	0.75	1st RUN; INITIAL PARAMETER NTUs = 9.65
2	✓	✓	✓	✓	✓	✓	14.17	✓	1419	1425	✓	14.20	1.0	2nd RUN; COLLECT MW-03-03 ClO4, Extra Cu, VOCs
3	✓	✓	✓	✓	✓	✓	14.17	✓	1444	1448	✓	14.18	0.5	FINAL PARAMETERS NO/MSD FOR RUN 01
4														
5														
6														
7														
8														

Total Volume: 2.25 L

Comments: Pressure Outside MP Casing = 31.67 psia

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-22 Depth: 329 Date: 9/12/00

Well ID: MW-22 Sampling Zone: 2 Starting Time: 1305 Finishing Time: 1343

Technicians: T. Turpijn-Keasler, J. Donnay

Pressure Reading Inside MP Casing in psia (Beginning of Session): 22.39 psia (End of Session): 22.40 psia

	Surface Function Checks					Position Sampler	Sample Collection Checks at the Surface							Comments
Run No.	Activate Shoe	Close Valve Check Vacuum	Open Valve	Evacuate Sample Containers	Close Valve	Deactivate Shoe Retract Arm Locate Port	Pressure in MP Casing (psia)	Activate Shoe	Valve Open Time	Valve Closed Time	Deactivate Shoe	Pressure in MP Casing (psia)	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	22.39	✓	1311	1316	✓	22.41	1.0	1st RUN; INITIAL PARAMETERS NTUs = 1.8
2	✓	✓	✓	✓	✓	✓	22.39	✓	1333	1337	✓	22.40	1.0	COLLECT MW-003-012 Cr^{6+}, ClO_4^-, VOCs [illegible]
3														
4														
5														
6														
7														
8														

Total Volume: 2.0

Comments: Pressure Outside MP Casing = 67.16 psia

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-22 Depth: 389 Date: 9/12/00

Well ID: MW-22 Sampling Zone: 3 Starting Time: 1218 Finishing Time: 1255

Technicians: T. Turpyn-Keasler, J. Donnay

Pressure Reading Inside MP Casing in psia (Beginning of Session): 47.47 psia (End of Session): 47.96 psia

	Surface Function Checks					Position Sampler	Sample Collection Checks at the Surface							Comments
Run No.	Activate Shoe	Close Valve Check Vacuum	Open Valve	Evacuate Sample Containers	Close Valve	Deactivate Shoe Retract Arm Locate Port	Pressure in MP Casing (psia)	Activate Shoe	Valve Open Time	Valve Closed Time	Deactivate Shoe	Pressure in MP Casing (psia)	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	47.47	✓	1222	1225	✓	47.52	0.50	1st RUN TO SCREEN 4 INITIAL PARAMETER; NTU's = 5.3
2	✓	✓	✓	✓	✓	✓	47.90	✓	1245	1249	✓	47.96	0.75	2nd RUN COLLECT MW-003-011 ClO_4^-, VOCs; FINAL PARAMETERS
3														
4														
5														
6														
7														
8														

Total Volume: 1.25 l

Comments: Pressure Outside MP Casing = 93.29 psia

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-22 Depth: ~~588~~ 467 Date: 9/12/00

Well ID: MW-22 Sampling Zone: 4 Starting Time: 1123 Finishing Time: 1205

Technicians: T. Turpyn-Keasler, J. Donnay

Pressure Reading Inside MP Casing in psia (Beginning of Session): 14.14 psia (End of Session): 14.14 psia

	Surface Function Checks					Position Sampler	Sample Collection Checks at the Surface							Comments
Run No.	Activate Shoe	Close Valve Check Vacuum	Open Valve	Evacuate Sample Containers	Close Valve	Deactivate Shoe Retract Arm Locate Port	Pressure in MP Casing (psia)	Activate Shoe	Valve Open Time	Valve Closed Time	Deactivate Shoe	Pressure in MP Casing (psia)	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	81.36	✓	1131	1133	✓	81.42	0.5	1st RUN; INITIAL P ARAMETERS NTUs = 2.4
2	✓	✓	✓	✓	✓	✓	81.39	✓	1158	1200	✓	81.43	0.5	2nd RUN; COLLECT MW-003-010 ~~VOCs~~; ClO_4 FINAL PARAMETERS
3														
4														
5														
6														
7														
8														

Total Volume: 1.0 l

Comments: Pressure Outside MP Casing = 119.05 psia

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project: JPL GW MONITORING Location: MW-23 Depth: 174 Date: 9/26/00

Well ID: MW-23 Sampling Zone: 1 Starting Time: 1130 Finishing Time: 1215

Technicians: T. Turpyn-Keesler, J. Donnay

Pressure Reading Inside MP Casing in psia (Beginning of Session): 14.17 psia (End of Session): 14.23

	Surface Function Checks					Position Sampler	Sample Collection Checks at the Surface							Comments
Run No.	Activate Shoe	Close Valve Check Vacuum	Open Valve	Evacuate Sample Containers	Close Valve	Deactivate Shoe Retract Arm Locate Port	Pressure in MP Casing (psia)	Activate Shoe	Valve Open Time	Valve Closed Time	Deactivate Shoe	Pressure in MP Casing (psia)	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	14.17	✓	1135	1138	✓	14.20	1.0	1ST RUN; INITIAL PARAMETERS NTUs ~ 9.16
2	✓	✓	✓	✓	✓	✓	14.18	✓	1156	1201	✓	14.23	1.0	COLLECT MW-003-009 ClO_4^-, VOCs, Cr^{+6}, Cr^{tot}
3														
4														
5														
6														
7														
8														

Total Volume: 2.0 L

Comments: Pressure Outside MP Casing = 28.47 psia

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project: JPL GW MONITORING Location: MW-23 Depth: 254 Date: 9/26/00

Well ID: ~~X~~ MW-23 Sampling Zone: ~~4~~ 2 Starting Time: 1043 Finishing Time: 1125

Technicians: T. Turpin, Keasler, J. Donnay

Pressure Reading Inside MP Casing in psia (Beginning of Session): 35.26 psia (End of Session): 35.29 psia

	Surface Function Checks					Position Sampler	Sample Collection Checks at the Surface							Comments
Run No.	Activate Shoe	Close Valve Check Vacuum	Open Valve	Evacuate Sample Containers	Close Valve	Deactivate Shoe Retract Arm Locate Port	Pressure in MP Casing (psia)	Activate Shoe	Valve Open Time	Valve Closed Time	Deactivate Shoe	Pressure in MP Casing (psia)	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	35.26	✓	1050	1053	✓	35.26	1.0	1st RUN; INITIAL PARAMETERS NTU5 = 1.72
2	✓	✓	✓	✓	✓	✓	35.26	✓	1109	1111	✓	35.29	1.0	COLLECT MW-003-007 VOCs, ClO4-, Cr+6, Cr TOT
3														
4														
5														
6														
7														
8														

Total Volume: 2.0 l

Comments: Pressure Outside MP Casing = 61.54 psia

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project: JPL GW Monitoring Location: MW-23 Depth: 319 Date: 9/26/00

Well ID: MW-23 Sampling Zone: 3 Starting Time: 0954 Finishing Time: 1030

Technicians: T. Turpin-Keasler, J. Donnay

Pressure Reading Inside MP Casing in psia (Beginning of Session): 63.59 psia (End of Session): 63.63 psia

	Surface Function Checks					Position Sampler	Sample Collection Checks at the Surface							Comments
Run No.	Activate Shoe	Close Valve Check Vacuum	Open Valve	Evacuate Sample Containers	Close Valve	Deactivate Shoe Retract Arm Locate Port	Pressure in MP Casing (psia)	Activate Shoe	Valve Open Time	Valve Closed Time	Deactivate Shoe	Pressure in MP Casing (psia)	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	63.59	✓	1000	1003	✓	63.61	1.0	1st RUN; INITIAL PARAMETERS NTUs = 1.16
2	✓	✓	✓	✓	✓	✓	63.60	✓	1021	1024	✓	63.63	1.0	COLLECT MW-003-007 VOCs, ClO_4^-, Cr^{+6}, Cr TOT
3														
4														
5														
6														
7														
8														

Total Volume: 2.0 L

Comments: Pressure Outside MP Casing = 89.42 psia

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project: JPL GW Monitoring Location: MW-23 Depth: 445 Date: 9/26/00

Well ID: MW23 Sampling Zone: 4 Starting Time: 0905 Finishing Time: 0945

Technicians: T. Turpyn-Keasler, J. Donnay

Pressure Reading Inside MP Casing in psia (Beginning of Session): 117.84 psia (End of Session): 117.89 psia

	Surface Function Checks					Position Sampler	Sample Collection Checks at the Surface							Comments
Run No.	Activate Shoe	Close Valve Check Vacuum	Open Valve	Evacuate Sample Containers	Close Valve	Deactivate Shoe Retract Arm Locate Port	Pressure in MP Casing (psia)	Activate Shoe	Valve Open Time	Valve Closed Time	Deactivate Shoe	Pressure in MP Casing (psia)	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	117.84	✓	0914	0917	✓	117.88	0.75	1st RUN; INITIAL PARAMETERS NTUs = 1.07
2	✓	✓	✓	✓	✓	✓	117.85	✓	0935	0937	✓	117.89	0.75	COLLECT MW-003-006 Cr^{+6}, Cr_{TOT}, ClO_4^-
3														
4														
5														
6														
7														
8														

Total Volume: 1.5 l

Comments: Pressure Outside MP Casing = 134.64 psia

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project: JPL GW Monitoring Location: MW-23 Depth: 542 Date: 9/26/00

Well ID: MW-23 Sampling Zone: 5 Starting Time: 0808 Finishing Time: 0900

Technicians: T. Turpyn-Keasler, J. Donnay

Pressure Reading Inside MP Casing in psia (Beginning of Session): 160.04 psia (End of Session): 160.06 psia

	Surface Function Checks					Position Sampler	Sample Collection Checks at the Surface							Comments
Run No.	Activate Shoe	Close Valve Check Vacuum	Open Valve	Evacuate Sample Containers	Close Valve	Deactivate Shoe Retract Arm Locate Port	Pressure in MP Casing (psia)	Activate Shoe	Valve Open Time	Valve Closed Time	Deactivate Shoe	Pressure in MP Casing (psia)	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	160.04	✓	0816	0820	✓	160.05	0.75	1st RUN; INITIAL PARAMETERS NTUs = 1.31
2	✓	✓	✓	✓	✓	✓	160.02	✓	0843	0846	✓	160.06	0.75	COLLECT MW-003-005 ClO_4^-
3														
4														
5														
6														
7														
8														

Total Volume: 1.5 l

Comments: Pressure Outside MP Casing = 176.57 psia

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project: JPL GW Monitoring Location: MW-24 Depth: 279 Date: ~~9/28/00~~ 10/10/00

Well ID: MW-24 Sampling Zone: 1 Starting Time: 1301 Finishing Time: 1340

Technicians: T. Torpyn-Keasler, J. Donnay

Pressure Reading Inside MP Casing in psia (Beginning of Session): 14.18 psia (End of Session): 14.18 psia

	Surface Function Checks					Position Sampler	Sample Collection Checks at the Surface							Comments
Run No.	Activate Shoe	Close Valve Check Vacuum	Open Valve	Evacuate Sample Containers	Close Valve	Deactivate Shoe Retract Arm Locate Port	Pressure in MP Casing (psia)	Activate Shoe	Valve Open Time	Valve Closed Time	Deactivate Shoe	Pressure in MP Casing (psia)	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	14.18	✓	1313 (TI) ~~1306~~	1317	✓	14.18	1.0	1st RUN; INITIAL PARAMETERS NTUs = 14.45
2	✓	✓	✓	✓	✓	✓	14.17	✓	1330	1335	✓	14.19	1.0	COLLECT MW-003-002 VOCs, Cr^{TOT}, Cr^{+6}, ClO_4^-
3														
4														
5														
6														
7														
8														

Total Volume: 2.0 L

Comments: Pressure Outside MP Casing = 33.17 (TI) ~~15.20~~ psia

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project: JPL GW Monitoring Location: MW-24 Depth: 373 Date: 10/10/00

Well ID: MW-24 Sampling Zone: 2 Starting Time: 1134 Finishing Time: 1258

Technicians: T. Turpyn-Keasler, J. Donnay

Pressure Reading Inside MP Casing in psia (Beginning of Session): 37.00 psia (End of Session): 37.00 psia

	Surface Function Checks					Position Sampler	Sample Collection Checks at the Surface							Comments
Run No.	Activate Shoe	Close Valve Check Vacuum	Open Valve	Evacuate Sample Containers	Close Valve	Deactivate Shoe Retract Arm Locate Port	Pressure in MP Casing (psia)	Activate Shoe	Valve Open Time	Valve Closed Time	Deactivate Shoe	Pressure in MP Casing (psia)	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	37.00	✓	1141	1146	✓	37.02	1.0	1st RUN, INITIAL PARAMETERS NTUs = 13.4
2	✓	✓	✓	✓	✓	✓	37.01	✓	1204	1210	✓	37.00	1.0	NTUs = 12.75
3	✓	✓	✓	✓	✓	✓	37.00	✓	1224	1227	✓	37.01	~~1.0~~ .25	~~COLLECT MW-003-003 VOCs, Cr TOT, Cr TOT, ClO4-~~
4	✓	✓	✓	✓	✓	✓	36.99	✓	1241	1246	✓	37.00	1.0	COLLECT MW-003-003 VOCs, Cr TOT, Cr TOT, ClO4-
5														
6														
7														
8														

Total Volume: 3.25 l

Comments: Pressure Outside MP Casing = 72.44 psia

Valve closed after 1st bottle on 3rd run, not enough volume for sample

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project: JPL GW Monitoring Location: MW-24 Depth: 435 Date: 9/28/00

Well ID: MW-24 Sampling Zone: 3 Starting Time: 1019 Finishing Time: 1105

Technicians: T. Turpyn-Keasler, J. Donna

Pressure Reading Inside MP Casing in psia (Beginning of Session): 64.05 psia (End of Session): 64.09 psia

	Surface Function Checks					Position Sampler	Sample Collection Checks at the Surface							Comments
Run No.	Activate Shoe	Close Valve Check Vacuum	Open Valve	Evacuate Sample Containers	Close Valve	Deactivate Shoe Retract Arm Locate Port	Pressure in MP Casing (psia)	Activate Shoe	Valve Open Time	Valve Closed Time	Deactivate Shoe	Pressure in MP Casing (psia)	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	64.05	✓	1027	1032	✓	64.09	1.0	1st RUN; INITIAL PARAMETERS NTUs = 14.98
2	✓	✓	✓	✓	✓	✓	64.09	✓	1052	1056	✓	64.09	1.0	COLLECT MW-003-002 VOCs, C_{vi}^{+6}, C_{vi}^{TOT}, ClO$_4$
3														
4														
5														
6														
7														
8														

Total Volume: 2.0 L

Comments: Pressure Outside MP Casing = 98.32 psia

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-24 Depth: ~~373~~ 554 (II) Date: 9/28/00

Well ID: MW-24 Sampling Zone: 4 Starting Time: 0925 Finishing Time: 1018

Technicians: T. Turpyn-Keasler, J. Donnay

Pressure Reading Inside MP Casing in psia (Beginning of Session): 115.33 psia (End of Session): 115.34 psia

	Surface Function Checks					Position Sampler	Sample Collection Checks at the Surface							Comments
Run No.	Activate Shoe	Close Valve Check Vacuum	Open Valve	Evacuate Sample Containers	Close Valve	Deactivate Shoe Retract Arm Locate Port	Pressure in MP Casing (psia)	Activate Shoe	Valve Open Time	Valve Closed Time	Deactivate Shoe	Pressure in MP Casing (psia)	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	115.33	✓	0935	0938	✓	115.33	0.75	1st RUN, INITIAL PARAMETERS NTUs = 5.64
2	✓	✓	✓	✓	✓	✓	115.33	✓	0959	1002	✓	115.34	0.75	COLLECT MW-003-001 Cr^{+6}, Cr^{tot}
3														
4														
5														
6														
7														
8														

Total Volume: 1.5 l

Comments: Pressure Outside MP Casing = 139.44 psia

APPENDIX C

FIELD INSTRUMENT CALIBRATION FORMS

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: Jet Propulsion Laboratory

Standardization by: T. Turpin-Keesler Date: 9/12/00

nstrument Manufacturer: HF Scientific Model: DRT-15CE

Serial Number: 7279 Calibration Date: 9/12/00

STANDARDIZATION

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

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

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

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

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

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

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

Comments:

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: Jet Propulsion Laboratory

Standardization by: T. Turpin-Keasler Date: 9/13/00

nstrument Manufacturer: HF Scientific Model: DRT-15CE

Serial Number: 7279 Calibration Date: 9/13/00

STANDARDIZATION

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

Time: 1390 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: Jet Propulsion Laboratory

Standardization by: T. Turpyn - Keasler Date: 9/14/00

nstrument Manufacturer: HF Scientific Model: DRT-15CE

Serial Number: 7279 Calibration Date: 9/14/00

STANDARDIZATION

Time: 0830 Scale: 10 Zero: yes Stray Light: N/A
Standard NTU: 0.02 Reading: 0.02
Standard NTU: Reading:

Time: 1400 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: Jet Propulsion Laboratory

Standardization by: _____ Date: 9/18/00

Instrument Manufacturer: HF Scientific Model: DRT-15CE

Serial Number: 7279 Calibration Date: 9/18/00

STANDARDIZATION

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

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

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

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

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

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

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

Comments: _____

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: Jet Propulsion Laboratory

Standardization by: T. Turpyn-Keusler Date: 9/19/00

nstrument Manufacturer: HF Scientific Model: ~~7279~~ DRT-15CE

Serial Number: 7279 Calibration Date: 9/19/00

STANDARDIZATION

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

Time: 1330 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:
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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: Jet Propulsion Laboratory

Standardization by: T. Turpin-Keasler Date: 9/20/00

nstrument Manufacturer: HF Scientific Model: DRT-15CE

Serial Number: 7279 Calibration Date: 9/20/00

STANDARDIZATION

Time: 0745 Scale: 10 Zero: yes Stray Light: N/A

Standard NTU: 0.02 Reading: 0.02

Standard NTU: Reading:

Time: 1400 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: Jet Propulsion Laboratory

Standardization by: T. Turpin-Keasler Date: 9/21/00

nstrument Manufacturer: HF Scientific Model: DRT-15CE

Serial Number: 7279 Calibration Date: 9/21/00

STANDARDIZATION

Time: 0845 Scale: 10 Zero: YES Stray Light: N/A

Standard NTU: 0.02 Reading: 0.02

Standard NTU: Reading:

Time: 1245 Scale: 10 Zero: YES Stray Light: N/A

Standard NTU: 0.02 Reading: 0.02

Standard NTU: Reading:

Time: Scale: Zero: Stray Light:

Standard NTU: Reading:

Standard NTU: Reading:

Time: Scale: Zero: Stray Light:

Standard NTU: Reading:

Standard NTU: Reading:

Time: Scale: Zero: Stray Light:

Standard NTU: Reading:

Standard NTU: Reading:

Time: Scale: Zero: Stray Light:

Standard NTU: Reading:

Standard NTU: Reading:

Time: Scale: Zero: Stray Light:

Standard NTU: Reading:

Standard NTU: Reading:

Comments:

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: Jet Propulsion Laboratory

Standardization by: T. Turpyn-Keasler Date: 9/25/00

nstrument Manufacturer: HF Scientific Model: DRT-15CE

Serial Number: 7279 Calibration Date: 9/25/00

STANDARDIZATION

Time: 0900 Scale: 10 Zero: yes Stray Light: N/A

Standard NTU: 0.02 Reading: 0.02

Standard NTU: Reading:

Time: 1300 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: Jet Propulsion Laboratory
Standardization by: T. Turpyn-Keesler Date: 9/26/00
nstrument Manufacturer: HF Scientific Model: DRT-15CE
Serial Number: 7279 Calibration Date: 9/26/00

STANDARDIZATION

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

Time: 1250 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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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: Jet Propulsion Laboratory

Standardization by: T. Turpin-Keesler Date: 9/27/00

nstrument Manufacturer: HF Scientific Model: DRT-15CE

Serial Number: 7279 Calibration Date: 9/27/00

STANDARDIZATION

Time: 0805 Scale: 10 Zero: yes Stray Light: N/A
Standard NTU: 0.02 Reading: 0.02
Standard NTU: Reading:

Time: 1315 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:
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Time: Scale: Zero: Stray Light:
Standard NTU: Reading:
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Time: Scale: Zero: Stray Light:
Standard NTU: Reading:
Standard NTU: Reading:

Comments:

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: Jet Propulsion Laboratory

Standardization by: T. Turpyn-Keasler Date: 9/28/00

nstrument Manufacturer: HF Scientific Model: DRT-15CE

Serial Number: 7279 Calibration Date: 9/28/00

STANDARDIZATION

Time: 0920 Scale: 10 Zero: yes Stray Light: N/A

Standard NTU: 0.02 Reading: 0.02

Standard NTU: Reading:

Time: 1320 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: Jet Propulsion Laboratory

Standardization by: Tania Turpyn-Kessler Date: 9/29/00

nstrument Manufacturer: HF Scientific Model: DRT-15CE

Serial Number: 7277 Calibration Date: 9/29/00

STANDARDIZATION

Time: 810 Scale: 10 Zero: yes Stray Light: N/A

Standard NTU: 0.02 Reading: 0.02

Standard NTU: Reading:

Time: 1230 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: Jet Propulsion Laboratory

Standardization by: Tania Turpyn-Keasler Date: 10/6/00

nstrument Manufacturer: HF Scientific Model: DRT-15CE

Serial Number: 7279 Calibration Date: 10/6/00

STANDARDIZATION

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

Time: 1100 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:
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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: Jet Propulsion Laboratory

Standardization by: T. Turpyn-Keasler Date: 10/9/00

nstrument Manufacturer: HF Scientific Model: DRT-15CE

Serial Number: 7279 Calibration Date: 10/9/00

STANDARDIZATION

Time: 0800 Scale: 10 Zero: yes Stray Light: N/A
Standard NTU: 0.02 Reading: 0.02
Standard NTU: Reading:

Time: 1320 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:
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Time: Scale: Zero: Stray Light:
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Time: Scale: Zero: Stray Light:
Standard NTU: Reading:
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Time: Scale: Zero: Stray Light:
Standard NTU: Reading:
Standard NTU: Reading:

Comments:

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: Jet Propulsion Laboratory

Standardization by: T. Turpyn-Keasler Date: 10/10/00

nstrument Manufacturer: HF Scientific Model: DRT-15CE

Serial Number: 7279 Calibration Date: 10/10/00

STANDARDIZATION

Time: 0730 Scale: 10 Zero: yes Stray Light: N/A

Standard NTU: 0.02 Reading: 0.02

Standard NTU: Reading:

Time: 1405 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: Jet Propulsion Laboratory

Standardization by: T. Turpijn-Keasler Date: 10/11/00

nstrument Manufacturer: HF Scientific Model: DRT-15CG

Serial Number: 7277 Calibration Date: 10/11/00

STANDARDIZATION

Time: 0810 Scale: 10 Zero: yes Stray Light: N/A

Standard NTU: 0.02 Reading: 0.02

Standard NTU: Reading:

Time: 1355 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:

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: Jet Propulsion Laboratory

Calibration by: T. Turpin-Keasler Date: 9/12/00

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93L09994

pH Probe Manufacturer: YSI Model: 3530

Serial Number: 99H817052

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: 95A94402

Buffer Solution Manufacturer: Calitech

Expiration Dates of Buffer Solutions: pH 4.00: 7/22/01 pH 7.00: 4/17/02 pH 10.00: 11/12/00

INSTRUMENTATION CHECK-OUT

Time: 0755 Battery Condition: GOOD

Instrument Readings with Shorting Plug in, mV: 000 Temperature: 23.4 pH: 7.00

Reference Chamber Solution Changed?: N/A

pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0800 Slope: N/A Temperature: 23.4

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

Time: 1500 Slope: N/A Temperature: 38.9

Response to Low Buffer: 6.97 Response to High Buffer: 10.02

Time: Slope: N/A Temperature:

Response to Low Buffer: Response to High Buffer:

Comments:

The calibration of the pH probe (YSI 3530) is to an accuracy of ± 0.05 pH units.
The YSI 3500 (pH/temperature/EC meter) will not calibrate properly without a pH probe that has a slope from 80-100%.

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: Jet Propulsion Laboratory

Calibration by: T. Turpyn-Keasler Date: 9/13/00

Instrument Manufacturer: YSI Model: 3500

Serial Number: 9360994

pH Probe Manufacturer: YSI Model: 3530

Serial Number: 99H817052

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: 99A94402

Buffer Solution Manufacturer: Calitech

Expiration Dates of Buffer Solutions: pH 4.00: ~~4/02~~ 7/01 pH 7.00: 4/02 pH 10.00: 11/00

INSTRUMENTATION CHECK-OUT

Time: 0830 Battery Condition: GOOD

Instrument Readings with Shorting Plug in, mV: 000 Temperature: 22.4 pH: 7.0

Reference Chamber Solution Changed?: N/A

pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0830 Slope: N/A Temperature: 22.7

Response to Low Buffer: 7.01 Response to High Buffer: 10.0

Time: 1430 Slope: N/A Temperature: 38.7

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

Time: Slope: N/A Temperature:

Response to Low Buffer: Response to High Buffer:

Comments:

The calibration of the pH probe (YSI 3530) is to an accuracy of ± 0.05 pH units.
The YSI 3500 (pH/temperature/EC meter) will not calibrate properly without a pH probe that has a slope from 80-100%.

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: Jet Propulsion Laboratory

Calibration by: T. Turpyn-Kenslor Date: 9/14/00

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93L09994

pH Probe Manufacturer: YSI Model: 3530

Serial Number: 99H817052

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: 95A94402

Buffer Solution Manufacturer: Calitech

Expiration Dates of Buffer Solutions: pH 4.00: 7/01 pH 7.00: 4/02 pH 10.00: 11/00

INSTRUMENTATION CHECK-OUT

Time: 0835 Battery Condition: GOOD

Instrument Readings with Shorting Plug in, mV: 000 Temperature: 21.8 pH: 7.0

Reference Chamber Solution Changed?: N/A

pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0835 Slope: N/A Temperature: 20.6 °C

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

Time: 1440 Slope: N/A Temperature: 34.5 °C

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

Time: Slope: N/A Temperature:

Response to Low Buffer: Response to High Buffer:

Comments:

The calibration of the pH probe (YSI 3530) is to an accuracy of ± 0.05 pH units.
The YSI 3500 (pH/temperature/EC meter) will not calibrate properly without a pH probe that has a slope from 80-100%.

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: Jet Propulsion Laboratory

Calibration by: T. Tumpijn-Keusler Date: 9/18/00

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93L09994

pH Probe Manufacturer: YSI Model: 3530

Serial Number: 99 K 817487

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: 95A94402

Buffer Solution Manufacturer: Calitech

Expiration Dates of Buffer Solutions: pH 4.00: 7/01 pH 7.00: 4/02 pH 10.00: 11/00

INSTRUMENTATION CHECK-OUT

Time: 0800 Battery Condition: GOOD

Instrument Readings with Shorting Plug in, mV: 000 Temperature: 19.2 pH: 7.0

Reference Chamber Solution Changed?: N/A

pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0800 Slope: N/A Temperature: 23.2

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

Time: 1520 Slope: N/A Temperature: 33.4

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

Time: Slope: N/A Temperature:

Response to Low Buffer: Response to High Buffer:

Comments:

The calibration of the pH probe (YSI 3530) is to an accuracy of ± 0.05 pH units.
The YSI 3500 (pH/temperature/EC meter) will not calibrate properly without a pH probe that has a slope from 80-100%.

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: Jet Propulsion Laboratory

Calibration by: T. Turpin-Keesler Date: 9/19/00

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93C09994

pH Probe Manufacturer: YSI Model: 3530

Serial Number: 99K 817487

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: 95A944402

Buffer Solution Manufacturer: Calitech

Expiration Dates of Buffer Solutions: pH 4.00: 7/01 pH 7.00: 4/02 pH 10.00: 11/00

INSTRUMENTATION CHECK-OUT

Time: 0845 Battery Condition: GOOD

Instrument Readings with Shorting Plug in, mV: 000 Temperature: 20.7 pH: 7.0

Reference Chamber Solution Changed?: N/A

pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0845 Slope: N/A Temperature: 20.7

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

Time: 1330 Slope: N/A Temperature: 35.9

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

Time: Slope: N/A Temperature:

Response to Low Buffer: Response to High Buffer:

Comments:

The calibration of the pH probe (YSI 3530) is to an accuracy of ± 0.05 pH units.
The YSI 3500 (pH/temperature/EC meter) will not calibrate properly without a pH probe that has a slope from 80-100%.

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: Jet Propulsion Laboratory

Calibration by: T. Turpyn-Keasler Date: 9/20/00

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93L09994

pH Probe Manufacturer: YSI Model: 3530

Serial Number: 99K 817487

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: 95A94402

Buffer Solution Manufacturer: Calitech

Expiration Dates of Buffer Solutions: pH 4.00: 7/01 pH 7.00: 4/02 pH 10.00: 11/00

INSTRUMENTATION CHECK-OUT

Time: 0745 Battery Condition: GOOD

Instrument Readings with Shorting Plug in, mV: 000 Temperature: 19.1 pH: 7.0

Reference Chamber Solution Changed?: N/A

pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0745 Slope: N/A Temperature: 19.1

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

Time: 1900 Slope: N/A Temperature: 30.9

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

Time: Slope: N/A Temperature:

Response to Low Buffer: Response to High Buffer:

Comments:

The calibration of the pH probe (YSI 3530) is to an accuracy of ± 0.05 pH units.
The YSI 3500 (pH/temperature/EC meter) will not calibrate properly without a pH probe that has a slope from 80-100%.

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: Jet Propulsion Laboratory

Calibration by: T. Turpyn-Keasler Date: 9/21/00

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93L0994

pH Probe Manufacturer: YSI Model: 3530

Serial Number: 99K817487

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: 95A94402

Buffer Solution Manufacturer: Calitech

Expiration Dates of Buffer Solutions: pH 4.00: 7/01 pH 7.00: 4/02 pH 10.00: 11/00

INSTRUMENTATION CHECK-OUT

Time: 0845 Battery Condition: GOOD

Instrument Readings with Shorting Plug in, mV: 000 Temperature: 19.5 pH: 7.0

Reference Chamber Solution Changed?: N/A

pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0845 Slope: N/A Temperature: 18.5

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

Time: 1245 Slope: N/A Temperature: 18.4

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

Time: Slope: N/A Temperature:

Response to Low Buffer: Response to High Buffer:

Comments:

The calibration of the pH probe (YSI 3530) is to an accuracy of ± 0.05 pH units.
The YSI 3500 (pH/temperature/EC meter) will not calibrate properly without a pH probe that has a slope from 80-100%.

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: Jet Propulsion Laboratory

Calibration by: T. Turpyn-Keasler Date: 9/25/00

Instrument Manufacturer: YSI Model: 3500

Serial Number: 9340994

pH Probe Manufacturer: YSI Model: 3530

Serial Number: 99K817487

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: 95A94402

Buffer Solution Manufacturer: Calitech

Expiration Dates of Buffer Solutions: pH 4.00: 7/01 pH 7.00: 4/02 pH 10.00: 11/00

INSTRUMENTATION CHECK-OUT

Time: 0800 Battery Condition: GOOD

Instrument Readings with Shorting Plug in, mV: 000 Temperature: 13.7 pH: 7.0

Reference Chamber Solution Changed?: N/A

pH Probe Condition: Good

FIELD CALIBRATION

Time: 0800 Slope: N/A Temperature: 13.7

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

Time: 1300 Slope: N/A Temperature: 32.5

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

Time: Slope: N/A Temperature:

Response to Low Buffer: Response to High Buffer:

Comments:

The calibration of the pH probe (YSI 3530) is to an accuracy of ± 0.05 pH units.
The YSI 3500 (pH/temperature/EC meter) will not calibrate properly without a pH probe that has a slope from 80-100%.

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: Jet Propulsion Laboratory

Calibration by: T. Turpyn-Kesler Date: 9/26/00

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93L0944

pH Probe Manufacturer: YSI Model: 3530

Serial Number: 99K817487

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: 95A94402

Buffer Solution Manufacturer: Calitech

Expiration Dates of Buffer Solutions: pH 4.00: 7/01 pH 7.00: 4/02 pH 10.00: 11/00

INSTRUMENTATION CHECK-OUT

Time: 0750 Battery Condition: GOOD

Instrument Readings with Shorting Plug in, mV: 000 Temperature: 17.3 pH: 7.0

Reference Chamber Solution Changed?: N/A

pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0750 Slope: N/A Temperature: 16.8

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

Time: 1250 Slope: N/A Temperature: 31.8

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

Time: Slope: N/A Temperature:

Response to Low Buffer: Response to High Buffer:

Comments:

The calibration of the pH probe (YSI 3530) is to an accuracy of ± 0.05 pH units.
The YSI 3500 (pH/temperature/EC meter) will not calibrate properly without a pH probe that has a slope from 80-100%.

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: Jet Propulsion Laboratory

Calibration by: T. Turpin-Keasler Date: 9/27/00

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93L0944

pH Probe Manufacturer: YSI Model: 3530

Serial Number: 99C817487

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: 95A94402

Buffer Solution Manufacturer: Calitech

Expiration Dates of Buffer Solutions: pH 4.00: 7/01 pH 7.00: 4/02 pH 10.00: 11/00

INSTRUMENTATION CHECK-OUT

Time: 0805 Battery Condition: GOOD

Instrument Readings with Shorting Plug in, mV: 000 Temperature: 18.5 pH: 7.0

Reference Chamber Solution Changed?: N/A

pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0805 Slope: N/A Temperature: 16.9

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

Time: 7315 Slope: N/A Temperature: 23.7

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

Time: Slope: N/A Temperature:

Response to Low Buffer: Response to High Buffer:

Comments:

The calibration of the pH probe (YSI 3530) is to an accuracy of ± 0.05 pH units.
The YSI 3500 (pH/temperature/EC meter) will not calibrate properly without a pH probe that has a slope from 80-100%.

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: Jet Propulsion Laboratory

Calibration by: T. Turpyn-Keasler Date: 9/28/00

Instrument Manufacturer: YSI Model: 3500

Serial Number: 9360994

pH Probe Manufacturer: YSI Model: 3530

Serial Number: 99K817487

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: 95A94402

Buffer Solution Manufacturer: Calitech

Expiration Dates of Buffer Solutions: pH 4.00: 7/01 pH 7.00: 4/02 pH 10.00: 11/00

INSTRUMENTATION CHECK-OUT

Time: 0910 Battery Condition: GOOD

Instrument Readings with Shorting Plug in, mV: 000 Temperature: 20.1 pH: 7.0

Reference Chamber Solution Changed?: N/A

pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0910 Slope: N/A Temperature: 20.1

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

Time: 1320 Slope: N/A Temperature: 23.2

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

Time: Slope: N/A Temperature:

Response to Low Buffer: Response to High Buffer:

Comments:

The calibration of the pH probe (YSI 3530) is to an accuracy of ± 0.05 pH units.
The YSI 3500 (pH/temperature/EC meter) will not calibrate properly without a pH probe that has a slope from 80-100%.

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: Jet Propulsion Laboratory

Calibration by: T. Turpin-Keasler Date: 9/29/00

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93L0944

pH Probe Manufacturer: YSI Model: 3530

Serial Number: 99K817487

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: 95A94402

Buffer Solution Manufacturer: Calitech

Expiration Dates of Buffer Solutions: pH 4.00: 7/01 pH 7.00: 4/02 pH 10.00: 11/00

INSTRUMENTATION CHECK-OUT

Time: 0800 Battery Condition: GOOD

Instrument Readings with Shorting Plug in, mV: 000 Temperature: 17.3 pH: 7.0

Reference Chamber Solution Changed?: N/A

pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0810 Slope: N/A Temperature: 17.8

Response to Low Buffer: ~~6.98~~ 7.00 Response to High Buffer: 10.00

Time: 1230 Slope: N/A Temperature: 22.8

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

Time: Slope: N/A Temperature:

Response to Low Buffer: Response to High Buffer:

Comments:

The calibration of the pH probe (YSI 3530) is to an accuracy of ± 0.05 pH units.
The YSI 3500 (pH/temperature/EC meter) will not calibrate properly without a pH probe that has a slope from 80-100%.

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: Jet Propulsion Laboratory

Calibration by: Tania Turpyn-Keasler Date: 10/6/00

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93L0944

pH Probe Manufacturer: YSI Model: 3530

Serial Number: 99K817487

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: 95A94402

Buffer Solution Manufacturer: Calitech

Expiration Dates of Buffer Solutions: pH 4.00: 7/01 pH 7.00: 4/02 pH 10.00: 11/00

INSTRUMENTATION CHECK-OUT

Time: 0735 Battery Condition: GOOD

Instrument Readings with Shorting Plug in, mV: 002 Temperature: 17.5 pH: 7.0

Reference Chamber Solution Changed?: N/A

pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0735 Slope: N/A Temperature: 17.5

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

Time: 1100 Slope: N/A Temperature: 21.9

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

Time: Slope: N/A Temperature:

Response to Low Buffer: Response to High Buffer:

Comments:

The calibration of the pH probe (YSI 3530) is to an accuracy of ± 0.05 pH units.
The YSI 3500 (pH/temperature/EC meter) will not calibrate properly without a pH probe that has a slope from 80-100%.

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: Jet Propulsion Laboratory

Calibration by: Tania Turpyn-Keusler Date: 10/9/00

Instrument Manufacturer: YSI Model: 3500

Serial Number: 9320944

pH Probe Manufacturer: YSI Model: 3530

Serial Number: 99K817487

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: 95A94402

Buffer Solution Manufacturer: Calitech

Expiration Dates of Buffer Solutions: pH 4.00: 7/01 pH 7.00: 4/02 pH 10.00: 11/00

INSTRUMENTATION CHECK-OUT

Time: 0800 Battery Condition: GOOD

Instrument Readings with Shorting Plug in, mV: 000 Temperature: 13.7 pH: 7.0

Reference Chamber Solution Changed?: N/A

pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0800 Slope: N/A Temperature: 13.6

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

Time: 1320 Slope: N/A Temperature: 25.1

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

Time: Slope: N/A Temperature:

Response to Low Buffer: Response to High Buffer:

Comments:

The calibration of the pH probe (YSI 3530) is to an accuracy of ± 0.05 pH units.
The YSI 3500 (pH/temperature/EC meter) will not calibrate properly without a pH probe that has a slope from 80-100%.

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: Jet Propulsion Laboratory

Calibration by: T. Turpin-Keasler Date: 10/10/00

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93L0944

pH Probe Manufacturer: YSI Model: 3530

Serial Number: 99K817487

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: 95A94402

Buffer Solution Manufacturer: Calitech

Expiration Dates of Buffer Solutions: pH 4.00: 7/01 pH 7.00: 4/02 pH 10.00: 11/00

INSTRUMENTATION CHECK-OUT

Time: 730 Battery Condition: Good

Instrument Readings with Shorting Plug in, mV: 000 Temperature: ~~000~~ 15.1 pH: 7.0

Reference Chamber Solution Changed?: N/A

pH Probe Condition: Good

FIELD CALIBRATION

Time: 0730 Slope: N/A Temperature: 15.1

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

Time: 1405 Slope: N/A Temperature: 24.8

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

Time: Slope: N/A Temperature:

Response to Low Buffer: Response to High Buffer:

Comments:

The calibration of the pH probe (YSI 3530) is to an accuracy of ± 0.05 pH units.
The YSI 3500 (pH/temperature/EC meter) will not calibrate properly without a pH probe that has a slope from 80-100%.

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: Jet Propulsion Laboratory

Calibration by: T. Turpin-Keasler, Date: 10/11/00

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93L0944

pH Probe Manufacturer: YSI Model: 3530

Serial Number: 99K817487

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: 95A94402

Buffer Solution Manufacturer: Calitech

Expiration Dates of Buffer Solutions: pH 4.00: 7/01 pH 7.00: 4/02 pH 10.00: 11/00

INSTRUMENTATION CHECK-OUT

Time: 0810 Battery Condition: GOOD

Instrument Readings with Shorting Plug in, mV: 000 Temperature: 11.8 pH:

Reference Chamber Solution Changed?: N/A

pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0810 Slope: N/A Temperature: 11.8

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

Time: 1355 Slope: N/A Temperature: 25.3

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

Time: Slope: N/A Temperature:

Response to Low Buffer: Response to High Buffer:

Comments:

The calibration of the pH probe (YSI 3530) is to an accuracy of ± 0.05 pH units.
The YSI 3500 (pH/temperature/EC meter) will not calibrate properly without a pH probe that has a slope from 80-100%.

ELECTRICAL CONDUCTIVITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: Jet Propulsion Laboratory Laboratory
Calibration by: T. Tvrdyn-Kasler Date: 9/12/00
Instrument Manufacturer: YSI Model: 3500
Serial Number: 93L09994
Probe Manufacturer: YSI Model: 3520
Serial Number: 99M0218
Calibration Solution Manufacturer YSI
Solution Conductivity: 1000 µS/cm (@ 25 °C) Solution Expiration Date: 09/01

FIELD CALIBRATION

Time: 0755 Temperature of Solution: 23.0
Instrument Response to Calibration Solution: 1016 µs/cm
Temperature Compensated Solution Conductivity (µ S/cm)*: 961
Probe Constant: .95 Instrument Response within Limits of Error* Yes: ✓ No: ____

Time: 1500 Temperature of Solution: 36.9
Instrument Response to Calibration Solution: 1307
Temperature Compensated Solution Conductivity (µ S/cm)*: 1237
Probe Constant: 0.95 Instrument Response within Limits of Error* Yes: ✓ No: ____

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

Probe Constant = Temperature Compensated Solution Conductivity/Instrument Response

**Instrument response is within 6% error if probe constant is: $0.94 \geq x \leq 1.06$

ELECTRICAL CONDUCTIVITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: Jet Propulsion Laboratory Laboratory

Calibration by: T. Turpyn-Keesler Date: 9/13/00

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93L09994

Probe Manufacturer: YSI Model: 3520

Serial Number: 99M0218

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1000 ~~mS~~/cm (@ 25 °C) Solution Expiration Date: 09/01

FIELD CALIBRATION

Time: 0830 Temperature of Solution: 22.5

Instrument Response to Calibration Solution: 1015

Temperature Compensated Solution Conductivity (μ S/cm)*: 952

Probe Constant: .94 Instrument Response within Limits of Error** Yes: ✓ No: ____

Time: 1340 Temperature of Solution: 36.9

Instrument Response to Calibration Solution: 1307

Temperature Compensated Solution Conductivity (μ S/cm)*: 1238

Probe Constant: .95 Instrument Response within Limits of Error** Yes: ✓ No: ____

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

Conductivity (μS/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

Probe Constant = Temperature Compensated Solution Conductivity/Instrument Response

**Instrument response is within 6% error if probe constant is: $0.94 \geq x \leq 1.06$

ELECTRICAL CONDUCTIVITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: Jet Propulsion Laboratory Laboratory

Calibration by: T. Turpin-Keesler Date: 9/14/00

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93E09994

Probe Manufacturer: YSI Model: 3520

Serial Number: 99m0218

Calibration Solution Manufacturer YSI

Solution Conductivity: 1000 mS/cm (@ 25 °C) Solution Expiration Date: 9/01

FIELD CALIBRATION

Time: 0830 Temperature of Solution: 20.6

Instrument Response to Calibration Solution: 973 ms/cm

Temperature Compensated Solution Conductivity (μ S/cm)*: 915 ms/cm

Probe Constant: .94 Instrument Response within Limits of Error* Yes: ✓ No: ____

Time: 1440 Temperature of Solution: 32.9

Instrument Response to Calibration Solution: 1208 ms/cm

Temperature Compensated Solution Conductivity (μ S/cm)*: 1156

Probe Constant: 0.96 Instrument Response within Limits of Error* Yes: ✓ No: ____

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

Conductivity (μS/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

Probe Constant = Temperature Compensated Solution Conductivity/Instrument Response

**Instrument response is within 6% error if probe constant is: $0.94 \geq x \leq 1.06$

ELECTRICAL CONDUCTIVITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: Jet Propulsion Laboratory Laboratory
Calibration by: T. Turpyn-Keasler Date: 9/18/00
Instrument Manufacturer: YSI Model: 3500
Serial Number: 93L09994
Probe Manufacturer: YSI Model: 3520
Serial Number: 99M0218
Calibration Solution Manufacturer YSI
Solution Conductivity: 1000 mS/cm (@ 25 °C) Solution Expiration Date: 9/01

FIELD CALIBRATION

Time: 0750 Temperature of Solution: 19.2
Instrument Response to Calibration Solution: 933 µs/cm
Temperature Compensated Solution Conductivity (µ S/cm)*: 888
Probe Constant: 0.95 Instrument Response within Limits of Error* Yes: ✓ No: ____

Time: 1520 Temperature of Solution: 33.6
Instrument Response to Calibration Solution: 1232 µs/cm
Temperature Compensated Solution Conductivity (µ S/cm)*: 1170
Probe Constant: 0.95 Instrument Response within Limits of Error* Yes: ✓ No: ____

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

Probe Constant = Temperature Compensated Solution Conductivity/Instrument Response

**Instrument response is within 6% error if probe constant is: $0.94 \geq x \leq 1.06$

ELECTRICAL CONDUCTIVITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: Jet Propulsion Laboratory Laboratory

Calibration by: T. Tuopyr-Kessler Date: 9/19/00

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93L09994

Probe Manufacturer: YSI Model: 3520

Serial Number: 99M0218

Calibration Solution Manufacturer YSI

Solution Conductivity: 1000 mS/cm (@ 25 °C) Solution Expiration Date: 09/01

FIELD CALIBRATION

Time: 0845 Temperature of Solution: 20.8

Instrument Response to Calibration Solution: 968 mS/cm

Temperature Compensated Solution Conductivity (μ S/cm)*: 919

Probe Constant: .95 Instrument Response within Limits of Error* Yes: ✓ No: ____

Time: 1330 Temperature of Solution: 35.9

Instrument Response to Calibration Solution: 1298 mS/cm

Temperature Compensated Solution Conductivity (μ S/cm)*: 1217

Probe Constant: .94 Instrument Response within Limits of Error* Yes: ✓ No: ____

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

Conductivity (μS/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

Probe Constant = Temperature Compensated Solution Conductivity/Instrument Response

**Instrument response is within 6% error if probe constant is: $0.94 \geq x \leq 1.06$

ELECTRICAL CONDUCTIVITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: Jet Propulsion Laboratory Laboratory

Calibration by: T. Turpin-Leader Date: 9/20/00

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93L0994

Probe Manufacturer: YSI Model: 3520

Serial Number: 99m0218

Calibration Solution Manufacturer YSI

Solution Conductivity: 1000 mS/cm (@ 25 °C) Solution Expiration Date: 09/01

FIELD CALIBRATION

Time: 0745 Temperature of Solution: 19.1

Instrument Response to Calibration Solution: 938 ms/cm

Temperature Compensated Solution Conductivity (μ S/cm)*: ~~872~~ 886

Probe Constant: 0.95 Instrument Response within Limits of Error* Yes: ✓ No: ____

Time: 1400 Temperature of Solution: 30.2

Instrument Response to Calibration Solution: 1167 ms/cm

Temperature Compensated Solution Conductivity (μ S/cm)*: 1102

Probe Constant: .94 Instrument Response within Limits of Error* Yes: ✓ No: ____

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

Conductivity (μS/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

Probe Constant = Temperature Compensated Solution Conductivity/Instrument Response

**Instrument response is within 6% error if probe constant is: $0.94 \geq x \leq 1.06$

ELECTRICAL CONDUCTIVITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: Jet Propulsion Laboratory Laboratory

Calibration by: T. Turpyn-Keasler Date: 9/21/00

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93L09994

Probe Manufacturer: YSI Model: 3520

Serial Number: 99M0218

Calibration Solution Manufacturer YSI

Solution Conductivity: 1000 ~~m~~S/cm (@ 25 °C) Solution Expiration Date: 0901

FIELD CALIBRATION

Time: 0845 Temperature of Solution: 18.5

Instrument Response to Calibration Solution: 917 ms/cm

Temperature Compensated Solution Conductivity (μ S/cm)*: 875

Probe Constant: .95 Instrument Response within Limits of Error* Yes: ✓ No: ____

Time: 1245 Temperature of Solution: 18.4

Instrument Response to Calibration Solution: 921 ms/cm

Temperature Compensated Solution Conductivity (μ S/cm)*: 873

Probe Constant: .95 Instrument Response within Limits of Error* Yes: ✓ No: ____

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

Conductivity (μS/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

Probe Constant = Temperature Compensated Solution Conductivity/Instrument Response

**Instrument response is within 6% error if probe constant is: $0.94 \geq x \leq 1.06$

ELECTRICAL CONDUCTIVITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: Jet Propulsion Laboratory Laboratory

Calibration by: T. Tuyen-Keesler Date: 9/25/00

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93L09994

Probe Manufacturer: YSI Model: 3520

Serial Number: 99M0218

Calibration Solution Manufacturer YSI

Solution Conductivity: 1000 µS/cm (@ 25 °C) Solution Expiration Date: 09/01

FIELD CALIBRATION

Time: 0800 Temperature of Solution: 13.7

Instrument Response to Calibration Solution: 822 µs/cm

Temperature Compensated Solution Conductivity (µ S/cm)*: 785

Probe Constant: .95 Instrument Response within Limits of Error* Yes: ✓ No: ____

Time: 1300 Temperature of Solution: 32.9

Instrument Response to Calibration Solution: 1219 µs/cm

Temperature Compensated Solution Conductivity (µ S/cm)*: 1156

Probe Constant: .95 Instrument Response within Limits of Error* Yes: ✓ No: ____

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

Conductivity (µS/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

Probe Constant = Temperature Compensated Solution Conductivity/Instrument Response

**Instrument response is within 6% error if probe constant is: $0.94 \geq x \leq 1.06$

ELECTRICAL CONDUCTIVITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: Jet Propulsion Laboratory Laboratory

Calibration by: T. Turpyn-Kenslar Date: 9/26/00

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93L09994

Probe Manufacturer: YSI Model: 3520

Serial Number: 99m0218

Calibration Solution Manufacturer YSI

Solution Conductivity: 1000 mS/cm (@ 25 °C) Solution Expiration Date: 9/01

FIELD CALIBRATION

Time: 0750 Temperature of Solution: 15.6

Instrument Response to Calibration Solution: 850 ms/cm

Temperature Compensated Solution Conductivity (μ S/cm)*: 821

Probe Constant: .97 Instrument Response within Limits of Error* Yes: ✓ No: ____

Time: 1250 Temperature of Solution: 31.9

Instrument Response to Calibration Solution: 1189 ms/cm

Temperature Compensated Solution Conductivity (μ S/cm)*: 1136

Probe Constant: .96 Instrument Response within Limits of Error* Yes: ✓ No: ____

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

Conductivity (μS/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

Probe Constant = Temperature Compensated Solution Conductivity/Instrument Response

**Instrument response is within 6% error if probe constant is: $0.94 \geq x \leq 1.06$

ELECTRICAL CONDUCTIVITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: Jet Propulsion Laboratory Laboratory

Calibration by: T. Turpyn-Keasler Date: 9/27/00

Instrument Manufacturer: YSI Model: 3500

Serial Number: 9310994

Probe Manufacturer: YSI Model: 3520

Serial Number: 99M0218

Calibration Solution Manufacturer YSI

Solution Conductivity: 1000 µS/cm (@ 25 °C) Solution Expiration Date: 09/01

FIELD CALIBRATION

Time: 0805 Temperature of Solution: 17.0

Instrument Response to Calibration Solution: 877 µs/cm

Temperature Compensated Solution Conductivity (µ S/cm)*: 847

Probe Constant: .97 Instrument Response within Limits of Error* Yes: ✓ No: ____

Time: 1315 Temperature of Solution: 23.8

Instrument Response to Calibration Solution: 1013 µs/cm

Temperature Compensated Solution Conductivity (µ S/cm)*: 977

Probe Constant: .96 Instrument Response within Limits of Error* Yes: ✓ No: ____

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

Conductivity (µS/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

Probe Constant = Temperature Compensated Solution Conductivity/Instrument Response

**Instrument response is within 6% error if probe constant is: $0.94 \geq x \leq 1.06$

ELECTRICAL CONDUCTIVITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: Jet Propulsion Laboratory Laboratory

Calibration by: T. Turpyn-Kaesler Date: 9/28/00

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93L0994

Probe Manufacturer: YSI Model: 3520

Serial Number: 99M0248

Calibration Solution Manufacturer YSI

Solution Conductivity: 1000 mS/cm (@ 25 °C) Solution Expiration Date: 09/01

FIELD CALIBRATION

Time: 0910 Temperature of Solution: 20.2

Instrument Response to Calibration Solution: 957 ms/cm

Temperature Compensated Solution Conductivity (μ S/cm)*: 908

Probe Constant: .95 Instrument Response within Limits of Error* Yes: ✓ No: ____

Time: 1320 Temperature of Solution: 24.1

Instrument Response to Calibration Solution: 1027 ms/cm

Temperature Compensated Solution Conductivity (μ S/cm)*: 982

Probe Constant: .94 Instrument Response within Limits of Error* Yes: ✓ No: ____

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

Conductivity (μS/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

Probe Constant = Temperature Compensated Solution Conductivity/Instrument Response

**Instrument response is within 6% error if probe constant is: $0.94 \geq x \leq 1.06$

ELECTRICAL CONDUCTIVITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: Jet Propulsion Laboratory Laboratory

Calibration by: T. Turpyn-Keasler Date: 9/29/00

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93L0994

Probe Manufacturer: YSI Model: 3520

Serial Number: 99M0218

Calibration Solution Manufacturer YSI

Solution Conductivity: 1000 µS/cm (@ 25 °C) Solution Expiration Date: 09/01

FIELD CALIBRATION

Time: 0810 Temperature of Solution: 17.3

Instrument Response to Calibration Solution: 899 µs/cm

Temperature Compensated Solution Conductivity (µ S/cm)*: 852

Probe Constant: .95 Instrument Response within Limits of Error* Yes: ✓ No: ____

Time: 1230 Temperature of Solution: 23.4

Instrument Response to Calibration Solution: 1008 µs/cm

Temperature Compensated Solution Conductivity (µ S/cm)*: 969

Probe Constant: .96 Instrument Response within Limits of Error* Yes: ✓ No: ____

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

Conductivity (µS/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

Probe Constant = Temperature Compensated Solution Conductivity/Instrument Response

**Instrument response is within 6% error if probe constant is: $0.94 \geq x \leq 1.06$

ELECTRICAL CONDUCTIVITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: Jet Propulsion Laboratory Laboratory

Calibration by: T. Turpyn-Kengler Date: 10/6/00

Instrument Manufacturer: YSI Model: 3500

Serial Number: 9310994

Probe Manufacturer: YSI Model: 3520

Serial Number: 9M0218

Calibration Solution Manufacturer YSI

Solution Conductivity: 1000 mS/cm (@ 25 °C) Solution Expiration Date: 09/01

FIELD CALIBRATION

Time: 0735 Temperature of Solution: 17.5

Instrument Response to Calibration Solution: 888 mS/cm

Temperature Compensated Solution Conductivity (μ S/cm)*: 856

Probe Constant: .96 Instrument Response within Limits of Error* Yes: ✓ No: ____

Time: 1100 Temperature of Solution: 21.4

Instrument Response to Calibration Solution: 982 mS/cm

Temperature Compensated Solution Conductivity (μ S/cm)*: 930

Probe Constant: .95 Instrument Response within Limits of Error* Yes: ✓ No: ____

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

Conductivity (μS/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

Probe Constant = Temperature Compensated Solution Conductivity/Instrument Response

**Instrument response is within 6% error if probe constant is: $0.94 \geq x \leq 1.06$

ELECTRICAL CONDUCTIVITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: Jet Propulsion Laboratory Laboratory

Calibration by: T. Turpin-Keasler Date: 10/9/00

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93L0994

Probe Manufacturer: YSI Model: 3520

Serial Number: 99M0218

Calibration Solution Manufacturer YSI

Solution Conductivity: 1000 mS/cm (@ 25 °C) Solution Expiration Date: 09/01

FIELD CALIBRATION

Time: 0800 Temperature of Solution: 13.4

Instrument Response to Calibration Solution: 822 mS/cm

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

Probe Constant: .95 Instrument Response within Limits of Error* Yes: ✓ No: ____

Time: 1320 Temperature of Solution: 23.9

Instrument Response to Calibration Solution: 1018 mS/cm

Temperature Compensated Solution Conductivity (μ S/cm)*: 979

Probe Constant: .96 Instrument Response within Limits of Error* Yes: ✓ No: ____

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

Conductivity (μS/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

Probe Constant = Temperature Compensated Solution Conductivity/Instrument Response

**Instrument response is within 6% error if probe constant is: $0.94 \geq x \leq 1.06$

ELECTRICAL CONDUCTIVITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: Jet Propulsion Laboratory Laboratory

Calibration by: T. Turpin-Keasler Date: 10/10/00

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93L0994

Probe Manufacturer: YSI Model: 3520

Serial Number: 99M0218

Calibration Solution Manufacturer YSI

Solution Conductivity: 1000 mS/cm (@ 25 °C) Solution Expiration Date: 09/01

FIELD CALIBRATION

Time: 0730 Temperature of Solution: 18.1

Instrument Response to Calibration Solution: 862 µs/cm

Temperature Compensated Solution Conductivity (µ S/cm)*: 812

Probe Constant: .94 Instrument Response within Limits of Error* Yes: ✓ No: ____

Time: 1405 Temperature of Solution: 25.3

Instrument Response to Calibration Solution: 1052 µs/cm

Temperature Compensated Solution Conductivity (µ S/cm)*: 1005

Probe Constant: .96 Instrument Response within Limits of Error* Yes: ✓ No: ____

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

Conductivity (µS/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

Probe Constant = Temperature Compensated Solution Conductivity/Instrument Response

**Instrument response is within 6% error if probe constant is: $0.94 \geq x \leq 1.06$

ELECTRICAL CONDUCTIVITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: Jet Propulsion Laboratory Laboratory

Calibration by: T. Turpyn-Keasler Date: 10/11/00

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93L0994

Probe Manufacturer: YSI Model: 3520

Serial Number: 99M0218

Calibration Solution Manufacturer YSI

Solution Conductivity: 1000 ~~m~~S/cm (@ 25 °C) Solution Expiration Date: 09/01

FIELD CALIBRATION

Time: 0810 Temperature of Solution: 11.7

Instrument Response to Calibration Solution: 792 ms/cm

Temperature Compensated Solution Conductivity (μ S/cm)*: 749

Probe Constant: .95 Instrument Response within Limits of Error* Yes: ✓ No: ____

Time: 1355 Temperature of Solution: 25.3

Instrument Response to Calibration Solution: 1050

Temperature Compensated Solution Conductivity (μ S/cm)*: 1005

Probe Constant: .96 Instrument Response within Limits of Error* Yes: ✓ No: ____

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

Conductivity (μS/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

Probe Constant = Temperature Compensated Solution Conductivity/Instrument Response

**Instrument response is within 6% error if probe constant is: $0.94 \geq x \leq 1.06$

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-3-2	69816	MW-003-070	2	9/13/2000
MW-3-3	69816	MW-003-069	2	9/13/2000
MW-3-4	69816	MW-003-068	2	9/13/2000
MW-3-5	69816	MW-003-067	2	9/13/2000
MW-4-1	70722	MW-003-066	14	10/9/2000
MW-4-2	70722	MW-003-065	14	10/9/2000
MW-4-2 Dup	70722	MW-003-064	14	10/9/2000
MW-4-3	70722	MW-003-063	14	10/9/2000
MW-4-4	70722	MW-003-062	14	10/9/2000
MW-4-5	70722	MW-003-061	14	10/9/2000
MW-5	70671	MW-003-060	13	10/6/2000
MW-6	70374	MW-003-059	12	9/29/2000
MW-8	70747	MW-003-057	15	10/10/2000
MW-10	70374	MW-003-056	12	9/29/2000
MW-10 Dup	70374	MW-003-055	12	9/29/2000
MW-11-1	70225	MW-003-054	8	9/25/2000
MW-11-2	70225	MW-003-053	8	9/25/2000
MW-11-3	70225	MW-003-052	8	9/25/2000
MW-11-4	70225	MW-003-051	8	9/25/2000
MW-12-1	70824	MW-003-050	16	10/11/2000
MW-12-2	70824	MW-003-049	16	10/11/2000
MW-12-2 Dup	70824	MW-003-048	16	10/11/2000
MW-12-3	70824	MW-003-047	16	10/11/2000
MW-12-4	70824	MW-003-046	16	10/11/2000
MW-12-5	70824	MW-003-045	16	10/11/2000
MW-13	70374	MW-003-044	12	9/29/2000
MW-13 Dup	70374	MW-003-043	12	9/29/2000
MW-14-1	70291	MW-003-042	10	9/27/2000
MW-14-2	70291	MW-003-041	10	9/27/2000
MW-14-3	70291	MW-003-040	10	9/27/2000
MW-14-4	70291	MW-003-039	10	9/27/2000
MW-14-5	70291	MW-003-038	10	9/27/2000
MW-16	70671	MW-003-037	13	10/6/2000
MW-17-2	69880	MW-003-036	3	9/14/2000
MW-17-3	69880	MW-003-035	3	9/14/2000
MW-17-4	69880	MW-003-034	3	9/14/2000
MW-17-5	69880	MW-003-033	3	9/14/2000
MW-18-2	69955	MW-003-032	4	9/18/2000
MW-18-3	69955	MW-003-031	4	9/18/2000
MW-18-4	69955	MW-003-030	4	9/18/2000
MW-18-5	69955	MW-003-029	4	9/18/2000
MW-19-1	70020	MW-003-028	5	9/19/2000
MW-19-2	70020	MW-003-027	5	9/19/2000
MW-19-3	70020	MW-003-026	5	9/19/2000
MW-19-4	70020	MW-003-025	5	9/19/2000
MW-19-5	70020	MW-003-024	5	9/19/2000

ANALYTICAL RESULTS INDEX

GROUNDWATER SAMPLES

Well Number	Report Number	Sample Number	Tab Number	Date Sampled
MW-20-1	70086	MW-003-023	6	9/20/2000
MW-20-2	70086	MW-003-022	6	9/20/2000
MW-20-3	70086	MW-003-021	6	9/20/2000
MW-20-4	70086	MW-003-020	6	9/20/2000
MW-20-5	70086	MW-003-019	6	9/20/2000
MW-21-1	70128	MW-003-018	7	9/21/2000
MW-21-2	70128	MW-003-017	7	9/21/2000
MW-21-3	70128	MW-003-016	7	9/21/2000
MW-21-4	70128	MW-003-015	7	9/21/2000
MW-21-5	70128	MW-003-014	7	9/21/2000
MW-22-1	69789	MW-003-013	1	9/12/2000
MW-22-2	69789	MW-003-012	1	9/12/2000
MW-22-3	69789	MW-003-011	1	9/12/2000
MW-22-4	69789	MW-003-010	1	9/12/2000
MW-23-1	70279	MW-003-009	9	9/26/2000
MW-23-2	70279	MW-003-008	9	9/26/2000
MW-23-3	70279	MW-003-007	9	9/26/2000
MW-23-4	70279	MW-003-006	9	9/26/2000
MW-23-5	70279	MW-003-005	9	9/26/2000
MW-24-1	70747	MW-003-004	15	10/10/2000
MW-24-2	70747	MW-003-003	15	10/10/2000
MW-24-3	70351	MW-003-002	11	9/28/2000
MW-24-4	70351	MW-003-001	11	9/28/2000

ANALYTICAL RESULTS INDEX

QA/QC SAMPLE BLANKS

Sample Type	Report Number	Sample Number	Tab Number	Date Sampled
TB	69789	MW-003-071	1	9/12/2000
EB	69789	MW-003-072	1	9/12/2000
TB	69816	MW-003-073	2	9/13/2000
EB	69816	MW-003-074	2	9/13/2000
TB	69880	MW-003-075	3	9/14/2000
EB	69880	MW-003-076	3	9/14/2000
TB	69955	MW-003-077	4	9/18/2000
EB	69955	MW-003-078	4	9/18/2000
TB	70020	MW-003-079	5	9/19/2000
EB	70020	MW-003-080	5	9/19/2000
TB	70086	MW-003-081	6	9/20/2000
EB	70086	MW-003-082	6	9/20/2000
TB	70128	MW-003-083	7	9/21/2000
EB	70128	MW-003-084	7	9/21/2000
TB	70225	MW-003-085	8	9/25/2000
EB	70225	MW-003-086	8	9/25/2000
TB	70279	MW-003-087	9	9/26/2000
EB	70279	MW-003-088	9	9/26/2000
TB	70291	MW-003-089	10	9/27/2000
EB	70291	MW-003-090	10	9/27/2000
TB	70351	MW-003-091	11	9/28/2000
EB	70351	MW-003-092	11	9/28/2000
TB	70374	MW-003-093	12	9/29/2000
TB	70671	MW-003-095	13	10/6/2000
TB	70722	MW-003-096	14	10/9/2000
EB	70722	MW-003-097	14	10/9/2000
TB	70747	MW-003-098	15	10/10/2000
TB	70824	MW-003-099	16	10/11/2000
EB	70824	MW-003-100	16	10/11/2000
FB	70747	MW-003-200	15	10/10/2000

MONTGOMERY WATSON LABORATORIES

A division of Montgomery Watson Americas, Inc.

Quality Environmental Analysis

October 11, 2000

Attention: Mark Cutler
Foster Wheeler Environmental Corp
1940 E Deere St, Ste 200
Santa Ana, CA 92705

Report # 69789 (MW-003-071, MW-003-010, MW-003-072, MW-003-011, MW-003-012, MW-003-013)

Sampled: 09/12/00

Dear Mark,

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

Non-conformance (LCS, MS/MSD, Surrogates, and Holding Times)
None
Samples requiring dilution (with increased MRL's):
None
Method blanks with compounds detected:
None
Comments:
1,1-Dichloroethane was detected in MW-003-013
Tetrachloroethylene was detected in MW-003-013
Perchlorate was detected in MW-003-013
TIC'S:
An unknown at RT 5.13 was detected in MW-003-011
An unknown at RT 5.12 was detected in MW-003-013
Method Variation:
TIC's are reported only if the final result is >0.5 ug/L.
Additional Comments:
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

NUM 1734

69789

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PROJECT: JPL

OFS NO.: [illegible]

PROJECT ADDRESS: [illegible] PASADENA CA

SAMPLER (Name): [illegible]

SAMPLER (Signature): [illegible]

LABORATORY: [illegible]

REPORTS TO BE SENT TO: [illegible]

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

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

ANALYSES REQUIRED

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL: WATER	SOIL	OTHER (Describe)	VOCs (8260)	Cr 6+	Total Cr	Cl10	MS Pos VOCs	MSD Pos VOCs	MS/MSD Cr	QC Pos Cr 6+		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	X			X									
MW-003-010	1210		1	125ml	X						X						
MW-003-077	1200		6	3x40ml 3x125ml	X			X	X	X	X						
MW-003-011	1300		4	3x40ml 1x125ml	X			X			X						
MW-003-012	1350		6	3x40ml 3x125ml	X			X	X	X	X				X		
MW-003-013	1430		6	3x40ml 2x125ml, 1x250ml	X			X	X	X	X	X	X	X (MS)			
MW-003-013	1430		3	3x40ml	X							X					
MW-003-013	1430		3	3x40ml	X								X				
														X			

LABORATORY INSTRUCTIONS/COMMENTS

Level III [illegible]/QC

RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)	RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)
[illegible]	[illegible]	[illegible]			
COMPANY: [illegible]	TIME: [illegible]	COMPANY: [illegible] 9/12	COMPANY	TIME	COMPANY

MONTGOMERY LABORATORIES COOLER RECEIPT FORM

PROJECT: ENSERCH Date Received: 9/12/00

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: 9-12-00

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: 2 OUTSIDE LID
   If Yes, enter the following: seal date: 9-12-00, seal name: TTK

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: NR (date) 9-12-00

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

9. Describe packing:

10. If required, was enough ice used? Yes No TEMP 6°C

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 used for the analytes? Yes No

16. Were correct preservatives used when required? Yes No

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

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

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

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 Corp
1940 E Deere St, Ste 200

Santa Ana, CA 92705

Santa Ana , CA 92705

Attention: Mark Cutler
Fax: 949 756-7560

DATE OF ISSUE
OCT 10 2000
MONTGOMERY WATSON LABS

DEB* Debbie Frank
Project Manager

Report#: 69789
JPL

Laboratory certifies that the test results meet all **QA/QC** requirements unless noted in the Comments section or the Case Narrative. Following the cover page are QC Report,QC Summary,Data Report, totaling 16 page[s].

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Laboratory
Data Report
#69789

Foster Wheeler Environmental Corp
Mark Cutler
1940 E Deere St, Ste 200
Santa Ana, CA 92705
Santa Ana , CA 92705

Samples Received
09/12/00

MW-003-071 (2009130001) Sampled on 09/12/00 08:30

Regulated VOCs plus Lists 1&3

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
09/18/00	12:00	124227	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
09/18/00	12:00	124227	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
09/18/00	12:00	124227	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
09/18/00	12:00	124227	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
09/18/00	12:00	124227	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
09/18/00	12:00	124227	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
09/18/00	12:00	124227	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
09/18/00	12:00	124227	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
09/18/00	12:00	124227	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
09/18/00	12:00	124227	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
09/18/00	12:00	124227	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
09/18/00	12:00	124227	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
09/18/00	12:00	124227	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
09/18/00	12:00	124227	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
09/18/00	12:00	124227	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
09/18/00	12:00	124227	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
09/18/00	12:00	124227	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
09/18/00	12:00	124227	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
09/18/00	12:00	124227	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
09/18/00	12:00	124227	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
09/18/00	12:00	124227	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
09/18/00	12:00	124227	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
09/18/00	12:00	124227	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
09/18/00	12:00	124227	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
09/18/00	12:00	124227	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
09/18/00	12:00	124227	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
09/18/00	12:00	124227	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
09/18/00	12:00	124227	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
09/18/00	12:00	124227	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Foster Wheeler Environmental Corp
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	09/18/00 12:00	124227	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(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	87	% Rec		
			(Surrogate)	4-Bromofluorobenzene	103	% Rec		
			(Surrogate)	Toluene-d8	98	% Rec		

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Foster Wheeler Environmental Corp
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-003-010 (2009130002) Sampled on 09/12/00 12:10								
	09/21/00 12:00	124142	(CADHS/EPA314)	Perchlorate	ND	ug/l	4.0	1
MW-003-072 (2009130003) Sampled on 09/12/00 12:00								
	09/21/00 12:00	124142	(CADHS/EPA314)	Perchlorate	ND	ug/l	4.0	1
10/04/00	10/05/00 12:00	125131	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	09/12/00 05:00	123632	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
				Regulated VOCs plus Lists 1&3				
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1

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Foster Wheeler Environmental Corp
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	09/18/00 12:00	124227	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(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	97	% Rec		

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Foster Wheeler Environmental Corp
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
			(Surrogate)	4-Bromofluorobenzene	99	% Rec		
			(Surrogate)	Toluene-d8	101	% Rec		
MW-003-011 (2009130004) Sampled on 09/12/00 01:00								
	09/21/00 12:00	**124142**	**(CADHS/EPA314)**	**Perchlorate**	**ND**	**ug/l**	**4.0**	**1**
			Regulated VOCs plus Lists 1&3					
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental Corp
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	09/18/00 12:00	124227	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	UNKNOWN RT 5.13	3.4			1
			(Surrogate)	1,2-Dichloroethane-d4	94	% Rec		
			(Surrogate)	4-Bromofluorobenzene	99	% Rec		
			(Surrogate)	Toluene-d8	98	% Rec		

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Foster Wheeler Environmental Corp
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-003-012 (2009130005) Sampled on 09/12/00 01:55								
	09/21/00 12:00	124142	(CADHS/EPA314)	Perchlorate	ND	ug/l	4.0	1
10/04/00	10/05/00 12:00	125131	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	09/12/00 05:00	123632	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
				Regulated VOCs plus Lists 1&3				
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Foster Wheeler Environmental Corp
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	09/18/00 12:00	124227	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(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	95	% Rec		
			(Surrogate)	4-Bromofluorobenzene	92	% Rec		
			(Surrogate)	Toluene-d8	100	% Rec		

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Foster Wheeler Environmental Corp
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-003-013 (2009130006) Sampled on 09/12/00 02:30								
	09/21/00 12:00	124142	(CADHS/EPA314)	Perchlorate	5.6	ug/l	4.0	1
10/04/00	10/05/00 12:00	125131	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	09/12/00 05:00	123632	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
Regulated VOCs plus Lists 1&3								
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1-Dichloroethane	0.7	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Foster Wheeler Environmental Corp
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	09/18/00 12:00	124227	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	2.7	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	UNKNOWN RT 5.12	1.9			1
			(Surrogate)	1,2-Dichloroethane-d4	99	% Rec		
			(Surrogate)	4-Bromofluorobenzene	102	% Rec		
			(Surrogate)	Toluene-d8	98	% Rec		

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Laboratory
QC Summary
#69789

Foster Wheeler Environmental Corp

QC Batch #123632 - Hexavalent chromium (Cr VI) Analysis Date: 09/12/2000

2009130003	MW-003-072
2009130005	MW-003-012
2009130006	MW-003-013

QC Batch #124142 - Perchlorate Analysis Date: 09/21/2000

2009130002	MW-003-010
2009130003	MW-003-072
2009130004	MW-003-011
2009130005	MW-003-012
2009130006	MW-003-013

QC Batch #124227 - Regulated VOCs plus Lists 1&3 Analysis Date: 09/18/2000

2009130001	MW-003-071
2009130003	MW-003-072
2009130004	MW-003-011
2009130005	MW-003-012
2009130006	MW-003-013

QC Batch #125131 - Chromium, Total, ICAP/MS Analysis Date: 10/05/2000

2009130003	MW-003-072
2009130005	MW-003-012
2009130006	MW-003-013

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Laboratory
QC Report
#69789

Foster Wheeler Environmental Corp

QC Batch #123632 Hexavalent chromium (Cr VI)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Hexavalent chromium (Cr VI)	0.050	0.051	102.0	(78.00 - 118.00)	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.049	98.0	(78.00 - 118.00)	4.0
MBLK	Hexavalent chromium (Cr VI)	ND				
MS--2009130005	Hexavalent chromium (Cr VI)	0.050	0.049	98.0	(80.00 - 120.00)	
MSD--2009130005	Hexavalent chromium (Cr VI)	0.050	0.049	98.0	(80.00 - 120.00)	

QC Batch #124142 Perchlorate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 20	09130002		(0.00 - 0.00)	
LCS1	Perchlorate	25.0	25.3	101.2	(90.00 - 110.00)	
LCS2	Perchlorate	25.0	25.1	100.4	(90.00 - 110.00)	0.79
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	22.2	111.0	(75.00 - 125.00)	
MSD	Perchlorate	20.0	21.0	105.0	(75.00 - 125.00)	5.6

QC Batch #124227 Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	1,1,1,2-Tetrachloroethane	4	4.28	107.0	(70.00 - 130.00)	
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	4	4.31	107.7	(76.00 - 116.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	3.83	95.8	(72.00 - 117.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	4.25	106.2	(71.00 - 116.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	4.39	109.7	(71.00 - 125.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	4.48	112.0	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				

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

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(continued)

MS	1,1-Dichloroethylene	4	4.26	106.5	(70.00 - 130.00)	
MSD	1,1-Dichloroethylene	4	4.54	113.5	(70.00 - 130.00)	6.4
LCS1	1,1-Dichloropropene	4	4.17	104.2	(70.00 - 130.00)	
MBLK	1,1-Dichloropropene	ND				
LCS1	1,2,3-Trichlorobenzene	4	4.33	108.2	(70.00 - 130.00)	
MBLK	1,2,3-Trichlorobenzene	ND				
LCS1	1,2,3-Trichloropropane	4	3.90	97.5	(70.00 - 130.00)	
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	4	4.23	105.8	(76.00 - 114.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
LCS1	1,2,4-Trimethylbenzene	4	3.94	98.5	(70.00 - 130.00)	
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	4	4.39	109.7	(70.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	4	4.20	105.0	(77.00 - 122.00)	
MBLK	1,2-Dichloropropane	ND				
LCS1	1,3,5-Trimethylbenzene	4	3.94	98.5	(70.00 - 130.00)	
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	4	4.33	108.2	(70.00 - 130.00)	
LCS1	1,3-Dichloropropane	8	8.74	109.2	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
LCS1	p-Dichlorobenzene (1,4-DCB)	4	3.86	96.5	(77.00 - 113.00)	
MBLK	p-Dichlorobenzene (1,4-DCB)	ND				
LCS1	2,2-Dichloropropane	4	4.43	110.8	(70.00 - 130.00)	
MBLK	2,2-Dichloropropane	ND				
LCS1	2-Butanone (MEK)	40	45.2	113.0	(70.00 - 130.00)	
MBLK	2-Butanone (MEK)	ND				
MBLK	2-Chloroethylvinylether	ND				
LCS1	o-Chlorotoluene	4	3.84	96.0	(70.00 - 130.00)	
MBLK	o-Chlorotoluene	ND				
LCS1	p-Chlorotoluene	4	3.88	97.0	(70.00 - 130.00)	
MBLK	p-Chlorotoluene	ND				
LCS1	4-Methyl-2-Pentanone (MIBK)	40	46.6	116.5	(70.00 - 130.00)	
MBLK	4-Methyl-2-Pentanone (MIBK)	ND				
MS	Spiked sample	Lab # 20	09130006		(0.00 - 0.00)	
LCS1	Benzene	4	4.32	108.0	(76.00 - 122.00)	

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Foster Wheeler Environmental Corp
(continued)

MBLK	Benzene	ND				
MS	Benzene	4	4.22	105.5	(70.00 - 130.00)	
MSD	Benzene	4	4.19	104.8	(70.00 - 130.00)	0.71
LCS1	Bromobenzene	4	3.89	97.2	(70.00 - 130.00)	
MBLK	Bromobenzene	ND				
LCS1	Bromomethane (Methyl Bromide)	2	2.33	116.5	(70.00 - 130.00)	
MBLK	Bromomethane (Methyl Bromide)	ND				
LCS1	cis-1,2-Dichloroethylene	4	4.25	106.2	(75.00 - 124.00)	
MBLK	cis-1,2-Dichloroethylene	ND				
LCS1	Chlorobenzene	4	4.36	109.0	(70.00 - 117.00)	
MBLK	Chlorobenzene	ND				
MS	Chlorobenzene	4	4.21	105.2	(70.00 - 130.00)	
MSD	Chlorobenzene	4	4.22	105.5	(70.00 - 130.00)	0.24
LCS1	Carbon Tetrachloride	4	4.31	107.7	(70.00 - 130.00)	
MBLK	Carbon Tetrachloride	ND				
MBLK	cis-1,3-Dichloropropene	ND				
LCS1	Bromoform	4	4.19	104.8	(70.00 - 130.00)	
MBLK	Bromoform	ND				
LCS1	Chloroform (Trichloromethane)	4	4.29	107.2	(74.00 - 124.00)	
MBLK	Chloroform (Trichloromethane)	ND				
LCS1	Bromochloromethane	4	4.28	107.0	(70.00 - 130.00)	
MBLK	Bromochloromethane	ND				
LCS1	Chloroethane	2	1.92	96.0	(70.00 - 130.00)	
MBLK	Chloroethane	ND				
LCS1	Chloromethane(Methyl Chloride)	2	1.66	83.0	(70.00 - 130.00)	
MBLK	Chloromethane(Methyl Chloride)	ND				
LCS1	Chlorodibromomethane	4	4.46	111.5	(70.00 - 130.00)	
MBLK	Chlorodibromomethane	ND				
LCS1	Dibromomethane	4	4.40	110.0	(70.00 - 130.00)	
MBLK	Dibromomethane	ND				
LCS1	Bromodichloromethane	4	4.30	107.5	(70.00 - 116.00)	
MBLK	Bromodichloromethane	ND				
LCS1	Dichloromethane	4	4.60	115.0	(70.00 - 130.00)	
MBLK	Dichloromethane	ND				
LCS1	Ethyl benzene	4	4.44	111.0	(70.00 - 130.00)	
MBLK	Ethyl benzene	ND				

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(continued)

LCS1	Dichlorodifluoromethane	2	1.53	76.5	(70.00 - 130.00)	
MBLK	Dichlorodifluoromethane	ND				
LCS1	Fluorotrichloromethane-Freon11	2	2.02	101.0	(71.00 - 118.00)	
MBLK	Fluorotrichloromethane-Freon11	ND				
LCS1	Hexachlorobutadiene	4	3.91	97.8	(70.00 - 130.00)	
MBLK	Hexachlorobutadiene	ND				
LCS1	Isopropylbenzene	4	3.88	97.0	(70.00 - 130.00)	
MBLK	Isopropylbenzene	ND				
LCS1	m-Dichlorobenzene (1,3-DCB)	4	3.83	95.8	(70.00 - 130.00)	
MBLK	m-Dichlorobenzene (1,3-DCB)	ND				
LCS1	m,p-Xylenes	8	8.60	107.5	(74.00 - 116.00)	
MBLK	m,p-Xylenes	ND				
LCS1	Naphthalene	4	4.18	104.5	(70.00 - 130.00)	
MBLK	Naphthalene	ND				
LCS1	n-Butylbenzene	4	4.23	105.8	(70.00 - 130.00)	
MBLK	n-Butylbenzene	ND				
LCS1	n-Propylbenzene	4	3.92	98.0	(70.00 - 130.00)	
MBLK	n-Propylbenzene	ND				
LCS1	o-Xylene	4	4.25	106.2	(72.00 - 118.00)	
MBLK	o-Xylene	ND				
LCS1	o-Dichlorobenzene (1,2-DCB)	4	4.08	102.0	(70.00 - 130.00)	
MBLK	o-Dichlorobenzene (1,2-DCB)	ND				
LCS1	Tetrachloroethylene (PCE)	4	4.38	109.5	(71.00 - 115.00)	
MBLK	Tetrachloroethylene (PCE)	ND				
LCS1	p-Isopropyltoluene	4	3.78	94.5	(70.00 - 130.00)	
MBLK	p-Isopropyltoluene	ND				
LCS1	sec-Butylbenzene	4	3.85	96.2	(70.00 - 130.00)	
MBLK	sec-Butylbenzene	ND				
LCS1	Styrene	4	4.43	110.8	(70.00 - 130.00)	
MBLK	Styrene	ND				
LCS1	1,2-dichloroethane-d4	100	106	106.0	(80.00 - 127.00)	
MBLK	1,2-dichloroethane-d4	100				
MS	1,2-dichloroethane-d4	100	103	103.0	(80.00 - 127.00)	
MSD	1,2-dichloroethane-d4	100	91	91.0	(80.00 - 127.00)	12
LCS1	Toluene-d8	100	101	101.0	(91.00 - 107.00)	
MBLK	Toluene-d8	100				

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Foster Wheeler Environmental Corp
(continued)

MS	Toluene-d8	100	101	101.0	(91.00 - 107.00)	
MSD	Toluene-d8	100	97	97.0	(91.00 - 107.00)	4.0
LCS1	4-Bromofluorobenzene	100	91	91.0	(86.00 - 115.00)	
MBLK	4-Bromofluorobenzene	100				
MS	4-Bromofluorobenzene	100	93	93.0	(86.00 - 115.00)	
MSD	4-Bromofluorobenzene	100	97	97.0	(86.00 - 115.00)	4.2
LCS1	trans-1,2-Dichloroethylene	4	4.47	111.8	(70.00 - 130.00)	
MBLK	trans-1,2-Dichloroethylene	ND				
LCS1	tert-Butylbenzene	4	3.81	95.2	(70.00 - 130.00)	
MBLK	tert-Butylbenzene	ND				
LCS1	Trichloroethylene (TCE)	4	4.13	103.2	(72.00 - 117.00)	
MBLK	Trichloroethylene (TCE)	ND				
MS	Trichloroethylene (TCE)	4	4.24	106.0	(70.00 - 130.00)	
MSD	Trichloroethylene (TCE)	4	4.37	109.2	(70.00 - 130.00)	3.0
LCS1	Trichlorotrifluoroethane(Freon	2	2.12	106.0	(70.00 - 130.00)	
MBLK	Trichlorotrifluoroethane(Freon	ND				
MBLK	trans-1,3-Dichloropropene	ND				
LCS1	Toluene	4	4.39	109.7	(74.00 - 117.00)	
MBLK	Toluene	ND				
MS	Toluene	4	4.37	109.2	(70.00 - 130.00)	
MSD	Toluene	4	4.31	107.7	(70.00 - 130.00)	1.4
LCS1	Vinyl chloride (VC)	2	2.09	104.5	(70.00 - 130.00)	
MBLK	Vinyl chloride (VC)	ND				

QC Batch #125131 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 20	09130006		(0.00 - 0.00)	
LCS1	Chromium, Total, ICAP/MS	100	95	95.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	98	98.0	(85.00 - 115.00)	3.1
MBLK	Chromium, Total, ICAP/MS	ND				
MS	Chromium, Total, ICAP/MS	100	92	92.0	(77.00 - 119.00)	
MSD	Chromium, Total, ICAP/MS	100	93	93.0	(77.00 - 119.00)	1.1

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MONTGOMERY WATSON LABORATORIES

A division of Montgomery Watson Americas, Inc.

Quality Environmental Analysis

October 9, 2000
Revised December 15, 2000

Attention: Mark Cutler
Foster Wheeler Environmental Corp
1940 E Deere St, Ste 200
Santa Ana, CA 92705

Report # 69816 (MW-003-073, MW-003-074, MW-003-067, MW-003-068, MW-003-069, MW-003-070)

Sampled: 09/13/00

Dear Mark,

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

Non-conformance (LCS, MS/MSD, Surrogates, and Holding Times)
(EPA 524.2) QC batch 124274 analyzed 9/19/00: The LCS for 1,2,4-Trichlorobenzene recovered above internal QC limits. The recovery is within method limits. The data is reported without qualification.

Samples requiring dilution (with increased MRL's):
MW-003-069 was diluted for chloroform.

Method blanks with compounds detected:
None

Comments:
Carbon Tetrachloride was detected in MW-003-069
Chloroform was detected in MW-003-069
Trichlorotrifluoroethane was detected in MW-003-069
Perchlorate was detected in MW-003- 069

TIC'S:
None

Method Variation:
TIC's are reported only if the final result is >0.5 ug/L.

Additional Comments:
MW-003-068 results for trichlorotrifluoroethane has been revised from 96 to ND.

Sincerely

Debbie Frank
Project Manager

CC: Judy Novelly (JPL)

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Fax: 626 568 6324

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Fax: 602 755 8203

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

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

NUM 1733

6916

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

PROJECT: IPC

OFS NO.: 1572 [illegible]

PROJECT ADDRESS: 4400 Oak Grove, Pasadena CA

SAMPLER (Name): Tom Turpin Keasler

SAMPLER (Signature): [illegible]

LABORATORY: Al Lane, Whatcom 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

ANALYSES REQUIRED

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL: WATER	SOIL	OTHER (Describe)	VOCs	Cr+6	Cr	Cl-	QC Cr+6					
MW-003-073	0930	9/13/00	3	40 ml	X			X									
MW-003-071	0950		6	3x40ml, 3x125ml	X			X	X	X	X						
MW-003-067	1130		1	125ml	X						X						
MW-003-069	1130		6	3x40ml 3x125ml	X			X	X	X	X	X					
MW-003-069	1230		6	3x40ml 3x125ml	X			X	X	X	X						
MW-003-07[illegible]	1330		6	3x40ml 3x125ml	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]	[illegible]	[illegible] 9/13/00			

F-2

MONTGOMERY LABORATORIES COOLER RECEIPT FORM

PROJECT: ENSERCH Date Received: 9-13-00

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: 9-13-00

by (print) Nancy Rodriguez (sign) [illegible]

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

2. Were custody seals on outside of cooler? **Yes** No
   If YES, how many & where: 2 on the lid
   If Yes, enter the following: seal date: 9-13-00, seal name: JD

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: NR (date) 9-13-00

B. LOG-IN PHASE: Date samples were logged-in: [illegible] by:
   (print) M. DE LA RESA (sign) [illegible]

9. Describe packing:

10. If required, was enough ice used? **Yes** No 6°C WET ICE

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 N/A [illegible] 9/18

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Laboratory Report

for

Foster Wheeler Environmental Corp
1940 E Deere St, Ste 200

Santa Ana, CA 92705

Santa Ana , CA 92705

Attention: Mark Cutler
Fax: 949 756-7560

REVISED
20091300BS
Trichlorotrifluoroethane

DATE OF ISSUE
DEC 0 5 2000
MONTGOMERY WATSON LABS

DEB* Debbie Frank
Project Manager

Report#: 69816
JPL

Laboratory certifies that the test results meet all **QA/QC** requirements unless noted in the Comments section or the Case Narrative. Following the cover page are Comments,QC Report,QC Summary,Data Report,Hits Report, totaling 24 page[s].

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Laboratory
Data Report
#69816

Foster Wheeler Environmental Corp
Mark Cutler
1940 E Deere St, Ste 200
Santa Ana, CA 92705
Santa Ana , CA 92705

Samples Received
09/13/00

MW-003-073 (2009130082) Sampled on 09/13/00 09:30

Regulated VOCs plus Lists 1&3

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
	09/19/00 12:00	124274	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/19/00 12:00	124274	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	09/19/00 12:00	124274	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/19/00 12:00	124274	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	09/19/00 12:00	124274	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	09/19/00 12:00	124274	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	09/19/00 12:00	124274	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	09/19/00 12:00	124274	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124274	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	09/19/00 12:00	124274	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124274	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124274	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	09/19/00 12:00	124274	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	09/19/00 12:00	124274	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124274	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	09/19/00 12:00	124274	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	09/19/00 12:00	124274	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	09/19/00 12:00	124274	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	09/19/00 12:00	124274	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	09/19/00 12:00	124274	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	09/19/00 12:00	124274	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	09/19/00 12:00	124274	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	09/19/00 12:00	124274	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124274	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	09/19/00 12:00	124274	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/19/00 12:00	124274	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124274	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	09/19/00 12:00	124274	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/19/00 12:00	124274	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Laboratory
Data Report
#69816

Foster Wheeler Environmental Corp
(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
	09/19/00 12:00	124274	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	09/19/00 12:00	124274	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	09/19/00 12:00	124274	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	09/19/00 12:00	124274	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	09/19/00 12:00	124274	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	09/19/00 12:00	124274	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	09/19/00 12:00	124274	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	09/19/00 12:00	124274	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	09/19/00 12:00	124274	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	09/19/00 12:00	124274	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	09/19/00 12:00	124274	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	09/19/00 12:00	124274	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	09/19/00 12:00	124274	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124274	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	09/19/00 12:00	124274	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	09/19/00 12:00	124274	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	09/19/00 12:00	124274	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124274	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124274	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	09/19/00 12:00	124274	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	09/19/00 12:00	124274	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	09/19/00 12:00	124274	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	09/19/00 12:00	124274	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124274	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	09/19/00 12:00	124274	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/19/00 12:00	124274	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124274	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	09/19/00 12:00	124274	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	09/19/00 12:00	124274	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/19/00 12:00	124274	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	09/19/00 12:00	124274	(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	88	% Rec		
			(Surrogate)	4-Bromofluorobenzene	103	% Rec		
			(Surrogate)	Toluene-d8	98	% Rec		

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Foster Wheeler Environmental Corp
(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
MW-003-074 (2009130083) Sampled on 09/13/00 09:50								
	09/21/00 12:00	124142	(CADHS/EPA314)	Perchlorate	ND	ug/l	4.0	1
10/04/00	10/05/00 12:00	125131	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	09/13/00 02:00	123633	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
			Regulated VOCs plus Lists 1&3					
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Foster Wheeler Environmental Corp
(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
	09/18/00 12:00	124227	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(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	97	% Rec		
			(Surrogate)	4-Bromofluorobenzene	102	% Rec		
			(Surrogate)	Toluene-d8	97	% Rec		

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Foster Wheeler Environmental Corp
(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
MW-003-067 (2009130084) Sampled on 09/13/00 10:30								
	09/21/00 12:00	124142	(CADHS/EPA314)	Perchlorate	ND	ug/l	4.0	1
MW-003-068 (2009130085) Sampled on 09/13/00 11:30								
	09/21/00 12:00	124142	(CADHS/EPA314)	Perchlorate	ND	ug/l	4.0	1
10/04/00	10/05/00 12:00	125131	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	09/13/00 02:00	123633	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
Regulated VOCs plus Lists 1&3								
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1

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(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
	09/18/00 12:00	124227	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(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	96	% Rec		

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Foster Wheeler Environmental Corp
(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
			(Surrogate)	4-Bromofluorobenzene	103	% Rec		
			(Surrogate)	Toluene-d8	99	% Rec		
MW-003-069 (2009130086) Sampled on 09/13/00 12:30								
	09/21/00 12:00	124142	(CADHS/EPA314)	Perchlorate	25	ug/l	4.0	1
10/04/00	10/05/00 12:00	125131	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	09/13/00 02:00	123633	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
			Regulated VOCs plus Lists 1&3					
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124227	(ML/EPA 524.2)	Carbon Tetrachloride	22	ug/l	1.0	2

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Foster Wheeler Environmental Corp
(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
	09/18/00 12:00	124227	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	09/19/00 12:00	124227	(ML/EPA 524.2)	Chloroform (Trichloromethane)	25	ug/l	1.0	2
	09/18/00 12:00	124227	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Trichloroethylene (TCE)	1.3	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	NONE DETECTED	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	98	% Rec		
			(Surrogate)	4-Bromofluorobenzene	95	% Rec		

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Foster Wheeler Environmental Corp
(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
			(Surrogate)	Toluene-d8	98	% Rec		
MW-003-070 (2009130087) Sampled on 09/13/00 01:30								
	09/21/00 12:00	124142	(CADHS/EPA314)	Perchlorate	ND	ug/l	4.0	1
10/04/00	10/05/00 12:00	125131	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	09/13/00 02:00	123633	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
			Regulated VOCs plus Lists 1&3					
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1

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Foster Wheeler Environmental Corp
(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
	09/18/00 12:00	124227	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(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	96	% Rec		
			(Surrogate)	4-Bromofluorobenzene	93	% Rec		
			(Surrogate)	Toluene-d8	99	% Rec		

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Foster Wheeler Environmental Corp
(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution

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Laboratory
QC Summary
#69816

Foster Wheeler Environmental Corp

QC Ref #123633 - Hexavalent chromium (Cr VI) Analysis Date: 09/13/2000

2009130083	MW-003-074
2009130085	MW-003-068
2009130086	MW-003-069
2009130087	MW-003-070

QC Ref #124142 - Perchlorate Analysis Date: 09/21/2000

2009130083	MW-003-074
2009130084	MW-003-067
2009130085	MW-003-068
2009130086	MW-003-069
2009130087	MW-003-070

QC Ref #124227 - Regulated VOCs plus Lists 1&3 Analysis Date: 09/18/2000

2009130083	MW-003-074
2009130085	MW-003-068
2009130086	MW-003-069
2009130086	MW-003-069
2009130087	MW-003-070

QC Ref #124274 - Regulated VOCs plus Lists 1&3 Analysis Date: 09/19/2000

2009130082	MW-003-073

QC Ref #125131 - Chromium, Total, ICAP/MS Analysis Date: 10/05/2000

2009130083	MW-003-074
2009130085	MW-003-068
2009130086	MW-003-069
2009130087	MW-003-070

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Laboratory
QC Report
#69816

Foster Wheeler Environmental Corp

QC Ref #123633 Hexavalent chromium (Cr VI)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Hexavalent chromium (Cr VI)	0.050	0.047	94.0	(78.00 - 118.00)	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.049	98.0	(78.00 - 118.00)	4.2
MBLK	Hexavalent chromium (Cr VI)	ND				
MS--2009130085	Hexavalent chromium (Cr VI)	0.050	0.050	100.0	(80.00 - 120.00)	
MSD--2009130085	Hexavalent chromium (Cr VI)	0.050	0.049	98.0	(80.00 - 120.00)	

QC Ref #124142 Perchlorate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 20	09130002		(0.00 - 0.00)	
LCS1	Perchlorate	25.0	25.3	101.2	(90.00 - 110.00)	
LCS2	Perchlorate	25.0	25.1	100.4	(90.00 - 110.00)	0.79
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	22.2	111.0	(75.00 - 125.00)	
MSD	Perchlorate	20.0	21.0	105.0	(75.00 - 125.00)	5.6

QC Ref #124227 Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	1,1,1,2-Tetrachloroethane	4	4.28	107.0	(70.00 - 130.00)	
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	4	4.31	107.7	(76.00 - 116.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	3.83	95.8	(72.00 - 117.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	4.25	106.2	(71.00 - 116.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	4.39	109.7	(71.00 - 125.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	4.48	112.0	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				

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MS	1,1-Dichloroethylene	4	4.26	106.5	(70.00 - 130.00)	
MSD	1,1-Dichloroethylene	4	4.54	113.5	(70.00 - 130.00)	6.4
LCS1	1,1-Dichloropropene	4	4.17	104.2	(70.00 - 130.00)	
MBLK	1,1-Dichloropropene	ND				
LCS1	1,2,3-Trichlorobenzene	4	4.33	108.2	(70.00 - 130.00)	
MBLK	1,2,3-Trichlorobenzene	ND				
LCS1	1,2,3-Trichloropropane	4	3.90	97.5	(70.00 - 130.00)	
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	4	4.23	105.8	(76.00 - 114.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
LCS1	1,2,4-Trimethylbenzene	4	3.94	98.5	(70.00 - 130.00)	
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	4	4.39	109.7	(70.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	4	4.20	105.0	(77.00 - 122.00)	
MBLK	1,2-Dichloropropane	ND				
LCS1	1,3,5-Trimethylbenzene	4	3.94	98.5	(70.00 - 130.00)	
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	4	4.33	108.2	(70.00 - 130.00)	
LCS1	1,3-Dichloropropane	8	8.74	109.2	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
LCS1	p-Dichlorobenzene (1,4-DCB)	4	3.86	96.5	(77.00 - 113.00)	
MBLK	p-Dichlorobenzene (1,4-DCB)	ND				
LCS1	2,2-Dichloropropane	4	4.43	110.8	(70.00 - 130.00)	
MBLK	2,2-Dichloropropane	ND				
LCS1	2-Butanone (MEK)	40	45.2	113.0	(70.00 - 130.00)	
MBLK	2-Butanone (MEK)	ND				
MBLK	2-Chloroethylvinylether	ND				
LCS1	o-Chlorotoluene	4	3.84	96.0	(70.00 - 130.00)	
MBLK	o-Chlorotoluene	ND				
LCS1	p-Chlorotoluene	4	3.88	97.0	(70.00 - 130.00)	
MBLK	p-Chlorotoluene	ND				
LCS1	4-Methyl-2-Pentanone (MIBK)	40	46.6	116.5	(70.00 - 130.00)	
MBLK	4-Methyl-2-Pentanone (MIBK)	ND				
MS	Spiked sample	Lab # 20	09130006		(0.00 - 0.00)	
LCS1	Benzene	4	4.32	108.0	(76.00 - 122.00)	

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(continued)

MBLK	Benzene	ND				
MS	Benzene	4	4.22	105.5	(70.00 - 130.00)	
MSD	Benzene	4	4.19	104.8	(70.00 - 130.00)	0.71
LCS1	Bromobenzene	4	3.89	97.2	(70.00 - 130.00)	
MBLK	Bromobenzene	ND				
LCS1	Bromomethane (Methyl Bromide)	2	2.33	116.5	(70.00 - 130.00)	
MBLK	Bromomethane (Methyl Bromide)	ND				
LCS1	cis-1,2-Dichloroethylene	4	4.25	106.2	(75.00 - 124.00)	
MBLK	cis-1,2-Dichloroethylene	ND				
LCS1	Chlorobenzene	4	4.36	109.0	(70.00 - 117.00)	
MBLK	Chlorobenzene	ND				
MS	Chlorobenzene	4	4.21	105.2	(70.00 - 130.00)	
MSD	Chlorobenzene	4	4.22	105.5	(70.00 - 130.00)	0.24
LCS1	Carbon Tetrachloride	4	4.31	107.7	(70.00 - 130.00)	
MBLK	Carbon Tetrachloride	ND				
MBLK	cis-1,3-Dichloropropene	ND				
LCS1	Bromoform	4	4.19	104.8	(70.00 - 130.00)	
MBLK	Bromoform	ND				
LCS1	Chloroform (Trichloromethane)	4	4.29	107.2	(74.00 - 124.00)	
MBLK	Chloroform (Trichloromethane)	ND				
LCS1	Bromochloromethane	4	4.28	107.0	(70.00 - 130.00)	
MBLK	Bromochloromethane	ND				
LCS1	Chloroethane	2	1.92	96.0	(70.00 - 130.00)	
MBLK	Chloroethane	ND				
LCS1	Chloromethane(Methyl Chloride)	2	1.66	83.0	(70.00 - 130.00)	
MBLK	Chloromethane(Methyl Chloride)	ND				
LCS1	Chlorodibromomethane	4	4.46	111.5	(70.00 - 130.00)	
MBLK	Chlorodibromomethane	ND				
LCS1	Dibromomethane	4	4.40	110.0	(70.00 - 130.00)	
MBLK	Dibromomethane	ND				
LCS1	Bromodichloromethane	4	4.30	107.5	(70.00 - 116.00)	
MBLK	Bromodichloromethane	ND				
LCS1	Dichloromethane	4	4.60	115.0	(70.00 - 130.00)	
MBLK	Dichloromethane	ND				
LCS1	Ethyl benzene	4	4.44	111.0	(70.00 - 130.00)	
MBLK	Ethyl benzene	ND				

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(continued)

LCS1	Dichlorodifluoromethane	2	1.53	76.5	(70.00 - 130.00)	
MBLK	Dichlorodifluoromethane	ND				
LCS1	Fluorotrichloromethane-Freon11	2	2.02	101.0	(71.00 - 118.00)	
MBLK	Fluorotrichloromethane-Freon11	ND				
LCS1	Hexachlorobutadiene	4	3.91	97.8	(70.00 - 130.00)	
MBLK	Hexachlorobutadiene	ND				
LCS1	Isopropylbenzene	4	3.88	97.0	(70.00 - 130.00)	
MBLK	Isopropylbenzene	ND				
LCS1	m-Dichlorobenzene (1,3-DCB)	4	3.83	95.8	(70.00 - 130.00)	
MBLK	m-Dichlorobenzene (1,3-DCB)	ND				
LCS1	m,p-Xylenes	8	8.60	107.5	(74.00 - 116.00)	
MBLK	m,p-Xylenes	ND				
LCS1	Naphthalene	4	4.18	104.5	(70.00 - 130.00)	
MBLK	Naphthalene	ND				
LCS1	n-Butylbenzene	4	4.23	105.8	(70.00 - 130.00)	
MBLK	n-Butylbenzene	ND				
LCS1	n-Propylbenzene	4	3.92	98.0	(70.00 - 130.00)	
MBLK	n-Propylbenzene	ND				
LCS1	o-Xylene	4	4.25	106.2	(72.00 - 118.00)	
MBLK	o-Xylene	ND				
LCS1	o-Dichlorobenzene (1,2-DCB)	4	4.08	102.0	(70.00 - 130.00)	
MBLK	o-Dichlorobenzene (1,2-DCB)	ND				
LCS1	Tetrachloroethylene (PCE)	4	4.38	109.5	(71.00 - 115.00)	
MBLK	Tetrachloroethylene (PCE)	ND				
LCS1	p-Isopropyltoluene	4	3.78	94.5	(70.00 - 130.00)	
MBLK	p-Isopropyltoluene	ND				
LCS1	sec-Butylbenzene	4	3.85	96.2	(70.00 - 130.00)	
MBLK	sec-Butylbenzene	ND				
LCS1	Styrene	4	4.43	110.8	(70.00 - 130.00)	
MBLK	Styrene	ND				
LCS1	1,2-dichloroethane-d4	100	106	106.0	(80.00 - 127.00)	
MBLK	1,2-dichloroethane-d4	100				
MS	1,2-dichloroethane-d4	100	103	103.0	(80.00 - 127.00)	
MSD	1,2-dichloroethane-d4	100	91	91.0	(80.00 - 127.00)	12
LCS1	Toluene-d8	100	101	101.0	(91.00 - 107.00)	
MBLK	Toluene-d8	100				

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(continued)

MS	Toluene-d8	100	101	101.0	(91.00 - 107.00)	
MSD	Toluene-d8	100	97	97.0	(91.00 - 107.00)	4.0
LCS1	4-Bromofluorobenzene	100	91	91.0	(86.00 - 115.00)	
MBLK	4-Bromofluorobenzene	100				
MS	4-Bromofluorobenzene	100	93	93.0	(86.00 - 115.00)	
MSD	4-Bromofluorobenzene	100	97	97.0	(86.00 - 115.00)	4.2
LCS1	trans-1,2-Dichloroethylene	4	4.47	111.8	(70.00 - 130.00)	
MBLK	trans-1,2-Dichloroethylene	ND				
LCS1	tert-Butylbenzene	4	3.81	95.2	(70.00 - 130.00)	
MBLK	tert-Butylbenzene	ND				
LCS1	Trichloroethylene (TCE)	4	4.13	103.2	(72.00 - 117.00)	
MBLK	Trichloroethylene (TCE)	ND				
MS	Trichloroethylene (TCE)	4	4.24	106.0	(70.00 - 130.00)	
MSD	Trichloroethylene (TCE)	4	4.37	109.2	(70.00 - 130.00)	3.0
LCS1	Trichlorotrifluoroethane(Freon	2	2.12	106.0	(70.00 - 130.00)	
MBLK	Trichlorotrifluoroethane(Freon	ND				
MBLK	trans-1,3-Dichloropropene	ND				
LCS1	Toluene	4	4.39	109.7	(74.00 - 117.00)	
MBLK	Toluene	ND				
MS	Toluene	4	4.37	109.2	(70.00 - 130.00)	
MSD	Toluene	4	4.31	107.7	(70.00 - 130.00)	1.4
LCS1	Vinyl chloride (VC)	2	2.09	104.5	(70.00 - 130.00)	
MBLK	Vinyl chloride (VC)	ND				

QC Ref #124274 Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	1,1,1,2-Tetrachloroethane	4	4.25	106.2	(70.00 - 130.00)	
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	4	4.24	106.0	(76.00 - 116.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	4.34	108.5	(72.00 - 117.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	4.38	109.5	(71.00 - 116.00)	
MBLK	1,1,2-Trichloroethane	ND				

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LCS1	1,1-Dichloroethane	4	4.30	107.5	(71.00 - 125.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	4.03	100.8	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MS	1,1-Dichloroethylene	4	4.45	111.2	(70.00 - 130.00)	
MSD	1,1-Dichloroethylene	4	4.30	107.5	(70.00 - 130.00)	3.4
LCS1	1,1-Dichloropropene	4	3.97	99.2	(70.00 - 130.00)	
MBLK	1,1-Dichloropropene	ND				
LCS1	1,2,3-Trichlorobenzene	4	4.73	118.3	(70.00 - 130.00)	
MBLK	1,2,3-Trichlorobenzene	ND				
LCS1	1,2,3-Trichloropropane	4	4.49	112.2	(70.00 - 130.00)	
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	4	4.67	116.8	(76.00 - 114.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
LCS1	1,2,4-Trimethylbenzene	4	4.33	108.2	(70.00 - 130.00)	
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	4	4.43	110.8	(70.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	4	4.24	106.0	(77.00 - 122.00)	
MBLK	1,2-Dichloropropane	ND				
LCS1	1,3,5-Trimethylbenzene	4	4.33	108.2	(70.00 - 130.00)	
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	4	4.37	109.2	(70.00 - 130.00)	
LCS1	1,3-Dichloropropane	8	8.74	109.2	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
LCS1	p-Dichlorobenzene (1,4-DCB)	4	4.34	108.5	(77.00 - 113.00)	
MBLK	p-Dichlorobenzene (1,4-DCB)	ND				
LCS1	2,2-Dichloropropane	4	4.24	106.0	(70.00 - 130.00)	
MBLK	2,2-Dichloropropane	ND				
LCS1	2-Butanone (MEK)	40	42.8	107.0	(70.00 - 130.00)	
MBLK	2-Butanone (MEK)	ND				
MBLK	2-Chloroethylvinylether	ND				
LCS1	o-Chlorotoluene	4	4.32	108.0	(70.00 - 130.00)	
MBLK	o-Chlorotoluene	ND				
LCS1	p-Chlorotoluene	4	4.28	107.0	(70.00 - 130.00)	
MBLK	p-Chlorotoluene	ND				

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(continued)

LCS1	4-Methyl-2-Pentanone (MIBK)	40	46.4	116.0	(70.00 - 130.00)	
MBLK	4-Methyl-2-Pentanone (MIBK)	ND				
MS	Spiked sample	Lab # 20	09180311		(0.00 - 0.00)	
LCS1	Benzene	4	4.35	108.7	(76.00 - 122.00)	
MBLK	Benzene	ND				
MS	Benzene	4	4.42	110.5	(70.00 - 130.00)	
MSD	Benzene	4	4.44	111.0	(70.00 - 130.00)	0.45
LCS1	Bromobenzene	4	4.39	109.7	(70.00 - 130.00)	
MBLK	Bromobenzene	ND				
LCS1	Bromomethane (Methyl Bromide)	2	2.42	121.0	(70.00 - 130.00)	
MBLK	Bromomethane (Methyl Bromide)	ND				
LCS1	cis-1,2-Dichloroethylene	4	4.16	104.0	(75.00 - 124.00)	
MBLK	cis-1,2-Dichloroethylene	ND				
LCS1	Chlorobenzene	4	4.32	108.0	(70.00 - 117.00)	
MBLK	Chlorobenzene	ND				
MS	Chlorobenzene	4	4.36	109.0	(70.00 - 130.00)	
MSD	Chlorobenzene	4	4.48	112.0	(70.00 - 130.00)	2.7
LCS1	Carbon Tetrachloride	4	4.19	104.8	(70.00 - 130.00)	
MBLK	Carbon Tetrachloride	ND				
MBLK	cis-1,3-Dichloropropene	ND				
LCS1	Bromoform	4	4.58	114.5	(70.00 - 130.00)	
MBLK	Bromoform	ND				
LCS1	Chloroform (Trichloromethane)	4	4.20	105.0	(74.00 - 124.00)	
MBLK	Chloroform (Trichloromethane)	ND				
LCS1	Bromochloromethane	4	4.28	107.0	(70.00 - 130.00)	
MBLK	Bromochloromethane	ND				
LCS1	Chloroethane	2	2.02	101.0	(70.00 - 130.00)	
MBLK	Chloroethane	ND				
LCS1	Chloromethane(Methyl Chloride)	2	1.72	86.0	(70.00 - 130.00)	
MBLK	Chloromethane(Methyl Chloride)	ND				
LCS1	Chlorodibromomethane	4	4.50	112.5	(70.00 - 130.00)	
MBLK	Chlorodibromomethane	ND				
LCS1	Dibromomethane	4	4.44	111.0	(70.00 - 130.00)	
MBLK	Dibromomethane	ND				
LCS1	Bromodichloromethane	4	4.27	106.7	(70.00 - 116.00)	
MBLK	Bromodichloromethane	ND				

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(continued)

LCS1	Dichloromethane	4	3.96	99.0	(70.00 - 130.00)
MBLK	Dichloromethane	ND			
LCS1	Ethyl benzene	4	4.33	108.2	(70.00 - 130.00)
MBLK	Ethyl benzene	ND			
LCS1	Dichlorodifluoromethane	2	1.52	76.0	(70.00 - 130.00)
MBLK	Dichlorodifluoromethane	ND			
LCS1	Fluorotrichloromethane-Freon11	2	1.76	88.0	(71.00 - 118.00)
MBLK	Fluorotrichloromethane-Freon11	ND			
LCS1	Hexachlorobutadiene	4	4.10	102.5	(70.00 - 130.00)
MBLK	Hexachlorobutadiene	ND			
LCS1	Isopropylbenzene	4	4.23	105.8	(70.00 - 130.00)
MBLK	Isopropylbenzene	ND			
LCS1	m-Dichlorobenzene (1,3-DCB)	4	4.30	107.5	(70.00 - 130.00)
MBLK	m-Dichlorobenzene (1,3-DCB)	ND			
LCS1	m,p-Xylenes	8	8.60	107.5	(74.00 - 116.00)
MBLK	m,p-Xylenes	ND			
LCS1	Naphthalene	4	4.75	118.8	(70.00 - 130.00)
MBLK	Naphthalene	ND			
LCS1	n-Butylbenzene	4	4.53	113.2	(70.00 - 130.00)
MBLK	n-Butylbenzene	ND			
LCS1	n-Propylbenzene	4	4.35	108.7	(70.00 - 130.00)
MBLK	n-Propylbenzene	ND			
LCS1	o-Xylene	4	4.25	106.2	(72.00 - 118.00)
MBLK	o-Xylene	ND			
LCS1	o-Dichlorobenzene (1,2-DCB)	4	4.57	114.2	(70.00 - 130.00)
MBLK	o-Dichlorobenzene (1,2-DCB)	ND			
LCS1	Tetrachloroethylene (PCE)	4	4.28	107.0	(71.00 - 115.00)
MBLK	Tetrachloroethylene (PCE)	ND			
LCS1	p-Isopropyltoluene	4	4.11	102.8	(70.00 - 130.00)
MBLK	p-Isopropyltoluene	ND			
LCS1	sec-Butylbenzene	4	4.24	106.0	(70.00 - 130.00)
MBLK	sec-Butylbenzene	ND			
LCS1	Styrene	4	4.51	112.8	(70.00 - 130.00)
MBLK	Styrene	ND			
LCS1	1,2-dichloroethane-d4	100	94	94.0	(80.00 - 127.00)
MBLK	1,2-dichloroethane-d4	100	95	95.0	

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

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Foster Wheeler Environmental Corp
(continued)

MS	1,2-dichloroethane-d4	100	96	96.0	(80.00 - 127.00)	
MSD	1,2-dichloroethane-d4	100	99	99.0	(80.00 - 127.00)	3.1
LCS1	Toluene-d8	100	102	102.0	(91.00 - 107.00)	
MBLK	Toluene-d8	100	101	101.0		
MS	Toluene-d8	100	99	99.0	(91.00 - 107.00)	
MSD	Toluene-d8	100	102	102.0	(91.00 - 107.00)	3.0
LCS1	4-Bromofluorobenzene	100	97	97.0	(86.00 - 115.00)	
MBLK	4-Bromofluorobenzene	100	98	98.0		
MS	4-Bromofluorobenzene	100	96	96.0	(86.00 - 115.00)	
MSD	4-Bromofluorobenzene	100	97	97.0	(86.00 - 115.00)	1.0
LCS1	trans-1,2-Dichloroethylene	4	4.50	112.5	(70.00 - 130.00)	
MBLK	trans-1,2-Dichloroethylene	ND				
LCS1	tert-Butylbenzene	4	4.15	103.8	(70.00 - 130.00)	
MBLK	tert-Butylbenzene	ND				
LCS1	Trichloroethylene (TCE)	4	4.10	102.5	(72.00 - 117.00)	
MBLK	Trichloroethylene (TCE)	ND				
MS	Trichloroethylene (TCE)	4	4.09	102.2	(70.00 - 130.00)	
MSD	Trichloroethylene (TCE)	4	4.13	103.2	(70.00 - 130.00)	0.97
LCS1	Trichlorotrifluoroethane(Freon	2	2.08	104.0	(70.00 - 130.00)	
MBLK	Trichlorotrifluoroethane(Freon	ND				
MBLK	trans-1,3-Dichloropropene	ND				
LCS1	Toluene	4	4.36	109.0	(74.00 - 117.00)	
MBLK	Toluene	ND				
MS	Toluene	4	4.48	112.0	(70.00 - 130.00)	
MSD	Toluene	4	4.52	113.0	(70.00 - 130.00)	0.89
LCS1	Vinyl chloride (VC)	2	2.02	101.0	(70.00 - 130.00)	
MBLK	Vinyl chloride (VC)	ND				

QC Ref #125131 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 20	09130006		(0.00 - 0.00)	
LCS1	Chromium, Total, ICAP/MS	100	95	95.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	98	98.0	(85.00 - 115.00)	3.1
MBLK	Chromium, Total, ICAP/MS	ND				

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(continued)

MS	Chromium, Total, ICAP/MS	100	92	92.0	(77.00 - 119.00)
MSD	Chromium, Total, ICAP/MS	100	93	93.0	(77.00 - 119.00) 1.1

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

MONTGOMERY WATSON LABORATORIES

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Quality Environmental Analysis

October 11, 2000

Attention: Mark Cutler
Foster Wheeler Environmental Corp
1940 E Deere St, Ste 200
Santa Ana, CA 92705

Report # 69880 (MW-003-075, MW-003-076, MW-003-033, MW-003-034, MW-003-035, MW-003-036)

Sampled: 09/14/00

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)
(EPA 524.2) The surrogate recovery for MW-003-035, toluene-d8, recovered outside internal QC limits. The recovery is within method limits. The results are reported without qualification.

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

Method blanks with compounds detected:
None

Comments:
Carbon tetrachloride was detected in MW-003-052, -053
Chloroform was detected in MW-003-051, -052, -053

TIC'S:
An unknown at RT 5.12 was detected in MW-003-036

Method Variation:
TIC's are reported only if the final result is >0.5 ug/L.

Additional Comments:
None

Sincerely

Debbie Frank
Project Manager

CC: Judy Novelly (JPL)

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

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

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

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

FOSTER WHEELER ENVIRONMENTAL CORPORATION 69880

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PROJECT: JPL

OFS NO.: 1512.0316

PROJECT ADDRESS: 4800 Oakgrove Dr Pasadena CA

SAMPLER (Name): Tania Turrijo-Kinsler

SAMPLER (Signature): [illegible]

LABORATORY: Mountain View Wilson Lab

REPORTS TO BE SENT TO: Mr Mark Cutler

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

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

ANALYSES REQUIRED

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL: WATER	SOIL	OTHER (Describe)	VOCs	Cr total	Cr+6	ClO4-	MtBE VOCs	Methanol VOCs	Methanol Cr	QC Cr+6		
MW-003-075	0930	9/14/00	3	40ml	X			X									
MW-003-076	0940		6	3x40ml 3x125ml	X			X	X	X	X						
MW-003-033	1030		4	3x40ml 1x125ml	X			X			X						
MW-003-031	1130		6	3x40ml 3x125ml	X			X	X	X	X						
MW-003-035	1230		6	3x40ml 3x125ml	X			X	X	X	X			X			
MW-003-035MS	1230		3	40ml	X							X					
MW-003-035MSD	1230		3	40ml	X								X				
MW-003-036	1345		6	3x40ml 2x125ml, 1x250ml	X			X	X	X	X				X		

LABORATORY INSTRUCTIONS/COMMENTS

Level IV QA/QC

RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)	RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)
[illegible]	9-14-00	[illegible]			
COMPANY: FWEC	TIME: 4:30 pm	COMPANY: [illegible]	COMPANY	TIME	COMPANY

MONTGOMERY LABORATORIES COOLER RECEIPT FORM

PROJECT: ENSERCH (FOSTER WHEELER) Date Received: 9-14-00

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: 9-14-00

by (print) M. DE WEST (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? 2 Yes No
   If YES, how many & where: _____
   If Yes, enter the following: seal date: 9-14-00, seal name: TTK

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

4. Were custody papers sealed in bag & taped to lid? MD 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 9-14-00 (date) 9-14-00

B. LOG-IN PHASE: Date samples were logged-in: 9-15-00 by:
   (print) M. DE WEST (sign) _____

9. Describe packing:

10. If required, was enough ice used? Yes No 62

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 used for the analytes? Yes No

16. Were correct preservatives used when required? Yes No

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

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

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

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Laboratory Report

for

Foster Wheeler Environmental Corp
1940 E Deere St, Ste 200

Santa Ana, CA 92705

Santa Ana , CA 92705

Attention: Mark Cutler
Fax: 949 756-7560

DATE OF ISSUE
OCT 1 0 2000
MONTGOMERY WATSON LABS

DEB* Debbie Frank
Project Manager

Report#: 69880
JPL

Laboratory certifies that the test results meet all **QA/QC** requirements unless noted in the Comments section or the Case Narrative. Following the cover page are Comments,QC Report,QC Summary,Data Report, totaling 19 page[s].

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Laboratory
Data Report
#69880

Foster Wheeler Environmental Corp
Mark Cutler
1940 E Deere St, Ste 200
Santa Ana, CA 92705
Santa Ana , CA 92705

Samples Received
09/14/00

MW-003-075 (2009150002) Sampled on 09/14/00 09:30

Regulated VOCs plus Lists 1&3

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
09/18/00	12:00	124227	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
09/18/00	12:00	124227	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
09/18/00	12:00	124227	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
09/18/00	12:00	124227	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
09/18/00	12:00	124227	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
09/18/00	12:00	124227	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
09/18/00	12:00	124227	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
09/18/00	12:00	124227	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
09/18/00	12:00	124227	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
09/18/00	12:00	124227	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
09/18/00	12:00	124227	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
09/18/00	12:00	124227	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
09/18/00	12:00	124227	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
09/18/00	12:00	124227	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
09/18/00	12:00	124227	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
09/18/00	12:00	124227	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
09/18/00	12:00	124227	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
09/18/00	12:00	124227	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
09/18/00	12:00	124227	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
09/18/00	12:00	124227	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
09/18/00	12:00	124227	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
09/18/00	12:00	124227	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
09/18/00	12:00	124227	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
09/18/00	12:00	124227	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
09/18/00	12:00	124227	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
09/18/00	12:00	124227	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
09/18/00	12:00	124227	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
09/18/00	12:00	124227	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
09/18/00	12:00	124227	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Foster Wheeler Environmental Corp
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	09/18/00 12:00	124227	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(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	96	% Rec		
			(Surrogate)	Toluene-d8	100	% Rec		

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Foster Wheeler Environmental Corp
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-003-076 (2009150003) Sampled on 09/14/00 09:40								
	09/21/00 12:00	124142	(CADHS/EPA314)	Perchlorate	ND	ug/l	4.0	1
10/04/00	10/05/00 12:00	125131	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	09/14/00 05:09	124400	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
Regulated VOCs plus Lists 1&3								
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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1 800 566 LABS (1 800 566 5227)

Foster Wheeler Environmental Corp
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	09/18/00 12:00	124227	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	NONE DETECTED	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	100	% Rec		
			(Surrogate)	4-Bromofluorobenzene	95	% Rec		
			(Surrogate)	Toluene-d8	97	% Rec		

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Foster Wheeler Environmental Corp
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-003-033 (2009150004) Sampled on 09/14/00 10:30								
	09/21/00 12:00	124142	(CADHS/EPA314)	Perchlorate	12	ug/l	4.0	1
Regulated VOCs plus Lists 1&3								
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Chloroform (Trichloromethane)	1.5	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1

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Foster Wheeler Environmental Corp
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	09/18/00 12:00	124227	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Trichloroethylene (TCE)	6.3	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(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	95	% Rec		
			(Surrogate)	4-Bromofluorobenzene	101	% Rec		
			(Surrogate)	Toluene-d8	98	% Rec		

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Foster Wheeler Environmental Corp
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-003-034 (2009150005) Sampled on 09/14/00 11:30								
	09/21/00 12:00	124142	(CADHS/EPA314)	Perchlorate	13	ug/l	4.0	1
10/04/00	10/05/00 12:00	125131	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	09/14/00 05:09	124400	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
				Regulated VOCs plus Lists 1&3				
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Foster Wheeler Environmental Corp
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	09/18/00 12:00	124227	(ML/EPA 524.2)	Chloroform (Trichloromethane)	1.3	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Trichloroethylene (TCE)	5.5	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(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	96	% Rec		
			(Surrogate)	4-Bromofluorobenzene	100	% Rec		
			(Surrogate)	Toluene-d8	101	% Rec		

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Foster Wheeler Environmental Corp
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-003-035 (2009150006) Sampled on 09/14/00 12:30								
	09/21/00 12:00	124142	(CADHS/EPA314)	Perchlorate	ND	ug/l	4.0	1
10/04/00	10/05/00 12:00	125131	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	09/14/00 05:09	124400	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
				Regulated VOCs plus Lists 1&3				
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Carbon Tetrachloride	0.6	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Foster Wheeler Environmental Corp
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	09/18/00 12:00	124227	(ML/EPA 524.2)	Chloroform (Trichloromethane)	3.5	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Trichloroethylene (TCE)	1.9	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	09/18/00 12:00	124227	(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	95	% Rec		
			(Surrogate)	Toluene-d8	71	% Rec		

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Foster Wheeler Environmental Corp
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-003-036 (2009150007) Sampled on 09/14/00 01:45								
	09/22/00 12:00	124142	(CADHS/EPA314)	Perchlorate	ND	ug/l	4.0	1
10/04/00	10/05/00 12:00	125131	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	09/14/00 05:09	124400	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
Regulated VOCs plus Lists 1&3								
	09/19/00 12:00	124227	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/19/00 12:00	124227	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	09/19/00 12:00	124227	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/19/00 12:00	124227	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	09/19/00 12:00	124227	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	09/19/00 12:00	124227	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	09/19/00 12:00	124227	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	09/19/00 12:00	124227	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124227	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	09/19/00 12:00	124227	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124227	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124227	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	09/19/00 12:00	124227	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	09/19/00 12:00	124227	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124227	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	09/19/00 12:00	124227	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	09/19/00 12:00	124227	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	09/19/00 12:00	124227	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	09/19/00 12:00	124227	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	09/19/00 12:00	124227	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	09/19/00 12:00	124227	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	09/19/00 12:00	124227	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	09/19/00 12:00	124227	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124227	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	09/19/00 12:00	124227	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/19/00 12:00	124227	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124227	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	09/19/00 12:00	124227	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/19/00 12:00	124227	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Foster Wheeler Environmental Corp
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	09/19/00 12:00	124227	(ML/EPA 524.2)	Chloroform (Trichloromethane)	1.0	ug/l	0.50	1
	09/19/00 12:00	124227	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	09/19/00 12:00	124227	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	09/19/00 12:00	124227	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	09/19/00 12:00	124227	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	09/19/00 12:00	124227	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	09/19/00 12:00	124227	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	09/19/00 12:00	124227	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	09/19/00 12:00	124227	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	09/19/00 12:00	124227	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	09/19/00 12:00	124227	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	09/19/00 12:00	124227	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	09/19/00 12:00	124227	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124227	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	09/19/00 12:00	124227	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	09/19/00 12:00	124227	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	09/19/00 12:00	124227	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124227	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124227	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	09/19/00 12:00	124227	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	09/19/00 12:00	124227	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	09/19/00 12:00	124227	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	09/19/00 12:00	124227	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124227	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	09/19/00 12:00	124227	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/19/00 12:00	124227	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124227	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	09/19/00 12:00	124227	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	09/19/00 12:00	124227	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/19/00 12:00	124227	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	09/19/00 12:00	124227	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	UNKNOWN RT 5.12	2.1			1
			(Surrogate)	1,2-Dichloroethane-d4	96	% Rec		
			(Surrogate)	4-Bromofluorobenzene	94	% Rec		
			(Surrogate)	Toluene-d8	92	% Rec		

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Laboratory
QC Summary
#69880

Foster Wheeler Environmental Corp

QC Batch #124142 - Perchlorate **Analysis Date: 09/21/2000**

2009150003	MW-003-076
2009150004	MW-003-033
2009150005	MW-003-034
2009150006	MW-003-035
2009150007	MW-003-036

QC Batch #124227 - Regulated VOCs plus Lists 1&3 **Analysis Date: 09/18/2000**

2009150002	MW-003-075
2009150003	MW-003-076
2009150004	MW-003-033
2009150005	MW-003-034
2009150006	MW-003-035
2009150007	MW-003-036

QC Batch #124400 - Hexavalent chromium (Cr VI) **Analysis Date: 09/14/2000**

2009150003	MW-003-076
2009150005	MW-003-034
2009150006	MW-003-035
2009150007	MW-003-036

QC Batch #125131 - Chromium, Total, ICAP/MS **Analysis Date: 10/05/2000**

2009150003	MW-003-076
2009150005	MW-003-034
2009150006	MW-003-035
2009150007	MW-003-036

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Report
Comments
#69880

(Sample#: 2009150006)
Test: Toluene-d8
within method QC limit of 70 to 130%

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Laboratory
QC Report
#69880

Foster Wheeler Environmental Corp

QC Batch #124142 Perchlorate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 20	09130002		(0.00 - 0.00)	
LCS1	Perchlorate	25.0	25.3	101.2	(90.00 - 110.00)	
LCS2	Perchlorate	25.0	25.1	100.4	(90.00 - 110.00)	0.79
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	22.2	111.0	(75.00 - 125.00)	
MSD	Perchlorate	20.0	21.0	105.0	(75.00 - 125.00)	5.6

QC Batch #124227 Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	1,1,1,2-Tetrachloroethane	4	4.28	107.0	(70.00 - 130.00)	
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	4	4.31	107.7	(76.00 - 116.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	3.83	95.8	(72.00 - 117.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	4.25	106.2	(71.00 - 116.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	4.39	109.7	(71.00 - 125.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	4.48	112.0	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MS	1,1-Dichloroethylene	4	4.26	106.5	(70.00 - 130.00)	
MSD	1,1-Dichloroethylene	4	4.54	113.5	(70.00 - 130.00)	6.4
LCS1	1,1-Dichloropropene	4	4.17	104.2	(70.00 - 130.00)	
MBLK	1,1-Dichloropropene	ND				
LCS1	1,2,3-Trichlorobenzene	4	4.33	108.2	(70.00 - 130.00)	
MBLK	1,2,3-Trichlorobenzene	ND				
LCS1	1,2,3-Trichloropropane	4	3.90	97.5	(70.00 - 130.00)	
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	4	4.23	105.8	(76.00 - 114.00)	
MBLK	1,2,4-Trichlorobenzene	ND				

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

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Foster Wheeler Environmental Corp
(continued)

LCS1	1,2,4-Trimethylbenzene	4	3.94	98.5	(70.00 - 130.00)	
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	4	4.39	109.7	(70.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	4	4.20	105.0	(77.00 - 122.00)	
MBLK	1,2-Dichloropropane	ND				
LCS1	1,3,5-Trimethylbenzene	4	3.94	98.5	(70.00 - 130.00)	
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	4	4.33	108.2	(70.00 - 130.00)	
LCS1	1,3-Dichloropropane	8	8.74	109.2	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
LCS1	p-Dichlorobenzene (1,4-DCB)	4	3.86	96.5	(77.00 - 113.00)	
MBLK	p-Dichlorobenzene (1,4-DCB)	ND				
LCS1	2,2-Dichloropropane	4	4.43	110.8	(70.00 - 130.00)	
MBLK	2,2-Dichloropropane	ND				
LCS1	2-Butanone (MEK)	40	45.2	113.0	(70.00 - 130.00)	
MBLK	2-Butanone (MEK)	ND				
MBLK	2-Chloroethylvinylether	ND				
LCS1	o-Chlorotoluene	4	3.84	96.0	(70.00 - 130.00)	
MBLK	o-Chlorotoluene	ND				
LCS1	p-Chlorotoluene	4	3.88	97.0	(70.00 - 130.00)	
MBLK	p-Chlorotoluene	ND				
LCS1	4-Methyl-2-Pentanone (MIBK)	40	46.6	116.5	(70.00 - 130.00)	
MBLK	4-Methyl-2-Pentanone (MIBK)	ND				
MS	Spiked sample	Lab # 20	09130006		(0.00 - 0.00)	
LCS1	Benzene	4	4.32	108.0	(76.00 - 122.00)	
MBLK	Benzene	ND				
MS	Benzene	4	4.22	105.5	(70.00 - 130.00)	
MSD	Benzene	4	4.19	104.8	(70.00 - 130.00)	0.71
LCS1	Bromobenzene	4	3.89	97.2	(70.00 - 130.00)	
MBLK	Bromobenzene	ND				
LCS1	Bromomethane (Methyl Bromide)	2	2.33	116.5	(70.00 - 130.00)	
MBLK	Bromomethane (Methyl Bromide)	ND				
LCS1	cis-1,2-Dichloroethylene	4	4.25	106.2	(75.00 - 124.00)	
MBLK	cis-1,2-Dichloroethylene	ND				
LCS1	Chlorobenzene	4	4.36	109.0	(70.00 - 117.00)	

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Foster Wheeler Environmental Corp
(continued)

MBLK	Chlorobenzene	ND				
MS	Chlorobenzene	4	4.21	105.2	(70.00 - 130.00)	
MSD	Chlorobenzene	4	4.22	105.5	(70.00 - 130.00)	0.24
LCS1	Carbon Tetrachloride	4	4.31	107.7	(70.00 - 130.00)	
MBLK	Carbon Tetrachloride	ND				
MBLK	cis-1,3-Dichloropropene	ND				
LCS1	Bromoform	4	4.19	104.8	(70.00 - 130.00)	
MBLK	Bromoform	ND				
LCS1	Chloroform (Trichloromethane)	4	4.29	107.2	(74.00 - 124.00)	
MBLK	Chloroform (Trichloromethane)	ND				
LCS1	Bromochloromethane	4	4.28	107.0	(70.00 - 130.00)	
MBLK	Bromochloromethane	ND				
LCS1	Chloroethane	2	1.92	96.0	(70.00 - 130.00)	
MBLK	Chloroethane	ND				
LCS1	Chloromethane(Methyl Chloride)	2	1.66	83.0	(70.00 - 130.00)	
MBLK	Chloromethane(Methyl Chloride)	ND				
LCS1	Chlorodibromomethane	4	4.46	111.5	(70.00 - 130.00)	
MBLK	Chlorodibromomethane	ND				
LCS1	Dibromomethane	4	4.40	110.0	(70.00 - 130.00)	
MBLK	Dibromomethane	ND				
LCS1	Bromodichloromethane	4	4.30	107.5	(70.00 - 116.00)	
MBLK	Bromodichloromethane	ND				
LCS1	Dichloromethane	4	4.60	115.0	(70.00 - 130.00)	
MBLK	Dichloromethane	ND				
LCS1	Ethyl benzene	4	4.44	111.0	(70.00 - 130.00)	
MBLK	Ethyl benzene	ND				
LCS1	Dichlorodifluoromethane	2	1.53	76.5	(70.00 - 130.00)	
MBLK	Dichlorodifluoromethane	ND				
LCS1	Fluorotrichloromethane-Freon11	2	2.02	101.0	(71.00 - 118.00)	
MBLK	Fluorotrichloromethane-Freon11	ND				
LCS1	Hexachlorobutadiene	4	3.91	97.8	(70.00 - 130.00)	
MBLK	Hexachlorobutadiene	ND				
LCS1	Isopropylbenzene	4	3.88	97.0	(70.00 - 130.00)	
MBLK	Isopropylbenzene	ND				
LCS1	m-Dichlorobenzene (1,3-DCB)	4	3.83	95.8	(70.00 - 130.00)	
MBLK	m-Dichlorobenzene (1,3-DCB)	ND				

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(continued)

LCS1	m,p-Xylenes	8	8.60	107.5	(74.00 - 116.00)	
MBLK	m,p-Xylenes	ND				
LCS1	Naphthalene	4	4.18	104.5	(70.00 - 130.00)	
MBLK	Naphthalene	ND				
LCS1	n-Butylbenzene	4	4.23	105.8	(70.00 - 130.00)	
MBLK	n-Butylbenzene	ND				
LCS1	n-Propylbenzene	4	3.92	98.0	(70.00 - 130.00)	
MBLK	n-Propylbenzene	ND				
LCS1	o-Xylene	4	4.25	106.2	(72.00 - 118.00)	
MBLK	o-Xylene	ND				
LCS1	o-Dichlorobenzene (1,2-DCB)	4	4.08	102.0	(70.00 - 130.00)	
MBLK	o-Dichlorobenzene (1,2-DCB)	ND				
LCS1	Tetrachloroethylene (PCE)	4	4.38	109.5	(71.00 - 115.00)	
MBLK	Tetrachloroethylene (PCE)	ND				
LCS1	p-Isopropyltoluene	4	3.78	94.5	(70.00 - 130.00)	
MBLK	p-Isopropyltoluene	ND				
LCS1	sec-Butylbenzene	4	3.85	96.2	(70.00 - 130.00)	
MBLK	sec-Butylbenzene	ND				
LCS1	Styrene	4	4.43	110.8	(70.00 - 130.00)	
MBLK	Styrene	ND				
LCS1	1,2-dichloroethane-d4	100	106	106.0	(80.00 - 127.00)	
MBLK	1,2-dichloroethane-d4	100				
MS	1,2-dichloroethane-d4	100	103	103.0	(80.00 - 127.00)	
MSD	1,2-dichloroethane-d4	100	91	91.0	(80.00 - 127.00)	12
LCS1	Toluene-d8	100	101	101.0	(91.00 - 107.00)	
MBLK	Toluene-d8	100				
MS	Toluene-d8	100	101	101.0	(91.00 - 107.00)	
MSD	Toluene-d8	100	97	97.0	(91.00 - 107.00)	4.0
LCS1	4-Bromofluorobenzene	100	91	91.0	(86.00 - 115.00)	
MBLK	4-Bromofluorobenzene	100				
MS	4-Bromofluorobenzene	100	93	93.0	(86.00 - 115.00)	
MSD	4-Bromofluorobenzene	100	97	97.0	(86.00 - 115.00)	4.2
LCS1	trans-1,2-Dichloroethylene	4	4.47	111.8	(70.00 - 130.00)	
MBLK	trans-1,2-Dichloroethylene	ND				
LCS1	tert-Butylbenzene	4	3.81	95.2	(70.00 - 130.00)	
MBLK	tert-Butylbenzene	ND				

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Laboratory
QC Report
#69880

Foster Wheeler Environmental Corp
(continued)

LCS1	Trichloroethylene (TCE)	4	4.13	103.2	(72.00 - 117.00)	
MBLK	Trichloroethylene (TCE)	ND				
MS	Trichloroethylene (TCE)	4	4.24	106.0	(70.00 - 130.00)	
MSD	Trichloroethylene (TCE)	4	4.37	109.2	(70.00 - 130.00)	3.0
LCS1	Trichlorotrifluoroethane(Freon	2	2.12	106.0	(70.00 - 130.00)	
MBLK	Trichlorotrifluoroethane(Freon	ND				
MBLK	trans-1,3-Dichloropropene	ND				
LCS1	Toluene	4	4.39	109.7	(74.00 - 117.00)	
MBLK	Toluene	ND				
MS	Toluene	4	4.37	109.2	(70.00 - 130.00)	
MSD	Toluene	4	4.31	107.7	(70.00 - 130.00)	1.4
LCS1	Vinyl chloride (VC)	2	2.09	104.5	(70.00 - 130.00)	
MBLK	Vinyl chloride (VC)	ND				

QC Batch #124400 Hexavalent chromium (Cr VI)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Hexavalent chromium (Cr VI)	0.050	0.049	98.0	(78.00 - 118.00)	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.049	98.0	(78.00 - 118.00)	0.00
MBLK	Hexavalent chromium (Cr VI)	ND				
MS--2009150007	Hexavalent chromium (Cr VI)	0.050	0.051	102.0	(80.00 - 120.00)	
MSD--2009150007	Hexavalent chromium (Cr VI)	0.050	0.052	104.0	(80.00 - 120.00)	

QC Batch #125131 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 20	09130006		(0.00 - 0.00)	
LCS1	Chromium, Total, ICAP/MS	100	95	95.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	98	98.0	(85.00 - 115.00)	3.1
MBLK	Chromium, Total, ICAP/MS	ND				
MS	Chromium, Total, ICAP/MS	100	92	92.0	(77.00 - 119.00)	
MSD	Chromium, Total, ICAP/MS	100	93	93.0	(77.00 - 119.00)	1.1

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MONTGOMERY WATSON LABORATORIES

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Quality Environmental Analysis

October 9, 2000

Attention: Mark Cutler
Foster Wheeler Environmental Corp
1940 E Deere St, Ste 200
Santa Ana, CA 92705

Report # 69955 (MW-003-077, MW-003-078, MW-003-029, MW-003-030, MW-003-031, MW-003-032)

Sampled: 09/18/00

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)
(EPA 524.2) QC batch 124545 analyzed 9/19/00: The LCS for 1,2,4-Trichlorobenzene recovered above internal QC limits. The recovery is within method limits. The data is reported without qualification.

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

Method blanks with compounds detected:
None

Comments:
Carbon Tetrachloride was detected in MW-003-030
Chloroform was detected in MW-003-030, -031
Tetrachloroethylene was detected in MW-003-030
Trichloroethylene was detected in MW-003-030, -031
Perchlorate was detected in MW-003-030

TIC'S:
None

Method Variation:
TIC's are reported only if the final result is >0.5 ug/L.

Additional Comments:
None

Sincerely

Debbie Frank
Project Manager

CC: Judy Novelly (JPL)

Laboratory
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Southwest Service Center
4625 S. Wendler Drive - Suite 111
Tempe, Arizona 85282
Tel: 602 748 1448
Fax: 602 748 1450

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 303
Irvine, California 92606
Tel: 949 222 1845
Fax: 949 222 1849

NUM 1706

69955

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

PROJECT: JPL

OFS NO.: 1572-0316

PROJECT ADDRESS: 4800 Oakgrove Dr. Pasadena CA

SAMPLER (Name): Tania Tuepyo-Keyler

SAMPLER (Signature): [illegible]

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

ANALYSES REQUIRED

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL: WATER	SOIL	OTHER (Describe)	VOCs	Cr+6	Cr	ClO4	QC for Cr					
MW-003-077	0850	9/18/00	3	40ml	X			X									
MW-003-078	0900		6	3x40ml 3x125ml	X			X	X	X	X						
MW-003-079	0935		6	3x40ml 1x125ml	X			X			X						
MW-003-030	1100		6	3x40ml 1x125ml	X			X	X	X	X						
MW-003-031	1405		6	3x40 1x125ml	X			X	X	X	X						
MW-003-032	1505		6	3x40ml 1x125ml	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)
		Nancy Rodriguez			
COMPANY	TIME	COMPANY FWEC 1/18/00	COMPANY	TIME	COMPANY

F-2

MONTGOMERY WATSON COOLER RECEIPT FORM

PROJECT: ENSERCH DATE RECEIVED: 9-18-00

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

A. PRELIMINARY EXAMINATION
Date Cooler opened: 9-18-00
By (print) Nancy Rodriguez (sign) [signature]

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

2. Were custody seals on outside of cooler? **Yes** No
   If yes, how many and where: 2 on lid.
   If yes, enter the following: seal date: 9-18-00 seal name: T IK.

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

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

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

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

7. Was project identifiable from custody papers? **Yes** No

8. Have designated person(s) initial and acknowledge receipt: NR date: 9-18-00

B. LOGIN PHASE
Date samples were logged in: 9-18-00
By (print) M. DE MESA (sign) [signature]

9. Describe packing: _____

10. If required, was enough ice used? Temp 8°C **Yes** No REG LCS

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

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

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

14. Did all bottle labels agree with custody papers?* **Yes** No

15. Were correct containers used for the analytes?* **Yes** No

16. Were correct preservatives used when required?* pH noted____ **Yes** No

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

18. Bubbles absent in VOA vials?* **Yes** No

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

* list deviations from requirements by sample ID on the COC.

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Laboratory Report

for

Foster Wheeler Environmental Corp
1940 E Deere St, Ste 200

Santa Ana, CA 92705

Santa Ana , CA 92705

Attention: Mark Cutler
Fax: 949 756-7560

DATE OF ISSUE
OCT 0 6 2000
MONTGOMERY WATSON LABS

DEB* Debbie Frank
Project Manager

Report#: 69955
JPL

Laboratory certifies that the test results meet all **QA/QC** requirements unless noted in the Comments section or the Case Narrative. Following the cover page are Comments,QC Report,QC Summary,Data Report, totaling 19 page[s].

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Laboratory
Data Report
#69955

Foster Wheeler Environmental Corp
Mark Cutler
1940 E Deere St, Ste 200
Santa Ana, CA 92705
Santa Ana , CA 92705

Samples Received
09/18/00

MW-003-077 (2009180283) Sampled on 09/18/00 08:50

Regulated VOCs plus Lists 1&3

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
09/19/00	12:00	124545	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
09/19/00	12:00	124545	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
09/19/00	12:00	124545	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
09/19/00	12:00	124545	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
09/19/00	12:00	124545	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
09/19/00	12:00	124545	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
09/19/00	12:00	124545	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
09/19/00	12:00	124545	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
09/19/00	12:00	124545	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
09/19/00	12:00	124545	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
09/19/00	12:00	124545	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
09/19/00	12:00	124545	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
09/19/00	12:00	124545	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
09/19/00	12:00	124545	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
09/19/00	12:00	124545	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
09/19/00	12:00	124545	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
09/19/00	12:00	124545	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
09/19/00	12:00	124545	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
09/19/00	12:00	124545	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
09/19/00	12:00	124545	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
09/19/00	12:00	124545	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
09/19/00	12:00	124545	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
09/19/00	12:00	124545	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
09/19/00	12:00	124545	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
09/19/00	12:00	124545	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
09/19/00	12:00	124545	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
09/19/00	12:00	124545	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
09/19/00	12:00	124545	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
09/19/00	12:00	124545	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Foster Wheeler Environmental Corp
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	09/19/00 12:00	124545	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(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	93	% Rec		
			(Surrogate)	4-Bromofluorobenzene	99	% Rec		
			(Surrogate)	Toluene-d8	94	% Rec		

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Foster Wheeler Environmental Corp
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-003-078 (2009180284) Sampled on 09/18/00 09:00								
	09/22/00 12:00	124142	(CADHS/EPA314)	Perchlorate	ND	ug/l	4.0	1
10/04/00	10/05/00 12:00	125131	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	09/18/00 05:56	124216	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
Regulated VOCs plus Lists 1&3								
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Foster Wheeler Environmental Corp
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	09/19/00 12:00	124545	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(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	101	% Rec		
			(Surrogate)	4-Bromofluorobenzene	99	% Rec		
			(Surrogate)	Toluene-d8	103	% Rec		

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Foster Wheeler Environmental Corp
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-003-029 (2009180285) Sampled on 09/18/00 09:35								
	09/22/00 12:00	124142	(CADHS/EPA314)	Perchlorate	ND	ug/l	4.0	1
Regulated VOCs plus Lists 1&3								
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1

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Foster Wheeler Environmental Corp
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	09/19/00 12:00	124545	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(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	97	% Rec		
			(Surrogate)	4-Bromofluorobenzene	98	% Rec		
			(Surrogate)	Toluene-d8	94	% Rec		

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Foster Wheeler Environmental Corp
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-003-030 (2009180286) Sampled on 09/18/00 11:00								
	09/22/00 12:00	124142	(CADHS/EPA314)	Perchlorate	25	ug/l	4.0	1
10/04/00	10/05/00 12:00	125131	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	09/18/00 05:56	124216	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
Regulated VOCs plus Lists 1&3								
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Carbon Tetrachloride	4.5	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Foster Wheeler Environmental Corp
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	09/19/00 12:00	124545	(ML/EPA 524.2)	Chloroform (Trichloromethane)	0.9	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	2.4	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Trichloroethylene (TCE)	1.3	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	NONE DETECTED	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	100	% Rec		
			(Surrogate)	4-Bromofluorobenzene	96	% Rec		
			(Surrogate)	Toluene-d8	93	% Rec		

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Foster Wheeler Environmental Corp
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-003-031 (2009180287) Sampled on 09/18/00 02:15								
	09/22/00 12:00	124142	(CADHS/EPA314)	Perchlorate	ND	ug/l	4.0	1
10/04/00	10/05/00 12:00	125131	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	09/18/00 05:56	124216	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
				Regulated VOCs plus Lists 1&3				
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Foster Wheeler Environmental Corp
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	09/19/00 12:00	124545	(ML/EPA 524.2)	Chloroform (Trichloromethane)	2.8	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Trichloroethylene (TCE)	0.7	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(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	93	% Rec		
			(Surrogate)	4-Bromofluorobenzene	99	% Rec		
			(Surrogate)	Toluene-d8	94	% Rec		

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Foster Wheeler Environmental Corp
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-003-032 (2009180288) Sampled on 09/18/00 03:03								
	09/22/00 12:00	124142	(CADHS/EPA314)	Perchlorate	ND	ug/l	4.0	1
10/04/00	10/05/00 12:00	125131	(EPA/ML 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	09/18/00 05:56	124216	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
Regulated VOCs plus Lists 1&3								
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Foster Wheeler Environmental Corp
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	09/19/00 12:00	124545	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	09/19/00 12:00	124545	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	NONE DETECTED	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	100	% Rec		
			(Surrogate)	4-Bromofluorobenzene	100	% Rec		
			(Surrogate)	Toluene-d8	98	% Rec		

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Laboratory
QC Summary
#69955

Foster Wheeler Environmental Corp

QC Batch #124142 - Perchlorate **Analysis Date: 09/22/2000**

2009180284	MW-003-078
2009180285	MW-003-029
2009180286	MW-003-030
2009180287	MW-003-031
2009180288	MW-003-032

QC Batch #124216 - Hexavalent chromium (Cr VI) **Analysis Date: 09/18/2000**

2009180284	MW-003-078
2009180286	MW-003-030
2009180287	MW-003-031
2009180288	MW-003-032

QC Batch #124545 - Regulated VOCs plus Lists 1&3 **Analysis Date: 09/19/2000**

2009180283	MW-003-077
2009180284	MW-003-078
2009180285	MW-003-029
2009180286	MW-003-030
2009180287	MW-003-031
2009180288	MW-003-032

QC Batch #125131 - Chromium, Total, ICAP/MS **Analysis Date: 10/05/2000**

2009180284	MW-003-078
2009180286	MW-003-030
2009180287	MW-003-031
2009180288	MW-003-032

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Report
Comments
#69955

(QC batch#: 124545)
Test: 1,2,4-Trichlorobenzene
QC Type: LCS1
Within method QC limit of 70 to 130%

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Laboratory
QC Report
#69955

Foster Wheeler Environmental Corp

QC Batch #124142 Perchlorate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 20	09130002		(0.00 - 0.00)	
LCS1	Perchlorate	25.0	25.3	101.2	(90.00 - 110.00)	
LCS2	Perchlorate	25.0	25.1	100.4	(90.00 - 110.00)	0.79
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	22.2	111.0	(75.00 - 125.00)	
MSD	Perchlorate	20.0	21.0	105.0	(75.00 - 125.00)	5.6

QC Batch #124216 Hexavalent chromium (Cr VI)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Hexavalent chromium (Cr VI)	0.050	0.0498	99.6	(78.00 - 118.00)	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.0493	98.6	(78.00 - 118.00)	1.0
MBLK	Hexavalent chromium (Cr VI)	ND				
MS--2009180288	Hexavalent chromium (Cr VI)	0.050	0.0493	98.6	(80.00 - 120.00)	
MSD--2009180288	Hexavalent chromium (Cr VI)	0.050	0.0488	97.6	(80.00 - 120.00)	

QC Batch #124545 Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	1,1,1,2-Tetrachloroethane	4	4.25	106.2	(70.00 - 130.00)	
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	4	4.24	106.0	(76.00 - 116.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	4.34	108.5	(72.00 - 117.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	4.38	109.5	(71.00 - 116.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	4.30	107.5	(71.00 - 125.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	4.03	100.8	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				

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

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(continued)

MS	1,1-Dichloroethylene	4	4.45	111.2	(70.00 - 130.00)	
MSD	1,1-Dichloroethylene	4	4.30	107.5	(70.00 - 130.00)	3.4
LCS1	1,1-Dichloropropene	4	3.97	99.2	(70.00 - 130.00)	
MBLK	1,1-Dichloropropene	ND				
LCS1	1,2,3-Trichlorobenzene	4	4.73	118.3	(70.00 - 130.00)	
MBLK	1,2,3-Trichlorobenzene	ND				
LCS1	1,2,3-Trichloropropane	4	4.49	112.2	(70.00 - 130.00)	
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	4	4.67	116.8	(76.00 - 114.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
LCS1	1,2,4-Trimethylbenzene	4	4.33	108.2	(70.00 - 130.00)	
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	4	4.43	110.8	(70.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	4	4.24	106.0	(77.00 - 122.00)	
MBLK	1,2-Dichloropropane	ND				
LCS1	1,3,5-Trimethylbenzene	4	4.33	108.2	(70.00 - 130.00)	
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	4	4.37	109.2	(70.00 - 130.00)	
LCS1	1,3-Dichloropropane	8	8.74	109.2	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
LCS1	p-Dichlorobenzene (1,4-DCB)	4	4.34	108.5	(77.00 - 113.00)	
MBLK	p-Dichlorobenzene (1,4-DCB)	ND				
LCS1	2,2-Dichloropropane	4	4.24	106.0	(70.00 - 130.00)	
MBLK	2,2-Dichloropropane	ND				
LCS1	2-Butanone (MEK)	40	42.8	107.0	(70.00 - 130.00)	
MBLK	2-Butanone (MEK)	ND				
LCS1	o-Chlorotoluene	4	4.32	108.0	(70.00 - 130.00)	
MBLK	o-Chlorotoluene	ND				
LCS1	p-Chlorotoluene	4	4.28	107.0	(70.00 - 130.00)	
MBLK	p-Chlorotoluene	ND				
LCS1	4-Methyl-2-Pentanone (MIBK)	40	46.4	116.0	(70.00 - 130.00)	
MBLK	4-Methyl-2-Pentanone (MIBK)	ND				
MS	Spiked sample	Lab # 20	09180311		(0.00 - 0.00)	
LCS1	Benzene	4	4.35	108.7	(76.00 - 122.00)	
MBLK	Benzene	ND				

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(continued)

MS	Benzene	4	4.42	110.5	(70.00 - 130.00)	
MSD	Benzene	4	4.44	111.0	(70.00 - 130.00)	0.45
LCS1	Bromobenzene	4	4.39	109.7	(70.00 - 130.00)	
MBLK	Bromobenzene	ND				
LCS1	Bromomethane (Methyl Bromide)	2	2.42	121.0	(70.00 - 130.00)	
MBLK	Bromomethane (Methyl Bromide)	ND				
LCS1	cis-1,2-Dichloroethylene	4	4.16	104.0	(75.00 - 124.00)	
MBLK	cis-1,2-Dichloroethylene	ND				
LCS1	Chlorobenzene	4	4.32	108.0	(70.00 - 117.00)	
MBLK	Chlorobenzene	ND				
MS	Chlorobenzene	4	4.36	109.0	(70.00 - 130.00)	
MSD	Chlorobenzene	4	4.48	112.0	(70.00 - 130.00)	2.7
LCS1	Carbon Tetrachloride	4	4.19	104.8	(70.00 - 130.00)	
MBLK	Carbon Tetrachloride	ND				
MBLK	cis-1,3-Dichloropropene	ND				
LCS1	Bromoform	4	4.58	114.5	(70.00 - 130.00)	
MBLK	Bromoform	ND				
LCS1	Chloroform (Trichloromethane)	4	4.20	105.0	(74.00 - 124.00)	
MBLK	Chloroform (Trichloromethane)	ND				
LCS1	Bromochloromethane	4	4.28	107.0	(70.00 - 130.00)	
MBLK	Bromochloromethane	ND				
LCS1	Chloroethane	2	2.02	101.0	(70.00 - 130.00)	
MBLK	Chloroethane	ND				
LCS1	Chloromethane(Methyl Chloride)	2	1.72	86.0	(70.00 - 130.00)	
MBLK	Chloromethane(Methyl Chloride)	ND				
LCS1	Chlorodibromomethane	4	4.50	112.5	(70.00 - 130.00)	
MBLK	Chlorodibromomethane	ND				
LCS1	Dibromomethane	4	4.44	111.0	(70.00 - 130.00)	
MBLK	Dibromomethane	ND				
LCS1	Bromodichloromethane	4	4.27	106.7	(70.00 - 116.00)	
MBLK	Bromodichloromethane	ND				
LCS1	Dichloromethane	4	3.96	99.0	(70.00 - 130.00)	
MBLK	Dichloromethane	ND				
LCS1	Ethyl benzene	4	4.33	108.2	(70.00 - 130.00)	
MBLK	Ethyl benzene	ND				
LCS1	Dichlorodifluoromethane	2	1.52	76.0	(70.00 - 130.00)	

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(continued)

MBLK	Dichlorodifluoromethane	ND				
LCS1	Fluorotrichloromethane-Freon11	2	1.76	88.0	(71.00 - 118.00)	
MBLK	Fluorotrichloromethane-Freon11	ND				
LCS1	Hexachlorobutadiene	4	4.10	102.5	(70.00 - 130.00)	
MBLK	Hexachlorobutadiene	ND				
LCS1	Isopropylbenzene	4	4.23	105.8	(70.00 - 130.00)	
MBLK	Isopropylbenzene	ND				
LCS1	m-Dichlorobenzene (1,3-DCB)	4	4.30	107.5	(70.00 - 130.00)	
MBLK	m-Dichlorobenzene (1,3-DCB)	ND				
LCS1	m,p-Xylenes	8	8.60	107.5	(74.00 - 116.00)	
MBLK	m,p-Xylenes	ND				
LCS1	Naphthalene	4	4.75	118.8	(70.00 - 130.00)	
MBLK	Naphthalene	ND				
LCS1	n-Butylbenzene	4	4.53	113.2	(70.00 - 130.00)	
MBLK	n-Butylbenzene	ND				
LCS1	n-Propylbenzene	4	4.35	108.7	(70.00 - 130.00)	
MBLK	n-Propylbenzene	ND				
LCS1	o-Xylene	4	4.25	106.2	(72.00 - 118.00)	
MBLK	o-Xylene	ND				
LCS1	o-Dichlorobenzene (1,2-DCB)	4	4.57	114.2	(70.00 - 130.00)	
MBLK	o-Dichlorobenzene (1,2-DCB)	ND				
LCS1	Tetrachloroethylene (PCE)	4	4.28	107.0	(71.00 - 115.00)	
MBLK	Tetrachloroethylene (PCE)	ND				
LCS1	p-Isopropyltoluene	4	4.11	102.8	(70.00 - 130.00)	
MBLK	p-Isopropyltoluene	ND				
LCS1	sec-Butylbenzene	4	4.24	106.0	(70.00 - 130.00)	
MBLK	sec-Butylbenzene	ND				
LCS1	Styrene	4	4.51	112.8	(70.00 - 130.00)	
MBLK	Styrene	ND				
LCS1	1,2-dichloroethane-d4	100	94	94.0	(80.00 - 127.00)	
MBLK	1,2-dichloroethane-d4	100	95	95.0		
MS	1,2-dichloroethane-d4	100	96	96.0	(80.00 - 127.00)	
MSD	1,2-dichloroethane-d4	100	99	99.0	(80.00 - 127.00)	3.1
LCS1	Toluene-d8	100	102	102.0	(91.00 - 107.00)	
MBLK	Toluene-d8	100	101	101.0		
MS	Toluene-d8	100	99	99.0	(91.00 - 107.00)	

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(continued)

MSD	Toluene-d8	100	102	102.0	(91.00 - 107.00)	3.0
LCS1	4-Bromofluorobenzene	100	97	97.0	(86.00 - 115.00)	
MBLK	4-Bromofluorobenzene	100	98	98.0		
MS	4-Bromofluorobenzene	100	96	96.0	(86.00 - 115.00)	
MSD	4-Bromofluorobenzene	100	97	97.0	(86.00 - 115.00)	1.0
LCS1	trans-1,2-Dichloroethylene	4	4.50	112.5	(70.00 - 130.00)	
MBLK	trans-1,2-Dichloroethylene	ND				
LCS1	tert-Butylbenzene	4	4.15	103.8	(70.00 - 130.00)	
MBLK	tert-Butylbenzene	ND				
LCS1	Trichloroethylene (TCE)	4	4.10	102.5	(72.00 - 117.00)	
MBLK	Trichloroethylene (TCE)	ND				
MS	Trichloroethylene (TCE)	4	4.09	102.2	(70.00 - 130.00)	
MSD	Trichloroethylene (TCE)	4	4.13	103.2	(70.00 - 130.00)	0.97
LCS1	Trichlorotrifluoroethane(Freon	2	2.08	104.0	(70.00 - 130.00)	
MBLK	Trichlorotrifluoroethane(Freon	ND				
MBLK	trans-1,3-Dichloropropene	ND				
LCS1	Toluene	4	4.36	109.0	(74.00 - 117.00)	
MBLK	Toluene	ND				
MS	Toluene	4	4.48	112.0	(70.00 - 130.00)	
MSD	Toluene	4	4.52	113.0	(70.00 - 130.00)	0.89
LCS1	Vinyl chloride (VC)	2	2.02	101.0	(70.00 - 130.00)	
MBLK	Vinyl chloride (VC)	ND				

QC Batch #125131 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 20	09130006		(0.00 - 0.00)	
LCS1	Chromium, Total, ICAP/MS	100	95	95.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	98	98.0	(85.00 - 115.00)	3.1
MBLK	Chromium, Total, ICAP/MS	ND				
MS	Chromium, Total, ICAP/MS	100	92	92.0	(77.00 - 119.00)	
MSD	Chromium, Total, ICAP/MS	100	93	93.0	(77.00 - 119.00)	1.1

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Quality Environmental Analysis

October 6, 2000

Attention: Mark Cutler
Foster Wheeler Environmental Corp
1940 E Deere St, Ste 200
Santa Ana, CA 92705

Report # 70020 (MW-003-079, MW-003-080, MW-003-024, MW-003-025, MW-003-026, MW-003-027, MW-003-028)

Sampled: 09/19/00

Dear Mark,

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

Non-conformance (LCS, MS/MSD, Surrogates, and Holding Times)
None
Samples requiring dilution (with increased MRL's):
None
Method blanks with compounds detected:
None
Comments:
Tetrachloroethylene was detected in MW-003-024, -026
Trichloroethylene was detected in MW-003-024, -027
Chloroform was detected in MW-003-025
Perchlorate was detected in MW-003-026
TIC'S:
None
Method Variation:
TIC's are reported only if the final result is >0.5 ug/L.
Additional Comments:
None

Sincerely

Debbie Frank
Project Manager

CC: Judy Novelly (JPL)

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Northern California Service Center
1340 Treat Boulevard - Suite 300
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Fax: 925 945 1760

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

NUMBER 1121

70020

FOSTER WHEELER ENVIRONMENTAL CORPORATION

CHAIN OF CUSTODY FORM REQUEST FOR ANALYSIS

PAGE 1 OF 1

PROJECT: JPL GW Monitoring

OFS NO.: 1.77.0311

PROJECT ADDRESS: 4800 Oak Grove Dr Pasadena CA

SAMPLER (Name): Tania Turner Kinney

SAMPLER (Signature): [signature]

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

ANALYSES REQUIRED

SAMPLE NUMBER	TIME COLLECTED	DATE COLLECTED	NUMBER OF CONTAINERS	CONTAINER SIZE(S)	SAMPLE MATERIAL: WATER	SOIL	OTHER (Describe)	VOCs	ClO_4^-	MS for VOCs	MSD for VOCs
MW-003-079	0945	9/19/00	3	40ml	X			X			
MW-003-080	0955		4	3x40ml 1x125ml	X			X	X		
MW-003-029	1000		4	3x40ml 1x125ml	X			X	X		
MW-003-025	1105		4	3x40ml 1x125ml	X			X	X		
MW-003-026	1200		4	3x40ml 1x125ml	X			X	X		
MW-003-026MS	1200		3	40ml	X					X	
MW-003-026MSD	1200		3	40ml	X						X
MW-003-027	1235		4	3x40ml 1x125ml	X			X	X		
MW-003-028	1325		4	3x40ml 1x125ml	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]	9-19-00	[signature]			
COMPANY: Tetra Tech	TIME: 1630	COMPANY: MWL	COMPANY	TIME	COMPANY

F-2

MONTGOMERY WATSON COOLER RECEIPT FORM

PROJECT: ENSERCH DATE RECEIVED: 9-19-00

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

A. PRELIMINARY EXAMINATION
Date Cooler opened: 9-19-00
By (print) Nancy Rodriguez (sign) [illegible]

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

2. Were custody seals on outside of cooler? **(Yes)** No
   If yes, how many and where: (2) on lid
   If yes, enter the following: seal date: 9-19-00 seal name: SAD

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

4. Were custody papers sealed in bag and taped to lid? Yes **(No)**

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

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

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

8. Have designated person(s) initial and acknowledge receipt: MLD date: 9-19-0_

B. LOGIN PHASE
Date samples were logged in: 9-19-00
By (print) M. De Mesa (sign) [illegible]

9. Describe packing: _____

10. If required, was enough ice used? Temp 8°C **(Yes)** No REG ICE

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

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

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

14. Did all bottle labels agree with custody papers?* **(Yes)** No

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

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

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

18. Bubbles absent in VOA vials?* **(Yes)** No

19. Was Client Services informed of problems? Yes No **(NA)**

* list deviations from requirements by sample ID on the COC.

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Laboratory Report

for

Foster Wheeler Environmental Corp
1940 E Deere St, Ste 200

Santa Ana, CA 92705

Santa Ana , CA 92705

Attention: Mark Cutler
Fax: 949 756-7560

DATE OF ISSUE
OCT 0 5 2000
MONTGOMERY WATSON LABS

DEB* Debbie Frank
Project Manager

Report#: 70020
JPL

Laboratory certifies that the test results meet all **QA/QC** requirements unless noted in the Comments section or the Case Narrative. Following the cover page are Comments,QC Report,QC Summary,Data Report, totaling 21 page[s].

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Laboratory
Data Report
#70020

Foster Wheeler Environmental Corp
Mark Cutler
1940 E Deere St, Ste 200
Santa Ana, CA 92705
Santa Ana , CA 92705

Samples Received
09/19/00

MW-003-079 (2009190158) Sampled on 09/19/00 09:45

Regulated VOCs plus Lists 1&3

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
09/20/00	12:00	124816	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
09/20/00	12:00	124816	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
09/20/00	12:00	124816	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
09/20/00	12:00	124816	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
09/20/00	12:00	124816	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
09/20/00	12:00	124816	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
09/20/00	12:00	124816	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
09/20/00	12:00	124816	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
09/20/00	12:00	124816	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
09/20/00	12:00	124816	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
09/20/00	12:00	124816	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
09/20/00	12:00	124816	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
09/20/00	12:00	124816	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
09/20/00	12:00	124816	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
09/20/00	12:00	124816	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
09/20/00	12:00	124816	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
09/20/00	12:00	124816	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
09/20/00	12:00	124816	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
09/20/00	12:00	124816	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
09/20/00	12:00	124816	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
09/20/00	12:00	124816	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
09/20/00	12:00	124816	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
09/20/00	12:00	124816	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
09/20/00	12:00	124816	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
09/20/00	12:00	124816	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
09/20/00	12:00	124816	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
09/20/00	12:00	124816	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
09/20/00	12:00	124816	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
09/20/00	12:00	124816	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Foster Wheeler Environmental Corp
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	09/20/00 12:00	124816	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	09/20/00 12:00	124816	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	09/20/00 12:00	124816	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	09/20/00 12:00	124816	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	09/20/00 12:00	124816	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	09/20/00 12:00	124816	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	09/20/00 12:00	124816	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	09/20/00 12:00	124816	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	09/20/00 12:00	124816	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	09/20/00 12:00	124816	(ML/E524.2/624)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	09/20/00 12:00	124816	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	09/20/00 12:00	124816	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	09/20/00 12:00	124816	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	09/20/00 12:00	124816	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	09/20/00 12:00	124816	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	09/20/00 12:00	124816	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	09/20/00 12:00	124816	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	09/20/00 12:00	124816	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	09/20/00 12:00	124816	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	09/20/00 12:00	124816	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	09/20/00 12:00	124816	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	09/20/00 12:00	124816	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	09/20/00 12:00	124816	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	09/20/00 12:00	124816	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	09/20/00 12:00	124816	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/20/00 12:00	124816	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	09/20/00 12:00	124816	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	09/20/00 12:00	124816	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	09/20/00 12:00	124816	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/20/00 12:00	124816	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	09/20/00 12:00	124816	(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	85	% Rec		
			(Surrogate)	4-Bromofluorobenzene	104	% Rec		
			(Surrogate)	Toluene-d8	96	% Rec		

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Laboratory
Data Report
#70020

Foster Wheeler Environmental Corp
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
MW-003-080 (2009190159) Sampled on 09/19/00 09:55								
	09/27/00 12:00	124584	(CADHS/EPA314)	Perchlorate	ND	ug/l	4.0	1
Regulated VOCs plus Lists 1&3								
	09/20/00 12:00	124816	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/20/00 12:00	124816	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	09/20/00 12:00	124816	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/20/00 12:00	124816	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	09/20/00 12:00	124816	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	09/20/00 12:00	124816	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	09/20/00 12:00	124816	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	09/20/00 12:00	124816	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	09/20/00 12:00	124816	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	09/20/00 12:00	124816	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	09/20/00 12:00	124816	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	09/20/00 12:00	124816	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	09/20/00 12:00	124816	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	09/20/00 12:00	124816	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	09/20/00 12:00	124816	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	09/20/00 12:00	124816	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	09/20/00 12:00	124816	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	09/20/00 12:00	124816	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	09/20/00 12:00	124816	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	09/20/00 12:00	124816	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	09/20/00 12:00	124816	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	09/20/00 12:00	124816	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	09/20/00 12:00	124816	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	09/20/00 12:00	124816	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	09/20/00 12:00	124816	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/20/00 12:00	124816	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	09/20/00 12:00	124816	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	09/20/00 12:00	124816	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/20/00 12:00	124816	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	09/20/00 12:00	124816	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	09/20/00 12:00	124816	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1