Previous

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-22 Depth: 245 Date: 10/15/97

Well Name: MW-22 Sampling Zone No.: SCREEN 1 Starting Time: 0820 Finishing Time: 1620

Technicians: J. BRENNER / T. CHOI

Water Level Inside MP Casing (Beginning of Session) 14.72 PSIA (End of Session) 14.31 PSIA

Run No.	Surface Function Checks					Position Sampler	Surface Collection Checks							Comments
	Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Deactivate Set Arm Locate Port	Water Level in MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level in MP (ft) Remove Tape	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	14.72	✓	0827	0833	✓	14.78	1.0	1ST RUN AT SCREEN; TURBIDITY = 34.7 NTU'S
2	✓	✓	✓	✓	✓	✓	14.19	✓	1504	1509	✓	14.35	1.0	2ND RUN – AFTER 3 PACKER VOLUMES PURGED; VOA'S, 1/8 METALS
3	✓	✓	✓	✓	✓	✓	14.25	✓	1525	1531	✓	14.33	1.0	3RD RUN 1/8 METALS; 1/4 ANIONS
4	✓	✓	✓	✓	✓	✓	14.21	✓	1545	1550	✓	14.31	1.0	4TH RUN; 3/4 ANIONS; Cr^{+6}, PERCHLOR FINAL PARAMETERS
5														
6														
7														
8														
9														
10														
11														
12														

Comments:

Total Volume: 4.0 L

F2

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: Depth: 329 Date: 10/13/97

Well Name: MW-22 Sampling Zone No.: SCREEN 2 Starting Time: 1040 Finishing Time:

Technicians J.BRENNER/T.BLANEY/T.CHOI

Water Level Inside MP Casing (Beginning of Session) 39.14 PSIA (End of Session) 39.11 PSIA

Run No.	Surface Function Checks					Position Sampler	Surface Collection Checks							Comments
	Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Deactivate Set Arm Locate Port	Water Level In MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level In MP (ft) Remove Tape	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	39.14	✓	1047	1050	✓	39.14	1.0	1ST RUN PRIOR SAMPLING: RINSE BOTTLES W/FORMATION WATER; INITIAL PARAMETERS
2	✓	✓	✓	✓	✓	✓	39.16	✓	1107	1110	✓	39.11	1.0	2nd RUN: ATTEMPTING TO REDUCE TURBIDITY NTU'S=13.2
3	✓	✓	✓	✓	✓	✓	39.08	✓	1129	1131	✓	39.11	1.0	3rd RUN: ATTEMPTING TO REDUCE TURBIDITY NTU'S = 16.27
4	✓	✓	✓	✓	✓	✓	39.13	✓	1304	1307	✓	39.12	1.0	4th RUN: ATTEMPTING TO REDUCE TURBIDITY NTU'S = 8.88
5	✓	✓	✓	✓	✓	✓	39.05	✓	1323	1326	✓	39.08	1.0	5th RUN: ATTEMPTING TO REDUCE TURBIDITY NTU'S = 7.90
6	✓	✓	✓	✓	✓	✓	39.04	✓	1345	—	—	—	—	COMMUNICATION FAILURE; BREAK OFF SHOE & BRING OUT TO RETOOL CABLEHEAD
7	✓	✓	✓	✓	✓	✓	39.06	✓	1535	1539	✓	39.11	1.0	7th RUN; ATTEMPTING TO REDUCE TURBIDITY NTU'S = 7.44
8	✓	✓	✓	✓	✓	✓	39.08	✓	1556	1559	✓	39.11	1.0	8th RUN: ATTEMPTING TO REDUCE TURBIDITY NTU'S = 7.39
9														
10														
11														
12														

Comments:

Total Volume: 7.0L

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FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: Depth: 329 Date: 10-14-97

Well Name: MW-22 Sampling Zone No.: SCREEN 2 Starting Time: 1132 Finishing Time: 1235

Technicians T. BLANEY / T. CHOI

Water Level Inside MP Casing (Beginning of Session) 38.86 PSIA (End of Session) 38.84 PSIA

Run No.	Surface Function Checks					Position Sampler	Surface Collection Checks							Comments
	Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Deactivate Set Arm Locate Port	Water Level In MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level In MP (ft) Remove Tape	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	38.86	✓	1140	1143	✓	38.88	1.0	1ST RUN PRIOR SAMPLING; RINSE BOTTLES W/FORMATION; INITIAL PARAMETERS
2	✓	✓	✓	✓	✓	✓	38.85	✓	1203	1205	✓	38.84	1.0	2ND RUN: SAMPLE MW-973-66 12 VOAS, METALS, ANIONS, MW-973-66 MS/MSD: 4 VOAS
3	✓	✓	✓	✓	✓	✓	38.85	✓	1224	1227	✓	38.84	1.0	3RD RUN: SAMPLE MW-973-66; Cr^{+6}, PERCALOR, FINAL PARAMETERS
4														
5														
6														
7														
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9														
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11														
12														

F-2

Comments:

Total Volume: 3.0 L

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: Depth: 389 Date: 10-13-97

Well Name: MW-22 Sampling Zone No.: SCREEN 3 Starting Time: 0830 Finishing Time: 0940

Technicians J. BRENNER/T. CHOI

Water Level Inside MP Casing (Beginning of Session) 65.20 PSIA (End of Session) 65.28 PSIA

Run No.	Surface Function Checks					Position Sampler	Surface Collection Checks							Comments
	Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Deactivate Set Arm Locate Port	Water Level in MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level in MP (ft) Remove Tape	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	65.20	✓	0838	0842	✓	65.24	1.0	1ST RUN PRIOR SAMPLING: RINSE BOTTLES W/ FORMATION WATER: INITIAL PARAMETERS
2	✓	✓	✓	✓	✓	✓	65.27	✓	0858	0905	✓	65.28	1.0	2ND RUN: SAMPLES MW-973-67: 2VOAS, METALS, ANIONS, ½ Cr^{+6}
3	✓	✓	✓	✓	✓	✓	65.25	✓	0923	0926	✓	65.28	1.0	3RD RUN:
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments:

Total Volume: 3.0 L

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FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: Depth: 467 Date: 10/9/97

Well Name: MW-22 Sampling Zone No.: 4 Starting Time: 1015 Finishing Time: 1120

Technicians T. Choi, T. Blaney

Water Level Inside MP Casing (Beginning of Session) 99.21 psia (End of Session) 99.18 psia

Run No.	Surface Function Checks					Position Sampler	Surface Collection Checks							Comments
	Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Deactivate Set Arm Locate Port	Water Level in MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level in MP (ft) Remove Tape	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	99.21	✓	1024	1027	✓	99.24	1	1st Run; NTU's = 2.74; Ready to Sample
2	✓	✓	✓	✓	✓	✓	99.18	✓	1046	1049	✓	99.21	1	Sample MW-973-68; VOA's, metals Anions, cr+6
3	✓	✓	✓	✓	✓	✓	99.16	✓	1108	1111	✓	99.18	1	Sample MW-973-68; ClO_4 + Final Parameters
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments:

Total Volume: 3.0L

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FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: Depth: 580 Date: 10/9/97

Well Name: MW-22 Sampling Zone No.: 5 Starting Time: 0810 Finishing Time: 1010

Technicians: T. Blaney, T. Chai

Water Level Inside MP Casing (Beginning of Session) 151.83 psia (End of Session) 151.81 psia

Run No.	Surface Function Checks: Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Position Sampler: Deactivate Set Arm Locate Port	Surface Collection Checks: Water Level In MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level In MP (ft) Remove Tape	Volume Retrieved (liters)	Comments
1	✓	✓	✓	✓	✓	✓	151.83	✓	0820	0822	✓	151.85	1	1ST RUN PRIOR SAMPLING: RINSE BOTTLES W/FORMATION WATER; INITIAL PARAMETERS
2	✓	✓	✓	✓	✓	✓	151.79	✓	0845	0847	✓	151.81	1	2ND Run; NTU's = 1034; Reducing TURBIDITY
3	✓	✓	✓	✓	✓	✓	151.79	✓	0909	0911	✓	151.81	1	3RD Run; NTU's = 4.4; Ready to Sample
4	✓	✓	✓	✓	✓	✓	151.79	✓	0934	0937	✓	151.81	1	Sample MW-973-69; VOAs, metals ANIONS, Cr+6
5	✓	✓	✓	✓	✓	✓	151.78	✓	1000	1002	✓	151.81	1	Sample MW-973-69; ClO_4 + Final Parameters
6														
7														
8														
9														
10														
11														
12														

Comments:

Total Volume: 5.0L

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FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: Depth: 174 Date: 10-16-97

Well Name: MW-23 Sampling Zone No.: SCREEN 1 Starting Time: 0804 Finishing Time: 1135

Technicians J. BRENNER / T. CHOI

Water Level Inside MP Casing (Beginning of Session) 14.25 PSIA (End of Session) 14.33 PSIA

Run No.	Surface Function Checks					Position Sampler	Surface Collection Checks							Comments
	Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Deactivate Set Arm Locate Port	Water Level In MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level In MP (ft) Remove Tape	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	26.96	✓	0808	*ABORTED RUN*				1ST RUN: PRIOR SAMPLING: RINSE BOTTLES W/FORMATION WATER; INITIAL PARAMETERS
2	✓	✓	✓	✓	✓	✓	14.25	✓	0947	0952	✓	14.31	1.0	1ST RUN; PRIOR TO SAMPLING; INITIAL PARAMETERS; NTU'S = 15.83
3	✓	✓	✓	✓	✓	✓	14.19	✓	1000	1006	✓	14.44	1.0	2ND RUN: ATTEMPTING TO REDUCE TURBIDITY NTU'S = 17.22
4	✓	✓	✓	✓	✓	✓	14.24	✓	1017	1022	✓	14.35	1.0	3RD RUN: CONTINUE ATTEMPTING TO REDUCE TURBIDITY; NTU'S = 14.72
5	✓	✓	✓	✓	✓	✓	14.22	✓	1041	1048	✓	14.36	1.0	4TH RUN: ATTEMPTING TO REDUCE TURBIDITY NTU'S = 13.69
6	✓	✓	✓	✓	✓	✓	14.18	✓	1100	1107	✓	14.33	1.0	5TH RUN: ATTEMPTING TO REDUCE TURBIDITY NTU'S = 13.00
7	✓	✓	✓	✓	✓	✓	14.19	✓	1118	1125	✓	14.33	1.0	6TH RUN: ATTEMPTING TO REDUCE TURBIDITY NTU'S = 13.24; WILL RETURN LATER
8														
9														
10														
11														
12														

Comments: * NEED TO BALL DOWN A 15 PSIA DIFFERENCE PRIOR SAMPLING

Total Volume: 6.0L

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FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: MW-23 Depth: 174 Date: 10/21/97

Well Name: MW-23 Sampling Zone No.: 1 Starting Time: 1505 Finishing Time: 1530

Technicians: T. CHOI / J. BRENNER

Water Level Inside MP Casing (Beginning of Session) 14.26 TS,A (End of Session) 14.21

Run No.	Surface Function Checks					Position Sampler	Surface Collection Checks							Comments
	Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Deactivate Set Arm Locate Port	Water Level In MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level In MP (ft) Remove Tape	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	14.26	✓	1510	1524	✓	14.21	1.0	1ST RUN AT SCREEN #1
2														CONTINUE TO HAVE TURBIDITY PROBLEMS; WILL RETURN TOMORROW AFTER PURGING
3														SCREEN
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments:

Total Volume: 1.0 L

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: ___ Depth: 174 Date: 10/22/97

Well Name: MW-23 Sampling Zone No.: 1 Starting Time: 1030 Finishing Time: 1115

Technicians: T. CHOI / J. BRENNER

Water Level Inside MP Casing (Beginning of Session) 14.15 PSIA (End of Session) 14.31 PSIA

Run No.	Surface Function Checks: Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Position Sampler: Deactivate Set Arm Locate Port	Surface Collection Checks: Water Level In MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level In MP (ft) Remove Tape	Volume Retrieved (liters)	Comments
1	✓	✓	✓	✓	✓	✓	14.15	✓	1025	1030	✓	14.18	1.0	1st RUN PRIOR SAMPLING: RINSE BOTTLES W/ FORMATION WATER
2	✓	✓	✓	✓	✓	✓	14.18	✓	1043	1049	✓	14.29	1.0	2nd RUN: SAMPLE MW-973-70: 2 VOA'S, Metals SAMPLE MW-973-70 MS/MSD ½ ANIONS
3	✓	✓	✓	✓	✓	✓	14.18	✓	1101	1106	✓	14.31	1.0	3rd RUN: SAMPLE MW-973-70: ½ ANIONS, Cr^{+6}, PERCHLOR, FINAL PARAMETERS
4														
5														
6														
7														
8														
9														
10														
11														
12														

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Comments: ___

Total Volume: 3.0L

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: Depth: 254 Date: 10-16-97

Well Name: MW-23 Sampling Zone No.: SCREEN 2 Starting Time: 1136 Finishing Time: 1412

Technicians J. BRENNER/T. CHOI

Water Level Inside MP Casing (Beginning of Session) 48.98 PSIA (End of Session) 48.73 PSIA

Run No.	Surface Function Checks					Position Sampler	Surface Collection Checks							Comments
	Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Deactivate Set Arm Locate Port	Water Level in MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level in MP (ft) Remove Tape	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	48.98	✓	1140	1145	✓	48.96	1.0	1st RUN PRIOR SAMPLING: RINSE BOTTLES W/ FORMATION WATER; INITIAL PARAMETERS; NTU'S=
2	✓	✓	✓	✓	✓	✓	48.92	✓	1157	1201	✓	48.95	1.0	2nd RUN: ATTEMPTING TO REDUCE TURBIDITY NTU'S = 10.61
3	✓	✓	✓	✓	✓	✓	48.92	✓	1215	1219	✓	48.94	1.0	3rd RUN: ATTEMPTING TO REDUCE TURBIDITY NTU'S = 8.95
4	✓	✓	✓	✓	✓	✓	48.92	✓	1234	1239	✓	48.89	1.0	4th RUN: ATTEMPTING TO REDUCE TURBIDITY NTU'S = 7.68
5	✓	✓	✓	✓	✓	✓	48.93	✓	1255	1258	✓	48.94	1.0	5th RUN: ATTEMPTING TO REDUCE TURBIDITY NTU'S = 6.48
6	✓	✓	✓	✓	✓	✓	48.89	✓	1317	1321	✓	48.88	1.0	6th RUN: ATTEMPTING TO REDUCE TURBIDITY NTU'S = 4.92
7	✓	✓	✓	✓	✓	✓	48.82	✓	1335	1339	✓	48.78	1.0	7th RUN: ~~ATTEMPTING TO REDUCE TURBIDITY NTU'S~~ SAMPLE MW-973-71
8	✓	✓	✓	✓	✓	✓	48.78	✓	1358	1401	✓	48.73	1.0	8th RUN: SAMPLE MW-973-71; Cr^{+6}, PERCHLORATE, FINAL PARAMETERS
9														
10														
11														
12														

Comments:

Total Volume: 8.0L

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: Depth: 319 Date: 10-21-97

Well Name: MW-23 Sampling Zone No.: SCREEN 3 Starting Time: 0755 Finishing Time: 0900

Technicians J. BRENNER/T. CAO

Water Level Inside MP Casing (Beginning of Session) 77.06 PSIA (End of Session) 77.06 PSIA

Run No.	Surface Function Checks					Position Sampler	Surface Collection Checks							Comments
	Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Deactivate Set Arm Locate Port	Water Level In MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level In MP (ft) Remove Tape	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	77.06	✓	0806	0810	✓	77.08	1.0	1st RUN PRIOR SAMPLING: RINSE BOTTLES W/FORMATION WATER; INITIAL PARAMETERS
2	✓	✓	✓	✓	✓	✓	77.07	✓	0826	0830	✓	77.09	1.0	2nd RUN: MW-973-72: 2 VOAS, METALS, ANIONS, PERCHLORATE
3	✓	✓	✓	✓	✓	✓	77.07	✓	0847	0850	✓	77.06	1.0	3rd RUN: MW-973-72: Cr^{+6} FINAL PARAMETERS
4														
5														
6														
7														
8														
9														
10														
11														
12														

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Comments:

Total Volume: 3.0L

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: Depth: 445 Date: 10/21/97

Well Name: MW-23 Sampling Zone No.: SCREEN 4 Starting Time: ~~0905~~ 1125 Finishing Time: 1355

Technicians J. BRENNER / T. CHOI

Water Level Inside MP Casing (Beginning of Session) 65.45 PSIA (End of Session) 64.36 PSIA

Run No.	Surface Function Checks					Position Sampler	Surface Collection Checks							Comments
	Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Deactivate Set Arm Locate Port	Water Level In MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level In MP (ft) Remove Tape	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	65.45	✓	1139	1141	✓	65.43	1.0	1st RUN PRIOR SAMPLING: RINSE BOTTLES W/ FORMATION WATER: INITIAL PARAMETERS
2	✓	✓	✓	✓	✓	✓	65.46	✓	1201	1204	✓	65.44	1.0	2nd RUN: ATTEMPTING TO REDUCE TURBIDITY NTU'S = 4.88
3	✓	✓	✓	✓	✓	✓	65.52	✓	1229	1232	✓	65.40	1.0	3rd RUN: SAMPLE MW-973-73: 2 VOA'S, 3/4 METALS (1 LOC)
4	✓	✓	✓	✓	✓	✓	65.46	✓	1304	1306	✓	65.44	1.0	4th RUN: SAMPLE MW-973-73: 1/4 METALS, ANIONS, Cr^{+6}, PERCHLORATE
5	✓	✓	✓	✓	✓	✓	64.37	✓	1324	1326	✓	64.36	0.5	5th RUN: FINAL PARAMETERS
6														
7														
8														
9														
10														
11														
12														

Comments:

Total Volume: 4.5L

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: Depth: 542 Date: 10/21/97

Well Name: MW-23 Sampling Zone No.: SCREEN 5 Starting Time: 1340 Finishing Time: 1500

Technicians J. BRENNER / T. CHOI

Water Level Inside MP Casing (Beginning of Session) 107.44 PSIA (End of Session) 106.38 PSIA

Run No.	Surface Function Checks					Position Sampler	Surface Collection Checks							Comments
	Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Deactivate Set Arm Locate Port	Water Level In MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level In MP (ft) Remove Tape	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	107.44	✓	1348	1351	✓	107.48	1.0	1ST RUN PRIOR SAMPLING: RINSE BOTTLES W/FORMATION WATER: INITIAL PARAMETERS
2	✓	✓	✓	✓	✓	✓	107.44	✓	1414	1417	✓	107.45	1.0	2ND RUN: SAMPLE MW-973-74: 2 VOAS, METALS, ANIONS, Cr^{+6}
3	✓	✓	✓	✓	✓	✓	106.39	✓	1437	1439	✓	106.38	0.5	3RD RUN: SAMPLE MW-973-74: PERCHLOR FINAL PARAMETERS
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments:

Total Volume: 2.5 L

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FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: Depth: 279 Date: 10/7/97

Well Name: MW-24 Sampling Zone No.: SCREEN 1 Starting Time: 1328 Finishing Time: 1425

Technicians T. BLANEY / J. BRENNER / T. CHU

Water Level Inside MP Casing (Beginning of Session) 14.10 PSIA (End of Session) 14.17 PSIA

Run No.	Surface Function Checks					Position Sampler	Surface Collection Checks							Comments
	Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Deactivate Set Arm Locate Port	Water Level In MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level In MP (ft) Remove Tape	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	14.10	✓	1334	1339	✓	14.10	1.0	1ST RUN PRIOR SAMPLING: INITIAL PARAMETERS: RINSE BOTTLES W/FORMATION WATER
2	✓	✓	✓	✓	✓	✓	14.11	✓	1355	1401	✓	14.18	1.0	2ND RUN: SAMPLE MW-973-75: 2VOAs, METALS, 1/2 ANIONS; SAMPLE MW-973-75MS/MSD 4VOAs
3	✓	✓	✓	✓	✓	✓	14.06	✓	1416	1421	✓	14.17	1.0	3RD RUN: SAMPLE MW-973-75: 1/2 ANIONS, PERCHLOR, Cr^{+6}; FINAL PARAMETERS
4														
5														
6														
7														
8														
9														
10														
11														
12														

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Comments:

Total Volume: 3.0 L

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FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: _____ Depth: 373 Date: 10/7/97

Well Name: MW-24 Sampling Zone No.: SCREEN 2 Starting Time: 1432 Finishing Time: 1600

Technicians T. BLANEY / J. BRENNER / T. CHOI

Water Level Inside MP Casing (Beginning of Session) 33.14 PSIA (End of Session) 33.06 PSIA

Run No.	Surface Function Checks					Position Sampler	Surface Collection Checks							Comments
	Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Deactivate Set Arm Locate Port	Water Level In MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level In MP (ft) Remove Tape	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	33.14	✓	1440	1443	✓	33.14	1.0	1ST RUN PRIOR SAMPLING: RINSE BOTTLES W/ FORMATION WATER: INITIAL PARAMETERS
2	✓	✓	✓	✓	✓	✓	33.13	✓	1500	1504	✓	33.13	1.0	2ND RUN: ATTEMPTING TO REDUCE TURBIDITY NTU'S = 10.57
3	✓	✓	✓	✓	✓	✓	33.14	✓	1520	1525	✓	33.06	1.0	3RD RUN: ATTEMPTING TO REDUCE TURBIDITY NTU'S = 12.09
4	✓	✓	✓	✓	✓	✓	33.08	✓	1542	1547	✓	33.06	1.0	4TH RUN: ATTEMPTING TO REDUCE TURBIDITY NTU'S =
5														
6														
7														
8														
9														
10														
11														
12														

Comments: _____

Total Volume: 4.0L

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FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: Depth: 373 Date: 10-8-97

Well Name: MW-24 Sampling Zone No.: SCREEN 2 Starting Time: 0929 Finishing Time: 1150

Technicians T.CHOI / J.BRENNER / T.BLANEY

Water Level Inside MP Casing (Beginning of Session) 58.43 PSIA (End of Session) 58.33 psia

Run No.	Surface Function Checks					Position Sampler	Surface Collection Checks							Comments
	Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Deactivate Set Arm Locate Port	Water Level In MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level In MP (ft) Remove Tape	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	58.43	✓	0938	0942	✓	58.48	1.0	1ST RUN PRIOR SAMPLING; RINSE BOTTLES W/FORMATION WATER; INITIAL PARAMETERS
2	✓	✓	✓	✓	✓	✓	58.47	✓	1000	1004	✓	58.46	1.0	2ND RUN; TRYING TO REDUCE TURBIDITY; NTU'S = 7.99
3	✓	✓	✓	✓	✓	✓	58.47	✓	1029 ~~1039~~	1033 ~~1043~~	✓	58.45	1.0	3RD RUN; ATTEMPTING TO REDUCE TURBIDITY NTU'S =
4	✓	✓	✓	✓	✓	✓	58.48	✓	1051	1056	✓	58.43	1.0	4TH RUN; SAMPLE MW-973-76: 2 VOAS + 1 L METALS QC
5	✓	✓	✓	✓	✓	✓	58.42	✓	1113	1118	✓	58.43	1.0	5TH RUN: SAMPLE MW-973-76: ANIONS ~~PERCHLOR~~ Cr^{+6}
6	✓	✓	✓	✓	✓	✓	58.37	✓	1134	1138	✓	58.33	1.0	6TH RUN: SAMPLE MW-973-76: Cr^{+6} PERCHLOR, FINAL PARAMETERS
7														
8														
9														
10														
11														
12														

Comments:

Total Volume: 6.0 L

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FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: Depth: 435 Date: 10/7/97

Well Name: MW-24 Sampling Zone No.: SCREEN 3 Starting Time: 0810 Finishing Time: 1325

Technicians: T. BLANEY/J. BRENNER/T. CHOI

Water Level Inside MP Casing (Beginning of Session) 60.13 PSIA (End of Session) 60.15 PSIA

Run No.	Surface Function Checks					Position Sampler	Surface Collection Checks							Comments
	Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Deactivate Set Arm Locate Port	Water Level In MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level In MP (ft) Remove Tape	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	60.13	✓	0818	0821	✓	60.15	1.0	1st RUN PRIOR SAMPLING: RINSE BOTTLES w/ FORMATION WATER: INITIAL PARAMETERS NTU's 19.3
2	✓	✓	✓	✓	✓	✓	60.23	✓	0840	0843	✓	60.19	1.0	2nd RUN: ATTEMPTING TO REDUCE TURBIDITY NTU's = 15.1
3	✓	✓	✓	✓	✓	✓	60.20	✓	0901	0905	✓	60.22	1.0	3rd RUN: ATTEMPTING TO REDUCE TURBIDITY NTU's = 18.5
4	✓	✓	✓	✓	✓	✓	60.20	✓	0924	0927	✓	60.21	1.0	4th RUN: ATTEMPTING TO REDUCE TURBIDITY NTU's 10.44
5	✓	✓	✓	✓	✓	✓	60.20	✓	0947	0950	✓	60.21	1.0	5th RUN: ATTEMPTING TO REDUCE TURBIDITY NTU'S = 11.53
6	✓	✓	✓	✓	✓	✓	60.21	✓	1220	1223	✓	60.22	1.0	6th RUN: ATTEMPTING TO REDUCE TURBIDITY, NTU's = 8.20
7	✓	✓	✓	✓	✓	✓	60.17	✓	1245	1248	✓	60.19	1.0	7th RUN: ATTEMPTING TO REDUCE TURBIDITY, NTU's =
8	✓	✓	✓	✓	✓	✓	60.15	✓	1309	1312	✓	60.15	1.0	8th RUN / WILL RETURN LATER
9														
10														
11														
12														

Comments:

Total Volume: 8.0L

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FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: Depth: 435 Date: 10/8/97

Well Name: MW-24 Sampling Zone No.: 3 Starting Time: 1155 Finishing Time: 1306

Technicians: T. Choi, T. Blaney, J. Brenner

Water Level Inside MP Casing (Beginning of Session) 85.23 psia (End of Session) 85.14 psia

Run No.	Surface Function Checks					Position Sampler	Surface Collection Checks							Comments
	Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Deactivate Set Arm Locate Port	Water Level In MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level In MP (ft) Remove Tape	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	85.23	✓	1203	1206	✓	85.23	1	1st Run; NTUs = 4.63; Ready to Sample
2	✓	✓	✓	✓	✓	✓	85.17	✓	1229	1232	✓	85.17	1	Sample MW-973-77; VOCs, metals, Anions, Cr+6
3	✓	✓	✓	✓	✓	✓	85.14	✓	1255	1258	✓	85.14	1	Sample MW-973-77; ClO4 + Field Parameters
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments:

Total Volume: 3.0L

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FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: Depth: 554 Date: 10/6/97

Well Name: MW-24 Sampling Zone No.: SCREEN 4 Starting Time: 1343 Finishing Time: 1600

Technicians T.CHOI/J.BRENNER

Water Level Inside MP Casing (Beginning of Session) 112.15 PSIA (End of Session) 112.05 psia

Run No.	Surface Function Checks					Position Sampler	Surface Collection Checks							Comments
	Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Deactivate Set Arm Locate Port	Water Level In MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level In MP (ft) Remove Tape	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	112.15	✓	1352	1355	✓	112.15	1.0	1ST RUN PRIOR SAMPLING: RINSE BOTTLES W/ FORMATION WATER: INITIAL PARAMETERS
2	✓	✓	✓	✓	✓	✓	112.18	✓	1421	1424	✓	112.15	1.0	2ND RUN: ATTEMPTING TO REDUCE TURBIDITY: NTU's = 5.89
3	✓	✓	✓	✓	✓	✓	112.15	✓	1447	1450	✓	112.12	1.0	3RD RUN: ATTEMPTING TO REDUCE TURBIDITY: NTU's = 4.03
4	✓	✓	✓	✓	✓	✓	112.13	✓	1514	1517	✓	112.12	1.0	4TH RUN: SAMPLE MW-973 78: 2VOA's, METALS, ANIONS, Cr^{+6}
5	✓	✓	✓	✓	✓	✓	112.12	✓	1539	1542	✓	112.03	1.0	5TH RUN: SAMPLE MW-973-78: PERCHLORATE: FINAL PARAMETERS
6														
7														
8														
9														
10														
11														
12														

Comments:

Total Volume: 5.0L

FOSTER WHEELER ENVIRONMENTAL CORPORATION

Groundwater Sampling
Field Data Sheet for Multi-Port Well

Project: JPL Location: Depth: 678 Date: 10-6-97

Well Name: MW-24 Sampling Zone No.: SCREEN 5 Starting Time: 1015 Finishing Time: 1337

Technicians T.CHOI / J. BRENNER

Water Level Inside MP Casing (Beginning of Session) 166.25 PSIA (End of Session) 166.11 PSIA

Run No.	Surface Function Checks					Position Sampler	Surface Collection Checks							Comments
	Activate	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed	Deactivate Set Arm Locate Port	Water Level in MP (ft)	Activate	Valve Open Time	Valve Closed Time	Deactivate	Water Level in MP (ft) Remove Tape	Volume Retrieved (liters)	
1	✓	✓	✓	✓	✓	✓	166.25	✓	1027	1030	✓	166.23	1.0	1ST RUN PRIOR SAMPLING; RINSE BOTTLES W/FORMATION WATER; INITIAL PARAMETERS
2	✓	✓	✓	✓	✓	✓	166.21	✓	1057				Ø	2ND RUN; SHOE HAS BROKEN OFF; BRING OUT OF HOLE TO REPLACE SHOE
3	✓	✓	✓	✓	✓	✓	166.20	✓	1151	1154	✓	166.23	1.0	3RD RUN; TRYING TO REDUCE TURBIDITY; NTU'S = 13.5
4	✓	✓	✓	✓	✓	✓	166.18	✓	1227	1230	✓	166.17	1.0	4TH RUN; TRYING TO REDUCE TURBIDITY; NTU'S = 5.65
5	✓	✓	✓	✓	✓	✓	166.22	✓	1249	1253	✓	166.13	1.0	5TH RUN; TURBIDITY = 4.79 NTU'S; METALS, 2VOA'S ANIONS; SAMPLE MW-973-79
6	✓	✓	✓	✓	✓	✓	166.11	✓	1323	1326	✓	166.11	1.0	6TH RUN; SAMPLE MW-973-79; Cr^{+6}, PERCHLOR
7														
8														
9														
10														
11														
12														

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Comments:

Total Volume: 5.0 L

APPENDIX C

FIELD INSTRUMENT CALIBRATION FORMS

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
Calibration by: MLOSI Date: 29 OCT 97
Instrument Manufacturer: YSI Model: 3500
Serial Number: 93B02618
pH Probe Manufacturer: YSI Model: 3530
Serial Number: 97E811289
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 92B41797
Buffer Solution Manufacturer: API LIRCO
Expiration Dates of Buffer Solutions pH 4.01: _____ pH 7.00: 8/98 pH 10.01: 3/97

INSTRUMENTATION CHECK-OUT

Time: 0745 Battery Condition: GOOD
Instrument Readings with Shorting Plug in, mV: — Temperature: 10.0 pH: 7.0 ISO: —
Reference Chamber Solution Changed ?: —
pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0745 Slope: N/A Temperature: 10.0
Response to Low Buffer: 7.00 Response to High Buffer: 10.0
Time: 0900 Slope: N/A Temperature: 13.9
Response to Low Buffer: 0.02 Response to High Buffer: 0.02
Time: _____ Slope: _____ Temperature: _____
Response to Low Buffer: _____ Response to High Buffer: _____

Comments: _____

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

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
Calibration by: J. BRENNER Date: 10/28/97
Instrument Manufacturer: YSI Model: 3500
Serial Number: 93B02618
pH Probe Manufacturer: YSI Model: 3530
Serial Number: 97E811289
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 92B41797
Buffer Solution Manufacturer: ~~YSI~~ API-LIRCO
Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 8/99 pH 10.01: 3/97

INSTRUMENTATION CHECK-OUT

Time: 0815 Battery Condition: GOOD
Instrument Readings with Shorting Plug in, mV: — Temperature: 14.6 pH: 7.64 ISO: —
Reference Chamber Solution Changed ?: ✓
pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0815 Slope: N/A Temperature: 10.2
Response to Low Buffer: 7.00 Response to High Buffer: 10.0
Time: 1220 Slope: N/A Temperature: 21.8
Response to Low Buffer: 7.00 Response to High Buffer: 10.0
Time: Slope: Temperature:
Response to Low Buffer: Response to High Buffer:

Comments:

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

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
Calibration by: J. BRENNER Date: 10/27/97
Instrument Manufacturer: YSI Model: 3500
Serial Number: 93B026198
pH Probe Manufacturer: YSI Model: 3530
Serial Number: 97E811289
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 92B41797
Buffer Solution Manufacturer: API-LIZCO
Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 8/98 pH 10.01: 3/97

INSTRUMENTATION CHECK-OUT

Time: 0745 Battery Condition: GOOD
Instrument Readings with Shorting Plug in, mV: — Temperature: 13.8 pH: 7.48 ISO: —
Reference Chamber Solution Changed ?: ✓
pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0745 Slope: N/A Temperature: 8.1
Response to Low Buffer: 7.00 Response to High Buffer: 10.0
Time: 1400 Slope: N/A Temperature: 24.6
Response to Low Buffer: 7.00 Response to High Buffer: 10.0
Time: Slope: Temperature:
Response to Low Buffer: Response to High Buffer:

Comments:

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

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
Calibration by: T.CHOI Date: 10/22/97
Instrument Manufacturer: YSI Model: 3500
Serial Number: 93B02618
pH Probe Manufacturer: YSI Model: 3530
Serial Number: 97E811289
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 92B41797
Buffer Solution Manufacturer: API-LIRCO
Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 8-25-98 pH 10.01: 3-18-98

INSTRUMENTATION CHECK-OUT

Time: 0757 Battery Condition: GOOD
Instrument Readings with Shorting Plug in, mV: — Temperature: 13.7 pH: 7.72 ISO: —
Reference Chamber Solution Changed ?: —
pH Probe Condition: GOOP

FIELD CALIBRATION

Time: 0802 Slope: N/A Temperature: 12.9
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: 1640 Slope: N/A Temperature:
Response to Low Buffer: 7.00 Response to High Buffer: 10.0
Time: Slope: Temperature:
Response to Low Buffer: Response to High Buffer:

Comments:

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

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
Calibration by: J. BRENNER Date: 10/21/97
Instrument Manufacturer: YSI Model: 3500
Serial Number: 93B02618
pH Probe Manufacturer: YSI Model: 3530
Serial Number: 97E811289
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 92B41797
Buffer Solution Manufacturer: API-LIRCO
Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 8/98 pH 10.01: 3/98

INSTRUMENTATION CHECK-OUT

Time: 0800 Battery Condition: GOOD
Instrument Readings with Shorting Plug in, mV: — Temperature: 14.6 pH: 7.62 ISO: —
Reference Chamber Solution Changed ?: ✓
pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0800 Slope: N/A Temperature: 14.3
Response to Low Buffer: 7.00 Response to High Buffer: 10.0
Time: 1415 Slope: N/A Temperature: 24.1
Response to Low Buffer: 7.00 Response to High Buffer: 10.0
Time: Slope: Temperature:
Response to Low Buffer: Response to High Buffer:

Comments:

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

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
Calibration by: T. CHOI Date: 10-16-97
Instrument Manufacturer: YSI Model: 3500
Serial Number: 93B02618
pH Probe Manufacturer: YSI Model: 3530
Serial Number: 97E811289
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 92B41797
Buffer Solution Manufacturer: API-LIRCO
Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 8/98 pH 10.01: 3/98

INSTRUMENTATION CHECK-OUT

Time: 0802 Battery Condition: GOOD
Instrument Readings with Shorting Plug in, mV: — Temperature: 21.6 pH: 7.90 ISO: —
Reference Chamber Solution Changed ?: —
pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0803 Slope: N/A Temperature: 22.1
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: 1430 Slope: N/A Temperature: 37.3
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: Slope: Temperature:
Response to Low Buffer: Response to High Buffer:

Comments:

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

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
Calibration by: J. BRENNER Date: 10/15/97
Instrument Manufacturer: YSI Model: 3500
Serial Number: 93B02618
pH Probe Manufacturer: YSI Model: 3530
Serial Number: 97E811289
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 92B41797
Buffer Solution Manufacturer: API - LIRCO
Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 8/98 pH 10.01: 3/98

INSTRUMENTATION CHECK-OUT

Time: 0815 Battery Condition: GOOD
Instrument Readings with Shorting Plug in, mV: — Temperature: 20.4 pH: 7.82 ISO: —
Reference Chamber Solution Changed ?: ✓
pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0815 Slope: N/A Temperature: 20.6
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: 1603 Slope: N/A Temperature:
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: Slope: Temperature:
Response to Low Buffer: Response to High Buffer:

Comments:

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

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
Calibration by: T.CHOI Date: 10-14-97
Instrument Manufacturer: YSI Model: 3500
Serial Number: 93B02618
pH Probe Manufacturer: YSI Model: 3530
Serial Number: 97E811289
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 92B41797
Buffer Solution Manufacturer: COMPLIANCE TECHNOLOGY
Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 8/98 pH 10.01: 3/98

INSTRUMENTATION CHECK-OUT

Time: 1055 Battery Condition: GOOD
Instrument Readings with Shorting Plug in, mV: — Temperature: 25.0 pH: 7.90 ISO: —
Reference Chamber Solution Changed ?: —
pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 1058 Slope: N/A Temperature: 22.5
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: 1610 Slope: N/A Temperature: ~~100~~ 36.3
Response to Low Buffer: 7.00 Response to High Buffer: 10.0
Time: Slope: Temperature:
Response to Low Buffer: Response to High Buffer:

Comments:

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

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
Calibration by: T. CHOI Date: 10-13-97
Instrument Manufacturer: YSI Model: 3500
Serial Number: 93B026818
pH Probe Manufacturer: YSI Model: 3530
Serial Number: 97E811289
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 92B41797
Buffer Solution Manufacturer: COMPLIANCE TECHNOLOGY
Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 8/98 pH 10.01: 3/98

INSTRUMENTATION CHECK-OUT

Time: 0813 Battery Condition: GOOD
Instrument Readings with Shorting Plug in, mV: — Temperature: 15.1 pH: 7.96 ISO: —
Reference Chamber Solution Changed ?: —
pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0817 Slope: N/A Temperature: 14.5
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: 1645 Slope: N/A Temperature: 26.7
Response to Low Buffer: 7.00 Response to High Buffer: 10.0
Time: Slope: Temperature:
Response to Low Buffer: Response to High Buffer:

Comments:

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

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
Calibration by: T. BLANY Date: 10/9/97
Instrument Manufacturer: YSI Model: 3500
Serial Number: 93B02618
pH Probe Manufacturer: YSI Model: 3530
Serial Number: N/A
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: N/A
Buffer Solution Manufacturer: Compliance Tech
Expiration Dates of Buffer Solutions pH 4.01: _____ pH 7.00: 8/98 pH 10.01: 3/98

INSTRUMENTATION CHECK-OUT

Time: 0755 Battery Condition: GOOD
Instrument Readings with Shorting Plug in, mV: — Temperature: 15.0 pH: 7.0 ISO: —
Reference Chamber Solution Changed ?: —
pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0755 Slope: N/A Temperature: 15.2
Response to Low Buffer: 7.00 Response to High Buffer: 10.0
Time: 1130 Slope: N/A Temperature: 20.6
Response to Low Buffer: 7.00 Response to High Buffer: 10.0
Time: _____ Slope: _____ Temperature: _____
Response to Low Buffer: _____ Response to High Buffer: _____

Comments: _____

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

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
Calibration by: T. BLANEY Date: 10/8/97
Instrument Manufacturer: YSI Model: 3500
Serial Number: 93B02618
pH Probe Manufacturer: YSI Model: 3530
Serial Number: N/A
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: N/A
Buffer Solution Manufacturer: COMPLIANCE TECH
Expiration Dates of Buffer Solutions pH 4.01: _____ pH 7.00: 8/25/98 pH 10.01: 3/18/98

INSTRUMENTATION CHECK-OUT

Time: 0745 Battery Condition: GOOD
Instrument Readings with Shorting Plug in, mV: — Temperature: 14.3 pH: 7.00 ISO: —
Reference Chamber Solution Changed ?: —
pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0745 Slope: N/A Temperature: 14.0
Response to Low Buffer: 7.00 Response to High Buffer: 10.0
Time: 1314 Slope: N/A Temperature: 28.9
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: _____ Slope: _____ Temperature: _____
Response to Low Buffer: _____ Response to High Buffer: _____

Comments: _____

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

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
Calibration by: T. Blanny Date: 10/7/97
Instrument Manufacturer: YSI Model: 3500
Serial Number: 93B02618
pH Probe Manufacturer: YSI Model: 3530
Serial Number: N/A
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: N/A
Buffer Solution Manufacturer: Compliance Technology
Expiration Dates of Buffer Solutions pH 4.01: _____ pH 7.00: 8/25/98 pH 10.01: 3/18/98

INSTRUMENTATION CHECK-OUT

Time: 0800 Battery Condition: Good
Instrument Readings with Shorting Plug in, mV: — Temperature: 17.0 pH: 7.00 ISO: —
Reference Chamber Solution Changed ?: —
pH Probe Condition: Good

FIELD CALIBRATION

Time: 0800 Slope: N/A Temperature: 16.8
Response to Low Buffer: 7.00 Response to High Buffer: 10.0
Time: 1605 Slope: N/A Temperature: 22.6
Response to Low Buffer: 7.00 Response to High Buffer: 10.0
Time: _____ Slope: _____ Temperature: _____
Response to Low Buffer: _____ Response to High Buffer: _____

Comments: _____

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

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
Calibration by: T. CHOI Date: 10-6-97
Instrument Manufacturer: YSI Model: 3500
Serial Number: 93B02618
pH Probe Manufacturer: YSI Model: 3530
Serial Number: 97E811289
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 92B41797
Buffer Solution Manufacturer: COMPLIANCE TECHNOLOGY
Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 8-25-98 pH 10.01: 3-18-98

INSTRUMENTATION CHECK-OUT

Time: 1000 Battery Condition: GOOD
Instrument Readings with Shorting Plug in, mV: — Temperature: 21.4 pH: 7.06 ISO: —
Reference Chamber Solution Changed ?: —
pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 1002 Slope: N/A Temperature: 19.1
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: 1600 Slope: N/A Temperature: 26.0
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: Slope: Temperature:
Response to Low Buffer: Response to High Buffer:

Comments:

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

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
Calibration by: MLOSI Date: 10/2/97
Instrument Manufacturer: YSI Model: 3500
Serial Number: 93B02618
pH Probe Manufacturer: YSI Model: 3530
Serial Number: 97E811289
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: —
Buffer Solution Manufacturer: APT-LIRCO
Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 8/98 pH 10.01: 3/98

INSTRUMENTATION CHECK-OUT

Time: 0730 Battery Condition: GOOD
Instrument Readings with Shorting Plug in, mV: — Temperature: 21.1 pH: 7.62 ISO: —
Reference Chamber Solution Changed ?: —
pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0730 Slope: — Temperature: 21.0
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: 1500 Slope: N/A Temperature: 24.6
Response to Low Buffer: 7.00 Response to High Buffer: 10.0
Time: Slope: Temperature:
Response to Low Buffer: Response to High Buffer:

Comments:

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

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
Calibration by: J. BRENNER Date: 10/1/97
Instrument Manufacturer: YSI Model: 3500
Serial Number: 93B02618
pH Probe Manufacturer: YSI Model: 3530
Serial Number: 97E811289
ATC Probe Manufacturer: YSI Model: 3510
Serial Number:
Buffer Solution Manufacturer: APT-URCO
Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 8/98 pH 10.01: 3/98

INSTRUMENTATION CHECK-OUT

Time: 0825 Battery Condition: ~~[illegible]~~ GOOD
Instrument Readings with Shorting Plug in, mV: — Temperature: 19.8 pH: 7.15 ISO: —
Reference Chamber Solution Changed ?: ✓
pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0825 Slope: N/A Temperature: 19.9
Response to Low Buffer: 7.00 Response to High Buffer: 10.0
Time: 1530 Slope: N/A Temperature: 34.3
Response to Low Buffer: 7.00 Response to High Buffer: 10.0
Time: Slope: Temperature:
Response to Low Buffer: Response to High Buffer:

Comments:

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

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
Calibration by: T.CHOI Date: 9-30-97
Instrument Manufacturer: YSI Model: 3500
Serial Number: 93B02618
pH Probe Manufacturer: YSI Model: 3630
Serial Number: 97E811289
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 92B41797
Buffer Solution Manufacturer: CALITECH
Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 8-25-98 pH 10.01: 3-18-98

INSTRUMENTATION CHECK-OUT

Time: 0813 Battery Condition: GOOD
Instrument Readings with Shorting Plug in, mV: — Temperature: 18.6 pH: 7.10 ISO: —
Reference Chamber Solution Changed ?: —
pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0814 Slope: N/A Temperature: 18.9
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: 1500 Slope: N/A Temperature: 31.9
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: Slope: Temperature:
Response to Low Buffer: Response to High Buffer:

Comments:

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

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
Calibration by: MLOSI Date: 9/29/97
Instrument Manufacturer: YSI Model: 3500
Serial Number: 93B02618
pH Probe Manufacturer: YSI Model: 3630
Serial Number: 97E811289
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 92B41797
Buffer Solution Manufacturer: CALITECH
Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 8/25/98 pH 10.01: 3/18/98

INSTRUMENTATION CHECK-OUT

Time: 0655 Battery Condition: GOOD
Instrument Readings with Shorting Plug in, mV: — Temperature: 20.9 pH: 8.01 ISO: —
Reference Chamber Solution Changed ?: —
pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0655 Slope: — Temperature: 20.3
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: 1505 Slope: — Temperature: 33.5
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: Slope: Temperature:
Response to Low Buffer: Response to High Buffer:

Comments:

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

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
Calibration by: MLOSI Date: 9/25/97
Instrument Manufacturer: YSI Model: 3500
Serial Number: 93B02618
pH Probe Manufacturer: YSI Model: 2530
Serial Number: N/A
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: N/A
Buffer Solution Manufacturer: Compliance Tech.
Expiration Dates of Buffer Solutions pH 4.01: _____ pH 7.00: 8/25/98 pH 10.01: 3/18/98

INSTRUMENTATION CHECK-OUT

Time: 0830 Battery Condition: GOOD
Instrument Readings with Shorting Plug in, mV: — Temperature 22.0 pH: 7.29 ISO: —
Reference Chamber Solution Changed ?: —
pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0830 Slope: NA Temperature: 21.5
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: 1640 Slope: N/A Temperature: 23.3
Response to Low Buffer: 7.00 Response to High Buffer: 10.0
Time: _____ Slope: _____ Temperature: _____
Response to Low Buffer: _____ Response to High Buffer: _____

Comments: _____

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

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: IPL

Calibration by: MLOSI Date: ~~0740~~ 9/24/97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93B02618

pH Probe Manufacturer: YSI Model: 3530

Serial Number: 97E811289

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: 92B41797

Buffer Solution Manufacturer: CALITECH

Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 3/98 pH 10.01: 3/98

INSTRUMENTATION CHECK-OUT

Time: 0740 Battery Condition: GOOD

Instrument Readings with Shorting Plug in, mV: — Temperature: 24.9 pH: 8.01 ISO: —

Reference Chamber Solution Changed ?: —

pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0740 Slope: N/A Temperature: 25.1

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

Time: 1445 Slope: N/A Temperature: 33.6

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

Time: Slope: Temperature:

Response to Low Buffer: Response to High Buffer:

Comments:

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

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
Calibration by: MLOSI Date: 9/22/97
Instrument Manufacturer: YSI Model: 3503
Serial Number: 93B02618
pH Probe Manufacturer: YSI Model: 3630
Serial Number: 97E811289
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 92B41797
Buffer Solution Manufacturer: CALITECH
Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 8/25/98 pH 10.01: 3/18/98

INSTRUMENTATION CHECK-OUT

Time: 0735 Battery Condition: GOOD
Instrument Readings with Shorting Plug in, mV: — Temperature: 23.6 pH: 8.02 ISO: —
Reference Chamber Solution Changed ?: —
pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0735 Slope: N/A Temperature: 23.5
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: 1415 Slope: N/A Temperature: 25.0
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: Slope: Temperature:
Response to Low Buffer: Response to High Buffer:

Comments:

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

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
Calibration by: T.CHOI Date: 9/19/97
Instrument Manufacturer: YSI Model: 3500
Serial Number: 93B02618
pH Probe Manufacturer: YSI Model: 3630
Serial Number: 97E811289
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 92134797
Buffer Solution Manufacturer: CALITECH
Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 8/25/98 pH 10.01: 3/18/98

INSTRUMENTATION CHECK-OUT

Time: 0810 Battery Condition: GOOD
Instrument Readings with Shorting Plug in, mV: — Temperature: 19.8 pH: 7.30 ISO: —
Reference Chamber Solution Changed ?: —
pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0815 Slope: N/A Temperature: 19.5
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: 1514 Slope: N/A Temperature: 31.9
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: Slope: Temperature:
Response to Low Buffer: Response to High Buffer:

Comments:

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

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
Calibration by: T.CHOI Date: 9/19/97
Instrument Manufacturer: YSI Model: 3500
Serial Number: 93B02618
pH Probe Manufacturer: YSI Model: 3630
Serial Number: 97E811289
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 921341797
Buffer Solution Manufacturer: CALITECH
Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 8/25/98 pH 10.01: 3/13/98

INSTRUMENTATION CHECK-OUT

Time: 0645 Battery Condition: GOOD
Instrument Readings with Shorting Plug in, mV: — Temperature: 17.4 pH: 7.14 ISO: —
Reference Chamber Solution Changed ?: —
pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0645 Slope: N/A Temperature: 20.5
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: Slope: Temperature:
Response to Low Buffer: Response to High Buffer:
Time: Slope: Temperature:
Response to Low Buffer: Response to High Buffer:

Comments:

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

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
Calibration by: MLOSI Date: 9/18/97
Instrument Manufacturer: YSI Model: 3500
Serial Number: 93B02618
pH Probe Manufacturer: YSI Model: 3630
Serial Number: 97E811289
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 92B41797
Buffer Solution Manufacturer: CALITECH
Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 8/25/98 pH 10.01: 3/18/98

INSTRUMENTATION CHECK-OUT

Time: 0810 Battery Condition: GOOD
Instrument Readings with Shorting Plug in, mV: — Temperature: 24.9 pH: 8.01 ISO: —
Reference Chamber Solution Changed ?: —
pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0810 Slope: — Temperature: 23.8
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: 1438 Slope: — Temperature: 38.3
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: Slope: Temperature:
Response to Low Buffer: Response to High Buffer:

Comments:

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

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
Calibration by: MLOSI Date: 9/17/97
Instrument Manufacturer: YSI Model: 3500
Serial Number: 93B02618
pH Probe Manufacturer: YSI Model: 3530
Serial Number: 97E811289
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 92B41797
Buffer Solution Manufacturer: API-LIRCO
Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 8/25/98 pH 10.01: 3/18/98

INSTRUMENTATION CHECK-OUT

Time: 0811 Battery Condition: GOOD
Instrument Readings with Shorting Plug in, mV: — Temperature: 23.1 pH: 7.52 ISO: —
Reference Chamber Solution Changed ?: —
pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0811 Slope: N/A Temperature: 22.8
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: 1410 Slope: N/A Temperature: 31.2
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: Slope: Temperature:
Response to Low Buffer: Response to High Buffer:

Comments:

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

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
Calibration by: T.CHOI Date: 9-16-97
Instrument Manufacturer: YSI Model: 3500
Serial Number: 93B02618
pH Probe Manufacturer: YSI Model: 3530
Serial Number: 97E811289
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 92B41797
Buffer Solution Manufacturer: API-LIRCO
Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 8-25-98 pH 10.01: 3-18-98

INSTRUMENTATION CHECK-OUT

Time: 0828 Battery Condition: GOOD
Instrument Readings with Shorting Plug in, mV: — Temperature: 23.5 pH: 7.65 ISO: —
Reference Chamber Solution Changed ?: —
pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0830 Slope: N/A Temperature: 22.2
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: 1417 Slope: N/A Temperature: 30.6
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: ~~0814~~ Slope: ~~N/A~~ Temperature: ~~[illegible]~~
Response to Low Buffer: Response to High Buffer:

Comments:

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

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
Calibration by: TCHOI Date: 9-15-97
Instrument Manufacturer: YSI Model: 3500
Serial Number: 93B02618
pH Probe Manufacturer: YSI Model: 3630
Serial Number: 97E811289
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 92B41797
Buffer Solution Manufacturer: CALTECH
Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 8-25-98 pH 10.01: 3-18-98

INSTRUMENTATION CHECK-OUT

Time: 0756 Battery Condition: GOOD
Instrument Readings with Shorting Plug in, mV: — Temperature: 23.8 pH: 7.29 ISO: —
Reference Chamber Solution Changed ?: —
pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0758 Slope: — Temperature: 23.4
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: 1413 Slope: — Temperature: 30.5
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: Slope: Temperature:
Response to Low Buffer: Response to High Buffer:

Comments:

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

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
Calibration by: MLOSI Date: 9/12/97
Instrument Manufacturer: YSI Model: 3500
Serial Number: 93B02618
pH Probe Manufacturer: YSI Model: 3630
Serial Number: 97E811289
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 92B41797
Buffer Solution Manufacturer: CALITECH
Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 8/25/98 pH 10.01: 3/18/98

INSTRUMENTATION CHECK-OUT

Time: 0835 Battery Condition: GOOD
Instrument Readings with Shorting Plug in, mV: — Temperature: 24.9 pH: 8.32 ISO: —
Reference Chamber Solution Changed ?: —
pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0835 Slope: — Temperature: 22.9
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: 1417 Slope: — Temperature:
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: Slope: Temperature:
Response to Low Buffer: Response to High Buffer:

Comments:

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

CONDUCTIVITY/SALINITY/TEMPERATURE METER
FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: MLDSI Date: 2

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93B02618

Probe Manufacturer: YSI Model: 3520

Serial Number: 95A93966

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1000 µS/cm Solution Expiration Date: 9/98

FIELD CALIBRATION

Time: 0745 Temperature of Solution: 8.6

Temperature Compensated Solution Conductivity (µ S/cm) *: 721

Instrument Response to Calibration Solution: 741

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

Time: 0900 Temperature of Solution: 13.9

Temperature Compensated Solution Conductivity (µ S/cm) *: 789

Instrument Response to Calibration Solution: 798

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

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

And

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

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

CONDUCTIVITY/SALINITY/TEMPERATURE METER
FIELD CALIBRATION FORM

Project Name: JPL.

Calibration by: J. BRENNER Date: 10/28/97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93B02618

Probe Manufacturer: YSI Model: 3520

Serial Number: 95A93964

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1,000 µS/cm Solution Expiration Date: 12/97

FIELD CALIBRATION

Time: 0815 Temperature of Solution: ~~9.6~~ 11.3

Temperature Compensated Solution Conductivity (µ S/cm) *: 742

Instrument Response to Calibration Solution: 756

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

Time: 1220 Temperature of Solution: 21.8

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

Instrument Response to Calibration Solution: 967

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

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

And

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

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

CONDUCTIVITY/SALINITY/TEMPERATURE METER
FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: J. BRENNER Date: 10/27/97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93B026018

Probe Manufacturer: YSI Model: 3580

Serial Number: 95A93966

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1,000 µS/cm Solution Expiration Date: 12/97

FIELD CALIBRATION

Time: 0745 Temperature of Solution: 8.3

Temperature Compensated Solution Conductivity (µ S/cm) * 687

Instrument Response to Calibration Solution: 720

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

Time: 1400 Temperature of Solution: 24.6

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

Instrument Response to Calibration Solution: 959

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

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

And

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

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

CONDUCTIVITY/SALINITY/TEMPERATURE METER
FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: T.CHOI Date: 10-22-97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93B02618

Probe Manufacturer: YSI Model: 3520

Serial Number: 95A93966

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1,000 µS/cm Solution Expiration Date: 12/97

FIELD CALIBRATION

Time: 0809 Temperature of Solution: 13.3

Temperature Compensated Solution Conductivity (µ S/cm) * 778

Instrument Response to Calibration Solution: 750

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

Time: 1640 Temperature of Solution: 26.8

Temperature Compensated Solution Conductivity (µ S/cm) * 1035

Instrument Response to Calibration Solution: 999

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

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

And

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

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

CONDUCTIVITY/SALINITY/TEMPERATURE METER
FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: J. BRENNER Date: 10/21/97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93802618

Probe Manufacturer: YSI Model: 3520

Serial Number: 95A93966

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1,000 µS/cm Solution Expiration Date: 12/97

FIELD CALIBRATION

Time: 0800 Temperature of Solution: 14.3

Temperature Compensated Solution Conductivity (µ S/cm) * 797

Instrument Response to Calibration Solution: 823

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

Time: 1415 Temperature of Solution: 24.0

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

Instrument Response to Calibration Solution: 930

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

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

And

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

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

CONDUCTIVITY/SALINITY/TEMPERATURE METER
FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: T.CHOI Date: 10-16-97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93B0218518

Probe Manufacturer: YSI Model: 3520

Serial Number: 95A93966

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1,000µS/cm Solution Expiration Date: 12/97

FIELD CALIBRATION

Time: 0808 Temperature of Solution: 21.8

Temperature Compensated Solution Conductivity (µ S/cm) * ~~21.8~~ 938

Instrument Response to Calibration Solution: 988

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

Time: 1430 Temperature of Solution: 35.5

Temperature Compensated Solution Conductivity (µ S/cm) * 1209

Instrument Response to Calibration Solution: 1268

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

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

And

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

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

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: T CHOI Date: 10-15-97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93B02618

Probe Manufacturer: YSI Model: 3520

Serial Number: 95A93966

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1,000 µS/cm Solution Expiration Date: 12/97

FIELD CALIBRATION

Time: 0818 Temperature of Solution: 20.3

Temperature Compensated Solution Conductivity (µ S/cm) * 910

Instrument Response to Calibration Solution: 954

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

Time: 1610 Temperature of Solution: 39.5

Temperature Compensated Solution Conductivity (µ S/cm) * 1291

Instrument Response to Calibration Solution: 1337

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

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

And

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

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

CONDUCTIVITY/SALINITY/TEMPERATURE METER
FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: T.CHOI Date: 10-14-97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93802618

Probe Manufacturer: YSI Model: 3520

Serial Number: 95A93966

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1,000 µS/cm Solution Expiration Date: 12/97

FIELD CALIBRATION

Time: 1100 Temperature of Solution: 22.3

Temperature Compensated Solution Conductivity (µ S/cm) * 948

Instrument Response to Calibration Solution: 991

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

Time: 1610 Temperature of Solution: 36.3

Temperature Compensated Solution Conductivity (µ S/cm) * 1225

Instrument Response to Calibration Solution: 1280

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

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

And

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

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

CONDUCTIVITY/SALINITY/TEMPERATURE METER
FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: T.CHOI Date: 10/13/97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93B02618

Probe Manufacturer: YSI Model: 3520

Serial Number: 95A93966

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1,000 µS/cm Solution Expiration Date: 12/97

FIELD CALIBRATION

Time: 0822 Temperature of Solution: 14.5

Temperature Compensated Solution Conductivity (µ S/cm) * 801

Instrument Response to Calibration Solution: 827

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

Time: 1645 Temperature of Solution: 32.4

Temperature Compensated Solution Conductivity (µ S/cm) * 1146

Instrument Response to Calibration Solution: 1134

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

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

And

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

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

CONDUCTIVITY/SALINITY/TEMPERATURE METER
FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: T. Brady Date: 10/9/97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93B02618

Probe Manufacturer: YSI Model: 3520

Serial Number: 95A93966

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1,000 µS/cm Solution Expiration Date: 12/97

FIELD CALIBRATION

Time: 0755 Temperature of Solution: 15.0

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

Instrument Response to Calibration Solution: 826

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

Time: 1130 Temperature of Solution: 18.7

Temperature Compensated Solution Conductivity (µ S/cm) *: 879

Instrument Response to Calibration Solution: 889

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

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

And

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

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

CONDUCTIVITY/SALINITY/TEMPERATURE METER
FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: T. BLANEY Date: 10/8/97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93B02618

Probe Manufacturer: YSI Model: 3520

Serial Number: 95A93966

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1,000 µS/cm Solution Expiration Date: 12/97

FIELD CALIBRATION

Time: 0745 Temperature of Solution: 14.0

Temperature Compensated Solution Conductivity (µ S/cm) * 791

Instrument Response to Calibration Solution: 812

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

Time: 1310 Temperature of Solution: 28.9

Temperature Compensated Solution Conductivity (µ S/cm) * 1077

Instrument Response to Calibration Solution: 1092

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

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

And

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

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

CONDUCTIVITY/SALINITY/TEMPERATURE METER
FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: T. Blaney Date: 10/7/97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93B02618

Probe Manufacturer: YSI Model: 3520

Serial Number: 95A93966

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1,000 µS/cm Solution Expiration Date: 12/97

FIELD CALIBRATION

Time: 0800 Temperature of Solution: 15.5

Temperature Compensated Solution Conductivity (µ S/cm) * 819

Instrument Response to Calibration Solution: 841

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

Time: 1605 Temperature of Solution: 28.4

Temperature Compensated Solution Conductivity (µ S/cm) * 1067

Instrument Response to Calibration Solution: 1049

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

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

And

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

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

CONDUCTIVITY/SALINITY/TEMPERATURE METER
FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: T.CHOI Date: 10-6-97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93B02618

Probe Manufacturer: YSI Model: 3520

Serial Number: 95A93966

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1,000 µS/cm Solution Expiration Date: 12/97

FIELD CALIBRATION

Time: 1006 Temperature of Solution: 19.5

Temperature Compensated Solution Conductivity (µ S/cm) * 894

Instrument Response to Calibration Solution: 918

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

Time: 1557 Temperature of Solution: 26.0

Temperature Compensated Solution Conductivity (µ S/cm) * 1019

Instrument Response to Calibration Solution: 992

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

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

And

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

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

CONDUCTIVITY/SALINITY/TEMPERATURE METER
FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: MLOSI Date: 10/2/97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 98B02688

Probe Manufacturer: YSI Model: 3520

Serial Number:

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1000µS/cm Solution Expiration Date: 12/97

FIELD CALIBRATION

Time: 0730 Temperature of Solution: 21.0

Temperature Compensated Solution Conductivity (µ S/cm) *: 921

Instrument Response to Calibration Solution: 933

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

Time: 1500 Temperature of Solution: 25.2

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

Instrument Response to Calibration Solution: 1016

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

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

And

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

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

CONDUCTIVITY/SALINITY/TEMPERATURE METER
FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: J. BRENNER Date: 10/1/97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93B02618

Probe Manufacturer: YSI Model: 3520

Serial Number: 95A93966

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1,000 µS/cm Solution Expiration Date: 12/97

FIELD CALIBRATION

Time: 0825 Temperature of Solution: 18.9

Temperature Compensated Solution Conductivity (µ S/cm) * 883

Instrument Response to Calibration Solution: 897

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

Time: 1535 Temperature of Solution: 33.5

Temperature Compensated Solution Conductivity (µ S/cm) * 1169

Instrument Response to Calibration Solution: 1179

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

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

And

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

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

CONDUCTIVITY/SALINITY/TEMPERATURE METER
FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: T.CHOI Date: 9-30-97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93B02618

Probe Manufacturer: YSI Model: 3520

Serial Number: 95A93966

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1,000 µS/cm Solution Expiration Date: 12/97

FIELD CALIBRATION

Time: 0816 Temperature of Solution: 19.0

Temperature Compensated Solution Conductivity (µ S/cm) * 885

Instrument Response to Calibration Solution: 880

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

Time: 1504 Temperature of Solution: 32.7

Temperature Compensated Solution Conductivity (µ S/cm) * 1152

Instrument Response to Calibration Solution: 1178

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

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

And

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

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

CONDUCTIVITY/SALINITY/TEMPERATURE METER
FIELD CALIBRATION FORM

Project Name: JPL
Calibration by: MLOSI Date: 9/29/97
Instrument Manufacturer: YSI Model: 3500
Serial Number: 93B02618
Probe Manufacturer: YSI Model: 3520
Serial Number: 95A93966
Calibration Solution Manufacturer: YSI
Solution Conductivity: 1000 µS/cm Solution Expiration Date: 12/97

FIELD CALIBRATION

Time: 0655 Temperature of Solution: 20.0
Temperature Compensated Solution Conductivity (µ S/cm) *: 904
Instrument Response to Calibration Solution: 956
Instrument Response within Instrument and Probe Limits of Error: ** Yes: ✓ No: ____

Time: 1505 Temperature of Solution: 34.0
Temperature Compensated Solution Conductivity (µ S/cm) *: 1175
Instrument Response to Calibration Solution: 1247
Instrument Response within Instrument and Probe Limits of Error: ** Yes: ✓ No: ____

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

And

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

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

CONDUCTIVITY/SALINITY/TEMPERATURE METER
FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: J. Brenna Date: 9/25/97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93B02618

Probe Manufacturer: YSI Model: 3520

Serial Number: 95A93966

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1,000 µS/cm Solution Expiration Date: 12/97

FIELD CALIBRATION

Time: 0830 Temperature of Solution: 21.0

Temperature Compensated Solution Conductivity (µ S/cm) *: 923

Instrument Response to Calibration Solution: 975

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

Time: 1640 Temperature of Solution: 23.1

Temperature Compensated Solution Conductivity (µ S/cm) *: 963

Instrument Response to Calibration Solution: 993

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

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

And

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

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

CONDUCTIVITY/SALINITY/TEMPERATURE METER
FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: MLOSI Date: 9/24/97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93B02618

Probe Manufacturer: YSI Model: 3520

Serial Number: 95A93766

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1000µS/cm Solution Expiration Date: 12/97

FIELD CALIBRATION

Time: 0740 Temperature of Solution: 25.0

Temperature Compensated Solution Conductivity (µ S/cm) * 1000

Instrument Response to Calibration Solution: 1054

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

Time: 1445 Temperature of Solution: 34.2

Temperature Compensated Solution Conductivity (µ S/cm) * 1215

Instrument Response to Calibration Solution: 1285

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

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

And

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

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

CONDUCTIVITY/SALINITY/TEMPERATURE METER
FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: MLOSI Date: 9/23/97

Instrument Manufacturer: YSI Model: ~~DRT 15C~~ 3500

Serial Number: 93B02618

Probe Manufacturer: YSI Model: 3520

Serial Number: 95A93966

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1000µS/cm Solution Expiration Date: 12/97

FIELD CALIBRATION

Time: 0735 Temperature of Solution: 23.0

Temperature Compensated Solution Conductivity (µ S/cm) *: 961

Instrument Response to Calibration Solution: 1010

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

Time: 1415 Temperature of Solution: 34.0

Temperature Compensated Solution Conductivity (µ S/cm) *: 1179

Instrument Response to Calibration Solution: 1231

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

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

And

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

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

CONDUCTIVITY/SALINITY/TEMPERATURE METER
FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: T. CHOI Date: 9-22-97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93B02618

Probe Manufacturer: YSI Model: 3520

Serial Number: 95A93966

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1,000 µS/cm Solution Expiration Date: 12/97

FIELD CALIBRATION

Time: 0650 Temperature of Solution: 20.4

Temperature Compensated Solution Conductivity (µ S/cm) * 912

Instrument Response to Calibration Solution: 965

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

Time: ____ Temperature of Solution: ____

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

Instrument Response to Calibration Solution: ____

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

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

And

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

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

CONDUCTIVITY/SALINITY/TEMPERATURE METER
FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: TCH01 Date: 9/19/97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93B02648

Probe Manufacturer: YSI Model: 3520

Serial Number: 95A93946

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1000 µS/cm Solution Expiration Date: 12/97

FIELD CALIBRATION

Time: 0817 Temperature of Solution: 19.5

Temperature Compensated Solution Conductivity (µ S/cm) *: 891

Instrument Response to Calibration Solution: 949

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

Time: 1517 Temperature of Solution: 32.6

Temperature Compensated Solution Conductivity (µ S/cm) *: 1150

Instrument Response to Calibration Solution: 1230

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

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

And

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

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

CONDUCTIVITY/SALINITY/TEMPERATURE METER
FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: MLOSI Date: 9/18/97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93B02618

Probe Manufacturer: YSI Model: 3520

Serial Number: 95A93966

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1000µS/cm Solution Expiration Date: 12/97

FIELD CALIBRATION

Time: 0810 Temperature of Solution: 24.0

Temperature Compensated Solution Conductivity (µ S/cm) * 980.7

Instrument Response to Calibration Solution: 1005

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

Time: 1438 Temperature of Solution: 38.0

Temperature Compensated Solution Conductivity (µ S/cm) * 1260

Instrument Response to Calibration Solution: 1308

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

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

And

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

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

CONDUCTIVITY/SALINITY/TEMPERATURE METER
FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: TCH01 Date: 9/17/97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93B02618

Probe Manufacturer: YSI Model: 3520

Serial Number: 95A93966

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1000 µS/cm Solution Expiration Date: 12/97

FIELD CALIBRATION

Time: 0811 Temperature of Solution: 22.6

Temperature Compensated Solution Conductivity (µ S/cm) *: 9536

Instrument Response to Calibration Solution: 1001

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

Time: 1415 Temperature of Solution: 31.6

Temperature Compensated Solution Conductivity (µ S/cm) *: 9130

Instrument Response to Calibration Solution: 1201

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

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

And

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

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

CONDUCTIVITY/SALINITY/TEMPERATURE METER
FIELD CALIBRATION FORM

Project Name: JPL
Calibration by: T. CHOI Date: 9/16/97
Instrument Manufacturer: YSI Model: 3500
Serial Number: 93B02618
Probe Manufacturer: YSI Model: 3520
Serial Number: 95A93966
Calibration Solution Manufacturer: YSI
Solution Conductivity: 1,000 µS/cm Solution Expiration Date: 12/97

FIELD CALIBRATION

Time: 0830 Temperature of Solution: 22.1
Temperature Compensated Solution Conductivity (µ S/cm) *
Instrument Response to Calibration Solution: 996
Instrument Response within Instrument and Probe Limits of Error: ** Yes:____ No:____

Time: 1417 Temperature of Solution: 31.0
Temperature Compensated Solution Conductivity (µ S/cm) * 1118
Instrument Response to Calibration Solution: 1183
Instrument Response within Instrument and Probe Limits of Error: ** Yes: ✓ No:____

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

And

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

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

CONDUCTIVITY/SALINITY/TEMPERATURE METER
FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: T.CHOI Date: 9-15-97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93B02618

Probe Manufacturer: YSI Model: 3520

Serial Number: 95A93966

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1,000 µS/cm Solution Expiration Date: 12/97

FIELD CALIBRATION

Time: 0755 Temperature of Solution: 23.4

Temperature Compensated Solution Conductivity (µ S/cm) * 9.52

Instrument Response to Calibration Solution: 1018

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

Time: 1413 Temperature of Solution: 30.0

Temperature Compensated Solution Conductivity (µ S/cm) * 1098

Instrument Response to Calibration Solution: 1162

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

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

And

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

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

CONDUCTIVITY/SALINITY/TEMPERATURE METER
FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: MLOS1 Date: 9/12/97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 93B02618

Probe Manufacturer: YSI Model: 3520

Serial Number: 95A93966

Calibration Solution Manufacturer: YSI

Solution Conductivity: 1000 µS/cm Solution Expiration Date: 12/97

FIELD CALIBRATION

Time: 0841 Temperature of Solution: 22.8

Temperature Compensated Solution Conductivity (µ S/cm) *: 9575

Instrument Response to Calibration Solution: 1005

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

Time: 1417 Temperature of Solution: 29.7

Temperature Compensated Solution Conductivity (µ S/cm) *: 1092

Instrument Response to Calibration Solution: 1153

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

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

And

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

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

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL

Standardization by: MLosi Date: 29OCT97

Instrument Manufacturer: HFS Model: DRT 15C

Serial Number: 2654 Calibration Date: 21OCT97

STANDARDIZATION

Time: 0745 Selected Scale: 20 Instrument at Zero: Yes / No Stray Light Response: —

NTU of Standard: 0.02 Instrument Reading: 0.02

NTU of Standard: _____ Instrument Reading: _____

Time: 0900 Selected Scale: 20 Instrument at Zero: Yes / No Stray Light Response: N/A

NTU of Standard: 0.02 Instrument Reading: 0.02

NTU of Standard: _____ Instrument Reading: _____

Time: _____ Selected Scale: _____ Instrument at Zero: Yes / No Stray Light Response: _____

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

Time: _____ Selected Scale: _____ Instrument at Zero: Yes / No Stray Light Response: _____

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

Time: _____ Selected Scale: _____ Instrument at Zero: Yes / No Stray Light Response: _____

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

Comments: _____

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL
Standardization by: J. BRENNER Date: 10/28/97
Instrument Manufacturer: HF SCIENTIFIC Model: DRT-15C
Serial Number: 2654 Calibration Date: 10/28/97

STANDARDIZATION

Time: 0815 Selected Scale: 20 Instrument at Zero: (Yes) No Stray Light Response: N/A
NTU of Standard: 0.02 Instrument Reading: 0.02
NTU of Standard: _____ Instrument Reading: _____

Time: 1220 Selected Scale: 20 Instrument at Zero: (Yes) No Stray Light Response: N/A
NTU of Standard: 0.02 Instrument Reading: 0.02
NTU of Standard: _____ Instrument Reading: _____

Time: _____ Selected Scale: _____ Instrument at Zero: Yes / No Stray Light Response: _____
NTU of Standard: _____ Instrument Reading: _____
NTU of Standard: _____ Instrument Reading: _____

Time: _____ Selected Scale: _____ Instrument at Zero: Yes / No Stray Light Response: _____
NTU of Standard: _____ Instrument Reading: _____
NTU of Standard: _____ Instrument Reading: _____

Time: _____ Selected Scale: _____ Instrument at Zero: Yes / No Stray Light Response: _____
NTU of Standard: _____ Instrument Reading: _____
NTU of Standard: _____ Instrument Reading: _____

Comments: _____

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TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL

Standardization by: J. BRENNER Date: 10/27/97

Instrument Manufacturer: HF SCIENTIFIC Model: DRT-15C

Serial Number: 2654 Calibration Date: 10/27/97

STANDARDIZATION

Time: 0745 Selected Scale: 20 Instrument at Zero: Yes / No Stray Light Response: N/A

NTU of Standard: 0.02 Instrument Reading: 0.02

NTU of Standard: _____ Instrument Reading: _____

Time: 1400 Selected Scale: 20 Instrument at Zero: Yes / No Stray Light Response: N/A

NTU of Standard: 0.02 Instrument Reading: 0.02

NTU of Standard: _____ Instrument Reading: _____

Time: _____ Selected Scale: _____ Instrument at Zero: Yes / No Stray Light Response: _____

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

Time: _____ Selected Scale: _____ Instrument at Zero: Yes / No Stray Light Response: _____

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

Time: _____ Selected Scale: _____ Instrument at Zero: Yes / No Stray Light Response: _____

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

Comments: _____

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL
Standardization by: T.CHOI Date: 10-22-97
Instrument Manufacturer: HF SCIENTIFIC Model: DRT-15C
Serial Number: 2654 Calibration Date: 10-22-97

STANDARDIZATION

Time: 0805 Selected Scale: 20 Instrument at Zero: Yes / No Stray Light Response: N/A
NTU of Standard: 0.02 Instrument Reading: 0.02
NTU of Standard: Instrument Reading:

Time: 1640 Selected Scale: 20 Instrument at Zero: Yes / No Stray Light Response: N/A
NTU of Standard: 0.02 Instrument Reading: 0.02
NTU of Standard: Instrument Reading:

Time: Selected Scale: Instrument at Zero: Yes / No Stray Light Response:
NTU of Standard: Instrument Reading:
NTU of Standard: Instrument Reading:

Time: Selected Scale: Instrument at Zero: Yes / No Stray Light Response:
NTU of Standard: Instrument Reading:
NTU of Standard: Instrument Reading:

Time: Selected Scale: Instrument at Zero: Yes / No Stray Light Response:
NTU of Standard: Instrument Reading:
NTU of Standard: Instrument Reading:

Comments:

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL

Standardization by: J. BRENNER Date: 10/21/97

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

Serial Number: 2654 Calibration Date: 10/21/97

STANDARDIZATION

Time: 0800 Selected Scale: 20 Instrument at Zero: (Yes) No Stray Light Response: N/A

NTU of Standard: 0.02 Instrument Reading: 0.02

NTU of Standard: _____ Instrument Reading: _____

Time: 1415 Selected Scale: 20 Instrument at Zero: (Yes) No Stray Light Response: N/A

NTU of Standard: 0.02 Instrument Reading: 0.02

NTU of Standard: _____ Instrument Reading: _____

Time: _____ Selected Scale: _____ Instrument at Zero: Yes / No Stray Light Response: _____

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

Time: _____ Selected Scale: _____ Instrument at Zero: Yes / No Stray Light Response: _____

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

Time: _____ Selected Scale: _____ Instrument at Zero: Yes / No Stray Light Response: _____

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

Comments: _____

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL
Standardization by: T.CHOI Date: 10-16-97
Instrument Manufacturer: HF SCIENTIFIC Model: DRT-15C
Serial Number: 2654 Calibration Date: 10-16-97

STANDARDIZATION

Time: 0800 Selected Scale: 20 Instrument at Zero: Yes / No Stray Light Response: N/A
NTU of Standard: 0.02 Instrument Reading: 0.02
NTU of Standard: Instrument Reading:

Time: 1430 Selected Scale: 20 Instrument at Zero: Yes / No Stray Light Response: N/A
NTU of Standard: 0.02 Instrument Reading: 0.02
NTU of Standard: Instrument Reading:

Time: Selected Scale: Instrument at Zero: Yes / No Stray Light Response:
NTU of Standard: Instrument Reading:
NTU of Standard: Instrument Reading:

Time: Selected Scale: Instrument at Zero: Yes / No Stray Light Response:
NTU of Standard: Instrument Reading:
NTU of Standard: Instrument Reading:

Time: Selected Scale: Instrument at Zero: Yes / No Stray Light Response:
NTU of Standard: Instrument Reading:
NTU of Standard: Instrument Reading:

Comments:

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL
Standardization by: J. BRENNER Date: 10/15/97
Instrument Manufacturer: H.F. SCIENTIFIC Model: DRT-15C
Serial Number: 2654 Calibration Date: 10/15/97

STANDARDIZATION

Time: 0815 Selected Scale: 20 Instrument at Zero: (Yes) / No Stray Light Response: N/A
NTU of Standard: 0.02 Instrument Reading: 0.02
NTU of Standard: _____ Instrument Reading: _____

Time: 1600 Selected Scale: 20 Instrument at Zero: (Yes) / No Stray Light Response: N/A
NTU of Standard: 0.02 Instrument Reading: 0.02
NTU of Standard: _____ Instrument Reading: _____

Time: _____ Selected Scale: _____ Instrument at Zero: Yes / No Stray Light Response: _____
NTU of Standard: _____ Instrument Reading: _____
NTU of Standard: _____ Instrument Reading: _____

Time: _____ Selected Scale: _____ Instrument at Zero: Yes / No Stray Light Response: _____
NTU of Standard: _____ Instrument Reading: _____
NTU of Standard: _____ Instrument Reading: _____

Time: _____ Selected Scale: _____ Instrument at Zero: Yes / No Stray Light Response: _____
NTU of Standard: _____ Instrument Reading: _____
NTU of Standard: _____ Instrument Reading: _____

Comments: _____

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL

Standardization by: T. CHOI Date: 10-14-97

Instrument Manufacturer: HF SCIENTIFIC Model: DRT-15C

Serial Number: 2654 Calibration Date: 10-14-97

STANDARDIZATION

Time: 1059 Selected Scale: 20 Instrument at Zero: Yes / No Stray Light Response: —

NTU of Standard: 0.02 Instrument Reading: 0.02

NTU of Standard: _____ Instrument Reading: _____

Time: 1610 Selected Scale: 20 Instrument at Zero: Yes / No Stray Light Response: N/A

NTU of Standard: 0.02 Instrument Reading: 0.02

NTU of Standard: _____ Instrument Reading: _____

Time: _____ Selected Scale: _____ Instrument at Zero: Yes / No Stray Light Response: _____

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

Time: _____ Selected Scale: _____ Instrument at Zero: Yes / No Stray Light Response: _____

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

Time: _____ Selected Scale: _____ Instrument at Zero: Yes / No Stray Light Response: _____

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

Comments: _____

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL
Standardization by: T. CHOI Date: 10/13/97
Instrument Manufacturer: HF SCIENTIFIC Model: DRT-15C
Serial Number: 2654 Calibration Date: 10/13/97

STANDARDIZATION

Time: 0815 Selected Scale: 20 Instrument at Zero: Yes / No Stray Light Response: —
NTU of Standard: 0.02 Instrument Reading: 0.02
NTU of Standard: Instrument Reading:

Time: 1645 Selected Scale: 20 Instrument at Zero: Yes / No Stray Light Response: N/A
NTU of Standard: 0.02 Instrument Reading: 0.02
NTU of Standard: Instrument Reading:

Time: Selected Scale: Instrument at Zero: Yes / No Stray Light Response:
NTU of Standard: Instrument Reading:
NTU of Standard: Instrument Reading:

Time: Selected Scale: Instrument at Zero: Yes / No Stray Light Response:
NTU of Standard: Instrument Reading:
NTU of Standard: Instrument Reading:

Time: Selected Scale: Instrument at Zero: Yes / No Stray Light Response:
NTU of Standard: Instrument Reading:
NTU of Standard: Instrument Reading:

Comments:

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL
Standardization by: T. Blaney Date: 10/9/97
Instrument Manufacturer: HF Scientific Model: DRT-15C
Serial Number: 2654 Calibration Date: 10/9/97

STANDARDIZATION

Time: 0755 Selected Scale: 20 Instrument at Zero: (Yes) / No Stray Light Response: N/A
NTU of Standard: 0.02 Instrument Reading: 0.02
NTU of Standard: _____ Instrument Reading: _____

Time: 1130 Selected Scale: 20 Instrument at Zero: (Yes) / No Stray Light Response: N/A
NTU of Standard: 0.02 Instrument Reading: 0.02
NTU of Standard: _____ Instrument Reading: _____

Time: _____ Selected Scale: _____ Instrument at Zero: Yes / No Stray Light Response: _____
NTU of Standard: _____ Instrument Reading: _____
NTU of Standard: _____ Instrument Reading: _____

Time: _____ Selected Scale: _____ Instrument at Zero: Yes / No Stray Light Response: _____
NTU of Standard: _____ Instrument Reading: _____
NTU of Standard: _____ Instrument Reading: _____

Time: _____ Selected Scale: _____ Instrument at Zero: Yes / No Stray Light Response: _____
NTU of Standard: _____ Instrument Reading: _____
NTU of Standard: _____ Instrument Reading: _____

Comments: _____

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TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL

Standardization by: T. BLANEY Date: 10/8/97

Instrument Manufacturer: HF Scientific Model: DRT-15C

Serial Number: 2654 Calibration Date: 10/8/97

STANDARDIZATION

Time: 0745 Selected Scale: 20 Instrument at Zero: (Yes) / No Stray Light Response: N/A

NTU of Standard: 0.02 Instrument Reading: 0.02

NTU of Standard: _____ Instrument Reading: _____

Time: 1312 Selected Scale: 20 Instrument at Zero: ~~Yes~~ / No Stray Light Response: N/A

NTU of Standard: 0.02 Instrument Reading: 0.02

NTU of Standard: _____ Instrument Reading: _____

Time: _____ Selected Scale: _____ Instrument at Zero: Yes / No Stray Light Response: _____

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

Time: _____ Selected Scale: _____ Instrument at Zero: Yes / No Stray Light Response: _____

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

Time: _____ Selected Scale: _____ Instrument at Zero: Yes / No Stray Light Response: _____

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

Comments: _____

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL

Standardization by: T. BLANCY Date: 10/7/97

Instrument Manufacturer: HF SCIENTIFIC Model: ~~2654~~ DRT-15C

Serial Number: 2654 Calibration Date: 10/7/97

STANDARDIZATION

Time: 0800 Selected Scale: 20 Instrument at Zero: (Yes) / No Stray Light Response: N/A

NTU of Standard: 0.02 Instrument Reading: 0.02

NTU of Standard: _____ Instrument Reading: _____

Time: 1605 Selected Scale: 20 Instrument at Zero: (Yes) / No Stray Light Response: N/A

NTU of Standard: 0.02 Instrument Reading: 0.02

NTU of Standard: _____ Instrument Reading: _____

Time: _____ Selected Scale: _____ Instrument at Zero: Yes / No Stray Light Response: _____

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

Time: _____ Selected Scale: _____ Instrument at Zero: Yes / No Stray Light Response: _____

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

Time: _____ Selected Scale: _____ Instrument at Zero: Yes / No Stray Light Response: _____

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

Comments: _____

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL
Standardization by: TCH01 Date: 10-6-97
Instrument Manufacturer: HF SCIENTIFIC Model: DRT-15C
Serial Number: 2654 Calibration Date: 10-6-97

STANDARDIZATION

Time: 1010 Selected Scale: 20 Instrument at Zero: Yes / No Stray Light Response: —
NTU of Standard: 0.02 Instrument Reading: 0.02
NTU of Standard: Instrument Reading:

Time: 1602 Selected Scale: 20 Instrument at Zero: Yes / No Stray Light Response: —
NTU of Standard: 0.02 Instrument Reading: 0.02
NTU of Standard: Instrument Reading:

Time: Selected Scale: Instrument at Zero: Yes / No Stray Light Response:
NTU of Standard: Instrument Reading:
NTU of Standard: Instrument Reading:

Time: Selected Scale: Instrument at Zero: Yes / No Stray Light Response:
NTU of Standard: Instrument Reading:
NTU of Standard: Instrument Reading:

Time: Selected Scale: Instrument at Zero: Yes / No Stray Light Response:
NTU of Standard: Instrument Reading:
NTU of Standard: Instrument Reading:

Comments:

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL
Standardization by: MLOSI Date: 10/2/97
Instrument Manufacturer: HFS Model: DRT 15C
Serial Number: 2654 Calibration Date: 10/2/97

STANDARDIZATION

Time: 0730 Selected Scale: 20 Instrument at Zero: Yes / No Stray Light Response: N/A
NTU of Standard: 0.02 Instrument Reading: 0.02
NTU of Standard: Instrument Reading:

Time: 500 Selected Scale: 20 Instrument at Zero: Yes / No Stray Light Response: N/A
NTU of Standard: 0.02 Instrument Reading: 0.02
NTU of Standard: Instrument Reading:

Time: Selected Scale: Instrument at Zero: Yes / No Stray Light Response:
NTU of Standard: Instrument Reading:
NTU of Standard: Instrument Reading:

Time: Selected Scale: Instrument at Zero: Yes / No Stray Light Response:
NTU of Standard: Instrument Reading:
NTU of Standard: Instrument Reading:

Time: Selected Scale: Instrument at Zero: Yes / No Stray Light Response:
NTU of Standard: Instrument Reading:
NTU of Standard: Instrument Reading:

Comments:

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL

Standardization by: J. Brenner Date: 10/1/97

Instrument Manufacturer: H.F. SCIENTIFIC Model: DRT-15C

Serial Number: 2654 Calibration Date: 10/1/97

STANDARDIZATION

Time: 0825 Selected Scale: 20 Instrument at Zero: (Yes) / No Stray Light Response: N/A

NTU of Standard: 0.02 Instrument Reading: 0.02

NTU of Standard: _____ Instrument Reading: _____

Time: 1535 Selected Scale: 20 Instrument at Zero: (Yes) / No Stray Light Response: N/A

NTU of Standard: 0.02 Instrument Reading: 0.02

NTU of Standard: _____ Instrument Reading: _____

Time: _____ Selected Scale: _____ Instrument at Zero: Yes / No Stray Light Response: _____

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

Time: _____ Selected Scale: _____ Instrument at Zero: Yes / No Stray Light Response: _____

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

Time: _____ Selected Scale: _____ Instrument at Zero: Yes / No Stray Light Response: _____

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

Comments: _____

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL
Standardization by: T.CHOI Date: 9-30-97
Instrument Manufacturer: HF SCIENTIFIC Model: DRT-15C
Serial Number: 2654 Calibration Date: 9-30-97

STANDARDIZATION

Time: 0812 Selected Scale: 20 Instrument at Zero: (Yes) / No Stray Light Response: N/A
NTU of Standard: 0.02 Instrument Reading: 0.02
NTU of Standard: _____ Instrument Reading: _____

Time: 1502 Selected Scale: 20 Instrument at Zero: (Yes) / No Stray Light Response: N/A
NTU of Standard: 0.02 Instrument Reading: 0.02
NTU of Standard: _____ Instrument Reading: _____

Time: _____ Selected Scale: _____ Instrument at Zero: Yes / No Stray Light Response: _____
NTU of Standard: _____ Instrument Reading: _____
NTU of Standard: _____ Instrument Reading: _____

Time: _____ Selected Scale: _____ Instrument at Zero: Yes / No Stray Light Response: _____
NTU of Standard: _____ Instrument Reading: _____
NTU of Standard: _____ Instrument Reading: _____

Time: _____ Selected Scale: _____ Instrument at Zero: Yes / No Stray Light Response: _____
NTU of Standard: _____ Instrument Reading: _____
NTU of Standard: _____ Instrument Reading: _____

Comments: _____

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL
Standardization by: MLOSI Date: 9/29/97
Instrument Manufacturer: HFS Model: DRT 15C
Serial Number: 2654 Calibration Date: 9/29/97

STANDARDIZATION

Time: 0655 Selected Scale: 20 Instrument at Zero: ~~Yes~~ / No Stray Light Response: N/A
NTU of Standard: 0.02 Instrument Reading: 0.02
NTU of Standard: Instrument Reading:

Time: 1505 Selected Scale: 20 Instrument at Zero: ~~Yes~~ / No Stray Light Response: –
NTU of Standard: 0.02 Instrument Reading: 0.02
NTU of Standard: Instrument Reading:

Time: Selected Scale: Instrument at Zero: Yes / No Stray Light Response:
NTU of Standard: Instrument Reading:
NTU of Standard: Instrument Reading:

Time: Selected Scale: Instrument at Zero: Yes / No Stray Light Response:
NTU of Standard: Instrument Reading:
NTU of Standard: Instrument Reading:

Time: Selected Scale: Instrument at Zero: Yes / No Stray Light Response:
NTU of Standard: Instrument Reading:
NTU of Standard: Instrument Reading:

Comments:

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TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL
Standardization by: MLOSI Date: 9/25/97
Instrument Manufacturer: HFS Model: DRT 15C
Serial Number: 2654 Calibration Date: 9/25/97

STANDARDIZATION

Time: 0830 Selected Scale: 20 Instrument at Zero: Yes / No Stray Light Response: N/A
NTU of Standard: 0.02 Instrument Reading: 0.02
NTU of Standard: Instrument Reading:

Time: 1640 Selected Scale: 20 Instrument at Zero: Yes / No Stray Light Response: N/A
NTU of Standard: 0.02 Instrument Reading: 0.02
NTU of Standard: Instrument Reading:

Time: Selected Scale: Instrument at Zero: Yes / No Stray Light Response:
NTU of Standard: Instrument Reading:
NTU of Standard: Instrument Reading:

Time: Selected Scale: Instrument at Zero: Yes / No Stray Light Response:
NTU of Standard: Instrument Reading:
NTU of Standard: Instrument Reading:

Time: Selected Scale: Instrument at Zero: Yes / No Stray Light Response:
NTU of Standard: Instrument Reading:
NTU of Standard: Instrument Reading:

Comments:

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL
Standardization by: MLOSI Date: 9/24/97
Instrument Manufacturer: HFS Model: DRT 15C
Serial Number: 2654 Calibration Date: 9/24/97

STANDARDIZATION

Time: 0740 Selected Scale: 20 Instrument at Zero: Yes / No Stray Light Response: NA
NTU of Standard: 0.02 Instrument Reading: 0.02
NTU of Standard: Instrument Reading:

Time: 1445 Selected Scale: 20 Instrument at Zero: Yes / No Stray Light Response: N/A
NTU of Standard: 0.02 Instrument Reading: 0.02
NTU of Standard: Instrument Reading:

Time: Selected Scale: Instrument at Zero: Yes / No Stray Light Response:
NTU of Standard: Instrument Reading:
NTU of Standard: Instrument Reading:

Time: Selected Scale: Instrument at Zero: Yes / No Stray Light Response:
NTU of Standard: Instrument Reading:
NTU of Standard: Instrument Reading:

Time: Selected Scale: Instrument at Zero: Yes / No Stray Light Response:
NTU of Standard: Instrument Reading:
NTU of Standard: Instrument Reading:

Comments:

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL
Standardization by: MLOSI Date: 9/23/97
Instrument Manufacturer: HFS Model: DRT 15C
Serial Number: 2054 Calibration Date: 9/23/97

STANDARDIZATION

Time: 0735 Selected Scale: 20 Instrument at Zero: Yes / No Stray Light Response: N/A
NTU of Standard: 0.02 Instrument Reading: 0.02
NTU of Standard: Instrument Reading:

Time: 1415 Selected Scale: 20 Instrument at Zero: Yes / No Stray Light Response: N/A
NTU of Standard: 0.02 Instrument Reading: 0.02
NTU of Standard: Instrument Reading:

Time: Selected Scale: Instrument at Zero: Yes / No Stray Light Response:
NTU of Standard: Instrument Reading:
NTU of Standard: Instrument Reading:

Time: Selected Scale: Instrument at Zero: Yes / No Stray Light Response:
NTU of Standard: Instrument Reading:
NTU of Standard: Instrument Reading:

Time: Selected Scale: Instrument at Zero: Yes / No Stray Light Response:
NTU of Standard: Instrument Reading:
NTU of Standard: Instrument Reading:

Comments:

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL

Standardization by: T. Elliot Date: 9-22-97

Instrument Manufacturer: HF SCIENTIFIC Model: DRT-15C

Serial Number: 2654 Calibration Date: 9-22-97

STANDARDIZATION

Time: 0630 Selected Scale: 20 Instrument at Zero: Yes / No Stray Light Response: —

NTU of Standard: 0.02 Instrument Reading: 0.02

NTU of Standard: _____ Instrument Reading: _____

Time: _____ Selected Scale: _____ Instrument at Zero: Yes / No Stray Light Response: _____

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

Time: _____ Selected Scale: _____ Instrument at Zero: Yes / No Stray Light Response: _____

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

Time: _____ Selected Scale: _____ Instrument at Zero: Yes / No Stray Light Response: _____

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

Time: _____ Selected Scale: _____ Instrument at Zero: Yes / No Stray Light Response: _____

NTU of Standard: _____ Instrument Reading: _____

NTU of Standard: _____ Instrument Reading: _____

Comments: _____

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL
Standardization by: TC401 Date: 9-19-97
Instrument Manufacturer: HF SCIENTIFIC Model: DRT-15C
Serial Number: 2654 Calibration Date: 9-19-97

STANDARDIZATION

Time: 0820 Selected Scale: 20 Instrument at Zero: Yes / No Stray Light Response: —
NTU of Standard: 0.02 Instrument Reading: 0.02
NTU of Standard: Instrument Reading:

Time: Selected Scale: Instrument at Zero: Yes / No Stray Light Response:
NTU of Standard: Instrument Reading:
NTU of Standard: Instrument Reading:

Time: Selected Scale: Instrument at Zero: Yes / No Stray Light Response:
NTU of Standard: Instrument Reading:
NTU of Standard: Instrument Reading:

Time: Selected Scale: Instrument at Zero: Yes / No Stray Light Response:
NTU of Standard: Instrument Reading:
NTU of Standard: Instrument Reading:

Time: Selected Scale: Instrument at Zero: Yes / No Stray Light Response:
NTU of Standard: Instrument Reading:
NTU of Standard: Instrument Reading:

Comments:

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL
Standardization by: MLOSI Date: 9/18/97
Instrument Manufacturer: HFS Model: DRT 15C
Serial Number: 2654 Calibration Date: 9/18/97

STANDARDIZATION

Time: 0810 Selected Scale: 20 Instrument at Zero: Yes / No Stray Light Response: N/A
NTU of Standard: 0.02 Instrument Reading: 0.02
NTU of Standard: Instrument Reading:

Time: 1438 Selected Scale: 20 Instrument at Zero: Yes / No Stray Light Response: N/A
NTU of Standard: 0.02 Instrument Reading: 0.02
NTU of Standard: Instrument Reading:

Time: Selected Scale: Instrument at Zero: Yes / No Stray Light Response:
NTU of Standard: Instrument Reading:
NTU of Standard: Instrument Reading:

Time: Selected Scale: Instrument at Zero: Yes / No Stray Light Response:
NTU of Standard: Instrument Reading:
NTU of Standard: Instrument Reading:

Time: Selected Scale: Instrument at Zero: Yes / No Stray Light Response:
NTU of Standard: Instrument Reading:
NTU of Standard: Instrument Reading:

Comments:

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TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL
Standardization by: MLOSI Date: 9/17/97
Instrument Manufacturer: HFS Model: DRT-15C
Serial Number: 2654 Calibration Date: 9/17/97

STANDARDIZATION

Time: 0811 Selected Scale: 20 Instrument at Zero: Yes / No Stray Light Response: N/A
NTU of Standard: 0.02 Instrument Reading: 0.02
NTU of Standard: Instrument Reading:

Time: 1405 Selected Scale: 20 Instrument at Zero: Yes / No Stray Light Response: N/A
NTU of Standard: 0.02 Instrument Reading: 0.02
NTU of Standard: Instrument Reading:

Time: Selected Scale: Instrument at Zero: Yes / No Stray Light Response:
NTU of Standard: Instrument Reading:
NTU of Standard: Instrument Reading:

Time: Selected Scale: Instrument at Zero: Yes / No Stray Light Response:
NTU of Standard: Instrument Reading:
NTU of Standard: Instrument Reading:

Time: Selected Scale: Instrument at Zero: Yes / No Stray Light Response:
NTU of Standard: Instrument Reading:
NTU of Standard: Instrument Reading:

Comments:

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL

Standardization by: T.CHOI Date: 9-16-97

Instrument Manufacturer: HF SCIENTIFIC Model: DRT-15C

Serial Number: 2654 Calibration Date: 9-16-97

STANDARDIZATION

Time: 0827 Selected Scale: 20 Instrument at Zero: Yes / No Stray Light Response: —

NTU of Standard: 0.02 Instrument Reading: 0.02

NTU of Standard: Instrument Reading:

Time: 1417 Selected Scale: 20 Instrument at Zero: Yes / No Stray Light Response: NA

NTU of Standard: 0.02 Instrument Reading: 0.02

NTU of Standard: Instrument Reading:

Time: Selected Scale: Instrument at Zero: Yes / No Stray Light Response:

NTU of Standard: Instrument Reading:

NTU of Standard: Instrument Reading:

Time: Selected Scale: Instrument at Zero: Yes / No Stray Light Response:

NTU of Standard: Instrument Reading:

NTU of Standard: Instrument Reading:

Time: Selected Scale: Instrument at Zero: Yes / No Stray Light Response:

NTU of Standard: Instrument Reading:

NTU of Standard: Instrument Reading:

Comments:

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TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL
Standardization by: TCHOI Date: 9-15-97
Instrument Manufacturer: HF SCIENTIFIC Model: DRT-15C
Serial Number: 2654 Calibration Date: 9-15-97

STANDARDIZATION

Time: 0751 Selected Scale: 20 Instrument at Zero: Yes / No Stray Light Response: N/A
NTU of Standard: 0.02 Instrument Reading: 0.02
NTU of Standard: _____ Instrument Reading: _____

Time: 1413 Selected Scale: 20 Instrument at Zero: Yes / No Stray Light Response: N/A
NTU of Standard: 0.02 Instrument Reading: 0.02
NTU of Standard: _____ Instrument Reading: _____

Time: _____ Selected Scale: _____ Instrument at Zero: Yes / No Stray Light Response: _____
NTU of Standard: _____ Instrument Reading: _____
NTU of Standard: _____ Instrument Reading: _____

Time: _____ Selected Scale: _____ Instrument at Zero: Yes / No Stray Light Response: _____
NTU of Standard: _____ Instrument Reading: _____
NTU of Standard: _____ Instrument Reading: _____

Time: _____ Selected Scale: _____ Instrument at Zero: Yes / No Stray Light Response: _____
NTU of Standard: _____ Instrument Reading: _____
NTU of Standard: _____ Instrument Reading: _____

Comments: _____

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL

Standardization by: MLOSI Date: 9/12/97

Instrument Manufacturer: HFS Model: DRT 15C

Serial Number: 2654 Calibration Date: 9/12/97

STANDARDIZATION

Time: 0828 Selected Scale: 20 Instrument at Zero: Yes / No Stray Light Response: N/A

NTU of Standard: 0.02 Instrument Reading: 0.02

NTU of Standard: Instrument Reading:

Time: 1417 Selected Scale: 20 Instrument at Zero: Yes / No Stray Light Response: NA

NTU of Standard: 0.02 Instrument Reading: 0.02

NTU of Standard: Instrument Reading:

Time: Selected Scale: Instrument at Zero: Yes / No Stray Light Response:

NTU of Standard: Instrument Reading:

NTU of Standard: Instrument Reading:

Time: Selected Scale: Instrument at Zero: Yes / No Stray Light Response:

NTU of Standard: Instrument Reading:

NTU of Standard: Instrument Reading:

Time: Selected Scale: Instrument at Zero: Yes / No Stray Light Response:

NTU of Standard: Instrument Reading:

NTU of Standard: Instrument Reading:

Comments:

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APPENDIX D

LABORATORY ANALYTICAL REPORTS
AND
CHAIN-OF-CUSTODY FORMS

ANALYTICAL RESULTS INDEX

GROUNDWATER SAMPLES

Well Number	Report Number	Sample Number	Tab Number	Date Sampled
MW-1	38244	MW-973-01	25	10/28/97
MW-1	38244	MW-973-01MS	25	10/28/97
MW-1	38244	MW-973-01MSD	25	10/28/97
MW-3-1	37145	MW-973-02	2	9/15/97
MW-3-2	37145	MW-973-03	2	9/15/97
MW-3-3	37115	MW-973-04	1	9/12/97
MW-3-4	37115	MW-973-05	1	9/12/97
MW-3-5	37115	MW-973-06	1	9/12/97
MW-4-1	37424	MW-973-07	8	9/24/97
MW-4-2	37424	MW-973-08	8	9/24/97
MW-4-2 Dup	37424	MW-973-09	8	9/24/97
MW-4-3	37424	MW-973-10	8	9/24/97
MW-4-4	37424	MW-973-11	8	9/24/97
MW-4-5	37424	MW-973-12	8	9/24/97
MW-4-5	37424	MW-973-12MS	8	9/24/97
MW-4-5	37424	MW-973-12MSD	8	9/24/97
MW-5	38223	MW-973-13	24	10/27/97
MW-6	38124	MW-973-14	23	10/22/97
MW-7	38292	MW-973-15	25	10/29/97
MW-8	38124	MW-973-16	23	10/22/97
MW-9	38244	MW-973-17	25	10/28/97
MW-10	38223	MW-973-18	24	10/27/97
MW-10 Dup	38223	MW-973-19	24	10/27/97
MW-11-1	37680	MW-973-20	13	10/2/97
MW-11-2	37638	MW-973-21	12	10/1/97
MW-11-2	37638	MW-973-21MS	12	10/1/97
MW-11-2	37638	MW-973-21MSD	12	10/1/97
MW-11-3	37638	MW-973-22	12	10/1/97
MW-11-4	37638	MW-973-23	12	10/1/97
MW-11-5	37638	MW-973-24	12	10/1/97
MW-12-1	ns	MW-973-25	n/a	n/a
MW-12-1 Dup	ns	MW-973-26	n/a	n/a
MW-12-2	37680	MW-973-27	13	10/2/97
MW-12-3	37680	MW-973-28	13	10/2/97
MW-12-4	37680	MW-973-29	13	10/2/97
MW-12-5	37680	MW-973-30	13	10/2/97
MW-13	37487	MW-973-31	9	9/25/97
MW-13 Dup	37487	MW-973-32	9	9/25/97
MW-14-1	37487	MW-973-33	9	9/25/97
MW-14-2	37487	MW-973-34	9	9/25/97
MW-14-3	37487	MW-973-35	9	9/25/97
MW-14-4	37559	MW-973-36	10	9/29/97
MW-14-5	37487	MW-973-37	9	9/25/97
MW-15	38223	MW-973-38	24	10/27/97
MW-16	ns	MW-973-39	n/a	n/a

ANALYTICAL RESULTS INDEX

GROUNDWATER SAMPLES

Well Number	Report Number	Sample Number	Tab Number	Date Sampled
MW-17-1	37169	MW-973-40	6	9/16/97
MW-17-2	37169	MW-973-41	6	9/16/97
MW-17-2	37169	MW-973-41MS	6	9/16/97
MW-17-2	37169	MW-973-41MSD	6	9/16/97
MW-17-3	37169	MW-973-42	6	9/16/97
MW-17-4	37145	MW-973-43	2	9/15/97
MW-17-5	37278	MW-973-44	3	9/18/97
MW-18-1	ns	MW-973-45	n/a	n/a
MW-18-2	37387	MW-973-46	7	9/23/97
MW-18-3	37387	MW-973-47	7	9/23/97
MW-18-4	37387	MW-973-48	7	9/23/97
MW-18-5	37387	MW-973-49	7	9/23/97
MW-18-5	37387	MW-973-49MS	7	9/23/97
MW-18-5	37387	MW-973-49MSD	7	9/23/97
MW-19-1	37332	MW-973-50	4	9/19/97
MW-19-2	37349	MW-973-51	5	9/22/97
MW-19-3	37332	MW-973-52	4	9/19/97
MW-19-3	37332	MW-973-52MS	4	9/19/97
MW-19-3	37332	MW-973-52MSD	4	9/19/97
MW-19-4	37278	MW-973-53	3	9/18/97
MW-19-5	37278	MW-973-54	3	9/18/97
MW-20-1	ns	MW-973-55	n/a	n/a
MW-20-2	37349	MW-973-56	5	9/22/97
MW-20-3	37349	MW-973-57	5	9/22/97
MW-20-4	37349	MW-973-58	5	9/22/97
MW-20-5	37349	MW-973-59	5	9/22/97
MW-21-1	ns	MW-973-60	n/a	n/a
MW-21-2	37559	MW-973-61	10	9/29/97
MW-21-2	37559	MW-973-61MS	10	9/29/97
MW-21-2	37559	MW-973-61MSD	10	9/29/97
MW-21-3	37638	MW-973-62	12	10/1/97
MW-21-4	37559	MW-973-63	10	9/29/97
MW-21-5	37589	MW-973-64	11	9/30/97
MW-22-1	37948	MW-973-65	20	10/15/97
MW-22-2	37893	MW-973-66	19	10/14/97
MW-22-2	37893	MW-973-66MS	19	10/14/97
MW-22-2	37893	MW-973-66MSD	19	10/14/97
MW-22-3	37863	MW-973-67	18	10/13/97
MW-22-4	37812	MW-973-68	17	10/9/97
MW-22-5	37812	MW-973-69	17	10/9/97
MW-23-1	38124	MW-973-70	23	10/22/97
MW-23-1	38124	MW-973-70MS	23	10/22/97
MW-23-1	38124	MW-973-70MSD	23	10/22/97
MW-23-2	37962	MW-973-71	21	10/16/97
MW-23-3	38087	MW-973-72	22	10/21/97

ANALYTICAL RESULTS INDEX

GROUNDWATER SAMPLES

Well Number	Report Number	Sample Number	Tab Number	Date Sampled
MW-23-4	38087	MW-973-73	22	10/21/97
MW-23-5	38087	MW-973-74	22	10/21/97
MW-24-1	37758	MW-973-75	15	10/7/97
MW-24-1	37758	MW-973-75MS	15	10/7/97
MW-24-1	37758	MW-973-75MSD	15	10/7/97
MW-24-2	37793	MW-973-76	16	10/8/97
MW-24-3	37793	MW-973-77	16	10/8/97
MW-24-4	37721	MW-973-78	14	10/6/97
MW-24-5	37721	MW-973-79	14	10/6/97
MW-17-3*	37387	MW-973-00*	7	9/23/97

*Resample for Cr (VI)

ns = not sampled, no water over screened interval

n/a = not applicable

ANALYTICAL RESULTS INDEX

QA/QC SAMPLE BLANKS

Sample Type	Report Number	Sample Number	Tab Number	Date Sampled
TB	37115	MW-973-80	1	9/12/97
EB	37115	MW-973-81	1	9/12/97
TB	37145	MW-973-82	2	9/15/97
EB	37145	MW-973-83	2	9/15/97
TB	37169	MW-973-84	6	9/16/97
EB	37169	MW-973-85	6	9/16/97
TB	37278	MW-973-86	3	9/18/97
EB	37278	MW-973-87	3	9/18/97
TB	37332	MW-973-88	4	9/19/97
EB	37332	MW-973-89	4	9/19/97
TB	37349	MW-973-90	5	9/22/97
EB	37349	MW-973-91	5	9/22/97
TB	37387	MW-973-92	7	9/23/97
EB	37387	MW-973-93	7	9/23/97
TB	37424	MW-973-94	8	9/24/97
EB	37424	MW-973-95	8	9/24/97
TB	37487	MW-973-96	9	9/25/97
EB	37487	MW-973-97	9	9/25/97
TB	37559	MW-973-98	10	9/29/97
EB	37559	MW-973-99	10	9/29/97
TB	37589	MW-973-100	11	9/30/97
EB	37589	MW-973-101	11	9/30/97
TB	37638	MW-973-102	12	10/1/97
EB	37638	MW-973-103	12	10/1/97
TB	37680	MW-973-104	13	10/2/97
EB	37680	MW-973-105	13	10/2/97
TB	37721	MW-973-106	14	10/6/97
EB	37721	MW-973-107	14	10/6/97
TB	37758	MW-973-108	15	10/7/97
EB	37758	MW-973-109	15	10/7/97
TB	37793	MW-973-110	16	10/8/97
EB	37793	MW-973-111	16	10/8/97
TB	37812	MW-973-112	17	10/9/97
EB	37812	MW-973-113	17	10/9/97
TB	37863	MW-973-114	18	10/13/97
EB	37863	MW-973-115	18	10/13/97
TB	37893	MW-973-116	19	10/14/97
EB	37893	MW-973-117	19	10/14/97
TB	37948	MW-973-118	20	10/15/97
EB	37948	MW-973-119	20	10/15/97
TB	37962	MW-973-120	21	10/16/97
EB	37962	MW-973-121	21	10/16/97
TB	38087	MW-973-122	22	10/21/97
EB	38087	MW-973-123	22	10/21/97
TB	38124	MW-973-124	23	10/22/97

ANALYTICAL RESULTS INDEX

QA/QC SAMPLE BLANKS

Sample Type	Report Number	Sample Number	Tab Number	Date Sampled
EB	38124	MW-973-125	23	10/22/97
TB	38223	MW-973-126	24	10/27/97
TB	38244	MW-973-127	25	10/28/97
TB	38292	MW-973-128	25	10/29/97

EB = Equipment Blank
TB= Trip Blank

ANALYTICAL RESULTS INDEX

TRIBUTYL TIN RESULTS

Well Number	Report Number	Sample Number	Tab Number	Date Sampled
MW-8	38124	MW-973-16	23	10/22/97

November 3, 1997

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

Attention: Mark Cutler

Re: Report # 37115(MW-973-80, -81, -6, -5, -4)

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):
(As-GF) QC batch 68025: Arsenic MSD recovery exceeds the Limits 0f 85-115 at 127% recovery. The MS and a spike addition on the same sample had acceptable recoveries. The RPD of the MS/MSD was 12%, within acceptable limits. The sample spiked was not a part of this days sampling event.

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

Method blanks with compounds detected:
NONE

Other Comments:
Chloroform was detected in sample ID: MW-973-81, -4
Carbon Tetrachloride was detected in sample ID: MW-973-4
Trichloroethylene (TCE) was detected in sample ID: Mw-973-4
Perchlorate was detected in sample ID: MW-973-4

TIC
A VOC of unknown identification (RT= 3:45) was detected in sample ID: MW-973-81

Sincerely,

Debbie Frank
Project Manager

cc: Judy Novelly (JPL)

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Laboratory Report #37115

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

Samples Received
12-sep-1997 16:57:40

MW-973-80 (970912115) Sampled on 09/12/97

Regulated VOCs plus Lists 1&3

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/17/97	66907	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	09/17/97	66907	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	09/17/97	66907	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Laboratory
Report
#37115

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/17/97	66907	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	09/17/97	66907	(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	105	% Rec		
			(Surrogate)	Toluene-d8	102	% Rec		

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Laboratory Report #37115

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-973-81 (970912116)			**Sampled on 09/12/97**					
10/07/97	10/21/97	68025	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	10/04/97	67291	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
10/07/97	10/17/97	68333	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	09/13/97	66375	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
10/07/97	10/17/97	68337	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
			Regulated VOCs plus Lists 1&3					
	09/17/97	66907	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	09/17/97	66907	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	09/17/97	66907	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1

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Laboratory
Report
#37115

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/17/97	66907	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Chloroform (Trichloromethane)	1.5	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	Unknown RT=3.45	1.7	ug/L		1
			(Surrogate)	1,2-Dichloroethane-d4	99	% Rec		
			(Surrogate)	4-Bromofluorobenzene	97	% Rec		

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
			(Surrogate)	Toluene-d8	104	% Rec		
MW-973-6 (970912117)			**Sampled on 09/12/97**					
	09/23/97	67015	(ML/S2320B)	Alkalinity	120	mg/l	2.0	1
	10/13/97		(ML/SM1040)	Anion Sum	3.19	meq/l	0.0010	1
10/07/97	10/21/97	68025	(S3113B/E200.9)	Arsenic, Total, GF	0.010	mg/l	0.005	1
	10/08/97	67586	(ML/S3111B)	Calcium, Flame AA	8.6	mg/l	1.0	1
	10/31/97		(ML/SM1040)	Cation Sum	3.42	meq/l	0.0010	1
	09/12/97	66555	(ML/EPA 300)	Chloride	9.6	mg/l	1.0	1
	10/04/97	67291	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	10/09/97		(ML/S2320-B)	Carbonate as CO3, Calculated	0.189	mg/l	0.0010	1
10/07/97	10/17/97	68333	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	09/13/97	66375	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	09/17/97		(ML/S2510B)	Specific Conductance	365	umho/cm	4.0	1
10/07/97	10/17/97	68335	(EPA/ML 200.8)	Iron, Total, ICAP/MS	ND	ug/l	100	1
	10/09/97		(ML/S2320B)	Bicarbonate as HCO3,calculated	146	mg/l	0.0010	1
	10/08/97	67578	(ML/S3111B)	Potassium, Flame AA	1.2	mg/l	1.0	1
	10/08/97	67585	(ML/S3111B)	Magnesium, Flame AA	1.1	mg/l	1.0	1
	10/08/97	67580	(ML/S3111B)	Sodium, Flame AA	66	mg/l	1.0	1
	09/12/97	66563	(ML/EPA 300.0)	Nitrate-N by IC	ND	mg/l	0.10	1
10/07/97	10/17/97	68337	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	09/16/97		(ML/SM 4500H)	Lab pH	8.8	Units	0.0010	1
	09/12/97	66564	(ML/EPA 300.0)	Sulfate	25	mg/l	2.0	1
	09/17/97	66549	(ML/S2540C)	Total Dissolved Solid (TDS)	230	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	09/17/97	66907	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1

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Laboratory
Report
#37115

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/17/97	66907	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	09/17/97	66907	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	09/17/97	66907	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/17/97	66907	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	112	% Rec		
			(Surrogate)	4-Bromofluorobenzene	91	% Rec		
			(Surrogate)	Toluene-d8	103	% Rec		
MW-973-5 (970912118)			**Sampled on 09/12/97**					
	09/23/97	67015	(ML/S2320B)	Alkalinity	140	mg/l	2.0	1
	10/13/97		(ML/SM1040)	Anion Sum	3.41	meq/l	0.0010	1
10/07/97	10/21/97	68025	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	10/08/97	67586	(ML/S3111B)	Calcium, Flame AA	17	mg/l	1.0	1
	10/14/97		(ML/SM1040)	Cation Sum	3.55	meq/l	0.0010	1
	09/12/97	66555	(ML/EPA 300)	Chloride	9.6	mg/l	1.0	1
	10/04/97	67291	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	10/09/97		(ML/S2320-B)	Carbonate as CO3, Calculated	4.37	mg/l	0.0010	1
10/07/97	10/17/97	68333	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	09/13/97	66375	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	09/17/97		(ML/S2510B)	Specific Conductance	360	umho/cm	4.0	1
10/07/97	10/17/97	68335	(EPA/ML 200.8)	Iron, Total, ICAP/MS	300	ug/l	100	1
	10/09/97		(ML/S2320B)	Bicarbonate as HCO3,calculated	169	mg/l	0.0010	1
	10/08/97	67578	(ML/S3111B)	Potassium, Flame AA	2.1	mg/l	1.0	1
	10/08/97	67585	(ML/S3111B)	Magnesium, Flame AA	7.9	mg/l	1.0	1
	10/08/97	67580	(ML/S3111B)	Sodium, Flame AA	46	mg/l	1.0	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/12/97	66563	(ML/EPA 300.0)	Nitrate-N by IC	0.4	mg/l	0.10	1
10/07/97	10/17/97	68337	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	09/16/97		(ML/SM 4500H)	Lab pH	8.6	Units	0.0010	1
	09/12/97	66564	(ML/EPA 300.0)	Sulfate	15	mg/l	2.0	1
	09/17/97	66549	(ML/S2540C)	Total Dissolved Solid (TDS)	220	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	09/17/97	66907	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	09/17/97	66907	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	09/17/97	66907	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/17/97	66907	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	117	% Rec		
			(Surrogate)	4-Bromofluorobenzene	93	% Rec		
			(Surrogate)	Toluene-d8	102	% Rec		

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-973-4 (970912119)			**Sampled on 09/12/97**					
	09/23/97	67015	(ML/S2320B)	Alkalinity	135	mg/l	2.0	1
	10/13/97		(ML/SM1040)	Anion Sum	3.67	meq/l	0.0010	1
10/07/97	10/21/97	68025	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	10/08/97	67586	(ML/S3111B)	Calcium, Flame AA	21	mg/l	1.0	1
	10/14/97		(ML/SM1040)	Cation Sum	3.73	meq/l	0.0010	1
	09/12/97	66555	(ML/EPA 300)	Chloride	20	mg/l	1.0	1
	10/04/97	67291	(MOD/EPA 300)	Perchlorate	13	ug/l	4.0	1
	10/09/97		(ML/S2320-B)	Carbonate as CO3, Calculated	6.64	mg/l	0.0010	1
10/07/97	10/17/97	68333	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	09/13/97	66375	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	09/17/97		(ML/S2510B)	Specific Conductance	380	umho/cm	4.0	1
10/07/97	10/17/97	68335	(EPA/ML 200.8)	Iron, Total, ICAP/MS	660	ug/l	100	1
	10/09/97		(ML/S2320B)	Bicarbonate as HCO3,calculated	162	mg/l	0.0010	1
	10/08/97	67578	(ML/S3111B)	Potassium, Flame AA	2.9	mg/l	1.0	1
	10/08/97	67585	(ML/S3111B)	Magnesium, Flame AA	11	mg/l	1.0	1
	10/08/97	67580	(ML/S3111B)	Sodium, Flame AA	39	mg/l	1.0	1
	09/12/97	66563	(ML/EPA 300.0)	Nitrate-N by IC	0.2	mg/l	0.10	1
10/07/97	10/17/97	68337	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	09/16/97		(ML/SM 4500H)	Lab pH	8.8	Units	0.0010	1
	09/12/97	66564	(ML/EPA 300.0)	Sulfate	19	mg/l	2.0	1
	09/17/97	66549	(ML/S2540C)	Total Dissolved Solid (TDS)	230	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	09/17/97	66907	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/17/97	66907	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	09/17/97	66907	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	09/17/97	66907	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Carbon Tetrachloride	1.2	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Chloroform (Trichloromethane)	1.6	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/17/97	66907	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Trichloroethylene (TCE)	0.5	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	107	% Rec		
			(Surrogate)	4-Bromofluorobenzene	95	% Rec		
			(Surrogate)	Toluene-d8	104	% Rec		

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Report
Comments
#37115

Group Comments

(As-GF) Sample 970916207 was spiked for MS/MSD. The MSD recovery was high bias, ou side the 85-115% limit. The RPD was 12% and a spike addition recovery was 106%. The high bias recovery does not effect the spiked sample result, since it was found to be ND. No further action was taken.

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Foster Wheeler Environmental, Inc

QC Batch #66375 Hexavalent chromium (Cr VI)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Hexavalent chromium (Cr VI)	0.050	0.0488	97.6	(78.00 - 118.00)	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.0504	100.8	(78.00 - 118.00)	3.2
MBLK	Hexavalent chromium (Cr VI)	ND				
MS	Hexavalent chromium (Cr VI)	0.050	0.0472	94.4	(80.00 - 120.00)	
MSD	Hexavalent chromium (Cr VI)	0.050	0.0456	91.2	(80.00 - 120.00)	3.4

QC Batch #66549 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Total Dissolved Solid (TDS)	175	176	100.6	(85.00 - 115.00)	
LCS2	Total Dissolved Solid (TDS)	700	658	94.0	(85.00 - 115.00)	
MBLK	Total Dissolved Solid (TDS)	ND				

QC Batch #66555 Chloride

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Chloride	25	24.6	98.4	(90.00 - 110.00)	
LCS2	Chloride	25	24.6	98.4	(90.00 - 110.00)	0.00
MBLK	Chloride	ND				
MS	Chloride	25	25.1	100.4	(80.00 - 120.00)	
MSD	Chloride	25	25.1	100.4	(80.00 - 120.00)	0.00

QC Batch #66563 Nitrate-N by IC

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Nitrate-N by IC	2.5	2.42	96.8	(90.00 - 110.00)	
LCS2	Nitrate-N by IC	2.5	2.42	96.8	(90.00 - 110.00)	0.00
MBLK	Nitrate-N by IC	ND				
MS	Nitrate-N by IC	2.5	2.42	96.8	(90.00 - 110.00)	
MSD	Nitrate-N by IC	2.5	2.42	96.8	(90.00 - 110.00)	0.00

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

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Foster Wheeler Environmental, Inc
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QC Batch #66564 Sulfate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Sulfate	50	48.5	97.0	(90.00 - 110.00)	
LCS2	Sulfate	50	48.5	97.0	(90.00 - 110.00)	0.00
MBLK	Sulfate	ND				
MS	Sulfate	50	50.8	101.6	(70.00 - 130.00)	
MSD	Sulfate	50	50.8	101.6	(70.00 - 130.00)	0.00

QC Batch #66907 Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	4	3.74	93.5	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	4.07	101.8	(70.00 - 130.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	3.87	96.8	(70.00 - 130.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	3.96	99.0	(70.00 - 130.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	3.70	92.5	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MBLK	1,1-Dichloropropene	ND				
MBLK	1,2,3-Trichlorobenzene	ND				
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	4	3.83	95.8	(70.00 - 130.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	4	3.89	97.2	(70.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	4	3.59	89.8	(70.00 - 130.00)	
MBLK	1,2-Dichloropropane	ND				
MBLK	1,3,5-Trimethylbenzene	ND				

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

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LCS1	1,3-Dichloropropane	8	7.58	94.8	(70.00 - 130.00)
MBLK	1,3-Dichloropropane	ND			
MBLK	2,2-Dichloropropane	ND			
MBLK	2-Butanone (MEK)	ND			
MBLK	2-Chloroethylvinylether	ND			
MBLK	4-Methyl-2-Pentanone (MIBK)	ND			
LCS1	Benzene	4	3.56	89.0	(70.00 - 130.00)
MBLK	Benzene	ND			
MBLK	Bromobenzene	ND			
MBLK	Bromochloromethane	ND			
LCS1	Bromodichloromethane	4	3.91	97.8	(70.00 - 130.00)
MBLK	Bromodichloromethane	ND			
LCS1	Bromoform	4	3.98	99.5	(70.00 - 130.00)
MBLK	Bromoform	ND			
MBLK	Bromomethane (Methyl Bromide)	ND			
LCS1	Carbon Tetrachloride	4	3.53	88.2	(70.00 - 130.00)
MBLK	Carbon Tetrachloride	ND			
LCS1	Chlorobenzene	4	3.94	98.5	(70.00 - 130.00)
MBLK	Chlorobenzene	ND			
LCS1	Chlorodibromomethane	4	3.79	94.8	(70.00 - 130.00)
MBLK	Chlorodibromomethane	ND			
MBLK	Chloroethane	ND			
LCS1	Chloroform (Trichloromethane)	4	3.94	98.5	(70.00 - 130.00)
MBLK	Chloroform (Trichloromethane)	ND			
MBLK	Chloromethane(Methyl Chloride)	ND			
MBLK	Dibromomethane	ND			
MBLK	Dichlorodifluoromethane	ND			
LCS1	Dichloromethane	4	3.84	96.0	(70.00 - 130.00)
MBLK	Dichloromethane	ND			
LCS1	Ethyl benzene	4	3.89	97.2	(70.00 - 130.00)
MBLK	Ethyl benzene	ND			
LCS1	Fluorotrichloromethane-Freon11	2	2.51	125.5	(70.00 - 130.00)
MBLK	Fluorotrichloromethane-Freon11	ND			
MBLK	Hexachlorobutadiene	ND			
MBLK	Isopropylbenzene	ND			
MBLK	Naphthalene	ND			
LCS1	Styrene	4	3.79	94.8	(70.00 - 130.00)

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

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QC Batch #66564 Sulfate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Sulfate	50	48.5	97.0	(90.00 - 110.00)	
LCS2	Sulfate	50	48.5	97.0	(90.00 - 110.00)	0.00
MBLK	Sulfate	ND				
MS	Sulfate	50	50.8	101.6	(70.00 - 130.00)	
MSD	Sulfate	50	50.8	101.6	(70.00 - 130.00)	0.00

QC Batch #66907 Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	4	3.74	93.5	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	4.07	101.8	(70.00 - 130.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	3.87	96.8	(70.00 - 130.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	3.96	99.0	(70.00 - 130.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	3.70	92.5	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MBLK	1,1-Dichloropropene	ND				
MBLK	1,2,3-Trichlorobenzene	ND				
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	4	3.83	95.8	(70.00 - 130.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	4	3.89	97.2	(70.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	4	3.59	89.8	(70.00 - 130.00)	
MBLK	1,2-Dichloropropane	ND				
MBLK	1,3,5-Trimethylbenzene	ND				

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

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LCS1	1,3-Dichloropropane	8	7.58	94.8	(70.00 - 130.00)
MBLK	1,3-Dichloropropane	ND			
MBLK	2,2-Dichloropropane	ND			
MBLK	2-Butanone (MEK)	ND			
MBLK	2-Chloroethylvinylether	ND			
MBLK	4-Methyl-2-Pentanone (MIBK)	ND			
LCS1	Benzene	4	3.56	89.0	(70.00 - 130.00)
MBLK	Benzene	ND			
MBLK	Bromobenzene	ND			
MBLK	Bromochloromethane	ND			
LCS1	Bromodichloromethane	4	3.91	97.8	(70.00 - 130.00)
MBLK	Bromodichloromethane	ND			
LCS1	Bromoform	4	3.98	99.5	(70.00 - 130.00)
MBLK	Bromoform	ND			
MBLK	Bromomethane (Methyl Bromide)	ND			
LCS1	Carbon Tetrachloride	4	3.53	88.2	(70.00 - 130.00)
MBLK	Carbon Tetrachloride	ND			
LCS1	Chlorobenzene	4	3.94	98.5	(70.00 - 130.00)
MBLK	Chlorobenzene	ND			
LCS1	Chlorodibromomethane	4	3.79	94.8	(70.00 - 130.00)
MBLK	Chlorodibromomethane	ND			
MBLK	Chloroethane	ND			
LCS1	Chloroform (Trichloromethane)	4	3.94	98.5	(70.00 - 130.00)
MBLK	Chloroform (Trichloromethane)	ND			
MBLK	Chloromethane(Methyl Chloride)	ND			
MBLK	Dibromomethane	ND			
MBLK	Dichlorodifluoromethane	ND			
LCS1	Dichloromethane	4	3.84	96.0	(70.00 - 130.00)
MBLK	Dichloromethane	ND			
LCS1	Ethyl benzene	4	3.89	97.2	(70.00 - 130.00)
MBLK	Ethyl benzene	ND			
LCS1	Fluorotrichloromethane-Freon11	2	2.51	125.5	(70.00 - 130.00)
MBLK	Fluorotrichloromethane-Freon11	ND			
MBLK	Hexachlorobutadiene	ND			
MBLK	Isopropylbenzene	ND			
MBLK	Naphthalene	ND			
LCS1	Styrene	4	3.79	94.8	(70.00 - 130.00)

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

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MBLK	Styrene	ND			
LCS1	Tetrachloroethylene (PCE)	4	3.56	89.0	(70.00 - 130.00)
MBLK	Tetrachloroethylene (PCE)	ND			
LCS1	Toluene	4	3.70	92.5	(70.00 - 130.00)
MBLK	Toluene	ND			
LCS1	Trichloroethylene (TCE)	4	3.60	90.0	(70.00 - 130.00)
MBLK	Trichloroethylene (TCE)	ND			
LCS1	Trichlorotrifluoroethane(Freon	2	2.26	113.0	(70.00 - 130.00)
MBLK	Trichlorotrifluoroethane(Freon	ND			
LCS1	Vinyl chloride (VC)	2	1.99	99.5	(70.00 - 130.00)
MBLK	Vinyl chloride (VC)	ND			
LCS1	cis-1,2-Dichloroethylene	4	3.28	82.0	(70.00 - 130.00)
MBLK	cis-1,2-Dichloroethylene	ND			
MBLK	cis-1,3-Dichloropropene	ND			
LCS1	m,p-Xylenes	8	7.69	96.1	(70.00 - 130.00)
MBLK	m,p-Xylenes	ND			
MBLK	m-Dichlorobenzene (1,3-DCB)	ND			
MBLK	n-Butylbenzene	ND			
MBLK	n-Propylbenzene	ND			
MBLK	o-Chlorotoluene	ND			
LCS1	o-Dichlorobenzene (1,2-DCB)	4	3.93	98.2	(70.00 - 130.00)
MBLK	o-Dichlorobenzene (1,2-DCB)	ND			
LCS1	o-Xylene	4	3.94	98.5	(70.00 - 130.00)
MBLK	o-Xylene	ND			
MBLK	p-Chlorotoluene	ND			
LCS1	p-Dichlorobenzene (1,4-DCB)	4	3.91	97.8	(70.00 - 130.00)
MBLK	p-Dichlorobenzene (1,4-DCB)	ND			
MBLK	p-Isopropyltoluene	ND			
MBLK	sec-Butylbenzene	ND			
MBLK	tert-Butylbenzene	ND			
LCS1	trans-1,2-Dichloroethylene	4	3.72	93.0	(70.00 - 130.00)
MBLK	trans-1,2-Dichloroethylene	ND			
MBLK	trans-1,3-Dichloropropene	ND			

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

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QC Batch #67015 Alkalinity

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Alkalinity	96.2	97.2	101.0	(90.00 - 110.00)	
LCS2	Alkalinity	96.2	96.6	100.4	(90.00 - 110.00)	0.62
MBLK	Alkalinity	ND				
MS	Alkalinity	96.2	97.8	101.7	(80.00 - 120.00)	
MSD	Alkalinity	96.2	96.5	100.3	(80.00 - 120.00)	1.3

QC Batch #67291 Perchlorate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Perchlorate	20.0	19.6	98.0	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	19.6	98.0	(90.00 - 110.00)	0.00
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	19.1	95.5	(75.00 - 125.00)	
MSD	Perchlorate	20.0	19.1	95.5	(75.00 - 125.00)	0.00

QC Batch #67578 Potassium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Potassium, Flame AA	20	20.1	100.5	(80.00 - 120.00)	
LCS2	Potassium, Flame AA	20	20.7	103.5	(80.00 - 120.00)	2.9
MBLK	Potassium, Flame AA	ND				
MS	Potassium, Flame AA	20	21.0	105.0	(85.00 - 115.00)	
MSD	Potassium, Flame AA	20	20.9	104.5	(85.00 - 115.00)	0.48

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

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Foster Wheeler Environmental, Inc
(continued)

QC Batch #67580 Sodium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Sodium, Flame AA	50	48.0	96.0	(90.00 - 110.00)	
LCS2	Sodium, Flame AA	50	47.7	95.4	(90.00 - 110.00)	0.63
MBLK	Sodium, Flame AA	ND				
MS	Sodium, Flame AA	50	47.7	95.4	(85.00 - 115.00)	
MSD	Sodium, Flame AA	50	48.2	96.4	(85.00 - 115.00)	1.0

QC Batch #67585 Magnesium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Magnesium, Flame AA	20	19.2	96.0	(90.00 - 110.00)	
LCS2	Magnesium, Flame AA	20	18.8	94.0	(90.00 - 110.00)	2.1
MBLK	Magnesium, Flame AA	ND				
MS	Magnesium, Flame AA	20	19.7	98.5	(85.00 - 115.00)	
MSD	Magnesium, Flame AA	20	20.1	100.5	(85.00 - 115.00)	2.0

QC Batch #67586 Calcium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Calcium, Flame AA	50	53.2	106.4	(90.00 - 110.00)	
LCS2	Calcium, Flame AA	50	52.6	105.2	(90.00 - 110.00)	1.1
MBLK	Calcium, Flame AA	ND				
MS	Calcium, Flame AA	50	54.8	109.6	(85.00 - 115.00)	
MSD	Calcium, Flame AA	50	55.3	110.6	(85.00 - 115.00)	0.91

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

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(continued)

QC Batch #68025 Arsenic, Total, GF

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Arsenic, Total, GF	0.020	0.0218	109.0	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.0224	112.0	(85.00 - 115.00)	2.7
MBLK	Arsenic, Total, GF	ND				
MS	Arsenic, Total, GF	0.020	0.0226	113.0	(85.00 - 115.00)	
MSD	Arsenic, Total, GF	0.020	0.0255	127.5	(85.00 - 115.00)	12

QC Batch #68333 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP/MS	100	105	105.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	107	107.0	(85.00 - 115.00)	1.9
MBLK	Chromium, Total, ICAP/MS	ND		0.0		
MS	Chromium, Total, ICAP/MS	100	100.	100.0	(70.00 - 130.00)	
MSD	Chromium, Total, ICAP/MS	100	102.	102.0	(70.00 - 130.00)	2.0

QC Batch #68335 Iron, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Iron, Total, ICAP/MS	500	489	97.8	(85.00 - 115.00)	
LCS2	Iron, Total, ICAP/MS	500	505	101.0	(85.00 - 115.00)	3.2
MBLK	Iron, Total, ICAP/MS	ND		0.0		
MS	Iron, Total, ICAP/MS	500	508.	102.0	(70.00 - 130.00)	
MSD	Iron, Total, ICAP/MS	500	523.	105.0	(70.00 - 130.00)	2.9

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

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Foster Wheeler Environmental, Inc
(continued)

QC Batch #68337 Lead, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Lead, Total, ICAP/MS	20	20.3	101.5	(85.00 - 115.00)	
LCS2	Lead, Total, ICAP/MS	20	20.3	101.5	(85.00 - 115.00)	0.00
MBLK	Lead, Total, ICAP/MS	ND		0.0		
MS	Lead, Total, ICAP/MS	20	20.2	100.5	(70.00 - 130.00)	
MSD	Lead, Total, ICAP/MS	20	20.3	102.0	(70.00 - 130.00)	0.49

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

November 3, 1997

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

Attention: Mark Cutler

Re: Report # 37145(MW-973-82, -83, -03, -02, -43)

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):

(524.2) MW-973-02 Internal Standard #3 (1,2-DCBd) recovered below 70%, 2 times. A third run was analyzed and reported. In the third run the Surrogate, 1,2 -DCAd4 recovered High. All analytes, in all Analyses, were ND. A high Bias would be expected from these types of recoveries. QIR # MS-97-032

(As-GF) QC batch 68025: Arsenic MSD recovery exceeds the Limits Of 85-115 at 127% recovery. The MS and a spike addition on the same sample had acceptable recoveries. The RPD of the MS/MSD was 12%, within acceptable limits. The sample spiked was not a part of this days sampling event.

Samples requiring dilution (with increased MRL's):

NONE

Method blanks with compounds detected:

NONE

Other Comments:

Chloroform was detected in sample ID: MW-973-83, -03, -43
Tetrachloroethylene (PCE) was detected in sample ID: MW-973-43
Trichloroethylene (TCE) was detected in sample ID: Mw-973-43
Perchlorate is ND, but quantifiable, in sample ID: MW-973-02
Perchlorate was detected in sample ID: MW-973-43

TIC

A VOC of unknown identification (RT= 3:42) was detected in sample ID: MW-973-82

Sincerely,

Debbie Frank
Project Manager

cc: Judy Novelly (JPL)

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Report
#37145

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

Samples Received
16-sep-1997 10:12:53

MW-973-82 (970916001) Sampled on 09/15/97

Regulated VOCs plus Lists 1&3

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/17/97	66907	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	09/17/97	66907	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	09/17/97	66907	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/17/97	66907	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	Unknown RT=3.42	1.7	ug/L		1
			(Surrogate)	1,2-Dichloroethane-d4	113	% Rec		
			(Surrogate)	4-Bromofluorobenzene	91	% Rec		
			(Surrogate)	Toluene-d8	100	% Rec		

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-973-83 (970916002)			**Sampled on 09/15/97**					
10/07/97	10/21/97	68025	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	10/04/97	67291	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
10/07/97	10/17/97	68333	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	09/16/97	66559	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
10/07/97	10/17/97	68337	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
			Regulated VOCs plus Lists 1&3					
	09/17/97	66907	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	09/17/97	66907	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	09/17/97	66907	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1

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Laboratory
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#37145

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/17/97	66907	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Chloroform (Trichloromethane)	1.5	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	09/17/97	66907	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	105	% Rec		
			(Surrogate)	4-Bromofluorobenzene	95	% Rec		

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
			(Surrogate	) Toluene-d8	104	% Rec		
MW-973-03 (970916003)			**Sampled on 09/15/97**					
	09/23/97	67015	(ML/S2320B	) Alkalinity	180	mg/l	2.0	1
	10/13/97		(ML/SM1040	) Anion Sum	4.80	meq/l	0.0010	1
10/07/97	10/21/97	68025	(S3113B/E200.9	) Arsenic, Total, GF	ND	mg/l	0.005	1
	10/08/97	67586	(ML/S3111B	) Calcium, Flame AA	53	mg/l	1.0	1
	10/14/97		(ML/SM1040	) Cation Sum	4.86	meq/l	0.0010	1
	09/16/97	66566	(ML/EPA 300	) Chloride	13	mg/l	1.0	1
	10/04/97	67291	(MOD/EPA 300	) Perchlorate	ND	ug/l	4.0	1
	10/09/97		(ML/S2320-B	) Carbonate as CO3, Calculated	0.450	mg/l	0.0010	1
10/07/97	10/17/97	68333	(EPA/MS 200.8	) Chromium, Total, ICAP/MS	ND	ug/l	10	1
	09/16/97	66559	(ML/SW 7196	) Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	09/17/97		(ML/S2510B	) Specific Conductance	485	umho/cm	4.0	1
10/07/97	10/17/97	68335	(EPA/ML 200.8	) Iron, Total, ICAP/MS	170	ug/l	100	1
	10/09/97		(ML/S2320B	) Bicarbonate as HCO3,calculated	219	mg/l	0.0010	1
	10/08/97	67578	(ML/S3111B	) Potassium, Flame AA	2.7	mg/l	1.0	1
	10/08/97	67585	(ML/S3111B	) Magnesium, Flame AA	16	mg/l	1.0	1
	10/08/97	67580	(ML/S3111B	) Sodium, Flame AA	19	mg/l	1.0	1
	09/16/97	66568	(ML/EPA 300.0	) Nitrate-N by IC	0.9	mg/l	0.10	1
10/07/97	10/17/97	68337	(EPA/ML 200.8	) Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	09/16/97		(ML/SM 4500H	) Lab pH	7.5	Units	0.0010	1
	09/16/97	66569	(ML/EPA 300.0	) Sulfate	37	mg/l	2.0	1
	09/17/97	66549	(ML/S2540C	) Total Dissolved Solid (TDS)	280	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	09/18/97	66959	(ML/EPA 524.2	) 1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2	) 1,1,1-Trichloroethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2	) 1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2	) 1,1,2-Trichloroethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2	) 1,1-Dichloroethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2	) 1,1-Dichloroethylene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2	) 1,1-Dichloropropene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2	) 1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2	) 1,2,3-Trichloropropane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2	) 1,2,4-Trichlorobenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/18/97	66959	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	09/18/97	66959	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	09/18/97	66959	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Chloroform (Trichloromethane)	0.8	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/18/97	66959	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	113	% Rec		
			(Surrogate)	4-Bromofluorobenzene	93	% Rec		
			(Surrogate)	Toluene-d8	99	% Rec		
MW-973-02 (970916004)			**Sampled on**	**09/15/97**				
	09/23/97	67015	(ML/S2320B)	Alkalinity	150	mg/l	2.0	1
	10/13/97		(ML/SM1040)	Anion Sum	3.75	meq/l	0.0010	1
10/07/97	10/21/97	68025	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	10/08/97	67586	(ML/S3111B)	Calcium, Flame AA	41	mg/l	1.0	1
	10/14/97		(ML/SM1040)	Cation Sum	3.92	meq/l	0.0010	1
	09/16/97	66566	(ML/EPA 300)	Chloride	7.6	mg/l	1.0	1
	10/04/97	67291	(MOD/EPA 300)	Perchlorate	ND (3.6)	ug/l	4.0	1
	10/09/97		(ML/S2320-B)	Carbonate as CO3, Calculated	0.473	mg/l	0.0010	1
10/07/97	10/17/97	68333	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	09/16/97	66559	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	09/17/97		(ML/S2510B)	Specific Conductance	385	umho/cm	4.0	1
10/07/97	10/17/97	68335	(EPA/ML 200.8)	Iron, Total, ICAP/MS	140	ug/l	100	1
	10/09/97		(ML/S2320B)	Bicarbonate as HCO3,calculated	183	mg/l	0.0010	1
	10/08/97	67578	(ML/S3111B)	Potassium, Flame AA	2.5	mg/l	1.0	1
	10/08/97	67585	(ML/S3111B)	Magnesium, Flame AA	13	mg/l	1.0	1
	10/08/97	67580	(ML/S3111B)	Sodium, Flame AA	17	mg/l	1.0	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/16/97	66568	(ML/EPA 300.0)	Nitrate-N by IC	0.5	mg/l	0.10	1
10/07/97	10/17/97	68337	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	09/16/97		(ML/SM 4500H)	Lab pH	7.6	Units	0.0010	1
	09/16/97	66569	(ML/EPA 300.0)	Sulfate	24	mg/l	2.0	1
	09/22/97	67066	(ML/S2540C)	Total Dissolved Solid (TDS)	240	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	09/18/97	66959	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	09/18/97	66959	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	09/18/97	66959	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/18/97	66959	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	09/18/97	66959	(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	90	% Rec		
			(Surrogate)	4-Bromofluorobenzene	107	% Rec		
			(Surrogate)	Toluene-d8	99	% Rec		

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-973-43 (970916005) Sampled on 09/15/97								
	09/23/97	67015	(ML/S2320B)	Alkalinity	180	mg/l	2.0	1
	10/13/97		(ML/SM1040)	Anion Sum	4.57	meq/l	0.0010	1
10/07/97	10/21/97	68025	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	10/08/97	67586	(ML/S3111B)	Calcium, Flame AA	45	mg/l	1.0	1
	10/14/97		(ML/SM1040)	Cation Sum	4.72	meq/l	0.0010	1
	09/16/97	66566	(ML/EPA 300)	Chloride	11	mg/l	1.0	1
	10/04/97	67291	(MOD/EPA 300)	Perchlorate	16	ug/l	4.0	1
	10/09/97		(ML/S2320-B)	Carbonate as CO3, Calculated	0.898	mg/l	0.0010	1
10/07/97	10/17/97	68333	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	09/16/97	66559	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	09/17/97		(ML/S2510B)	Specific Conductance	455	umho/cm	4.0	1
10/07/97	10/17/97	68335	(EPA/ML 200.8)	Iron, Total, ICAP/MS	730	ug/l	100	1
	10/09/97		(ML/S2320B)	Bicarbonate as HCO3,calculated	219	mg/l	0.0010	1
	10/08/97	67578	(ML/S3111B)	Potassium, Flame AA	1.7	mg/l	1.0	1
	10/08/97	67585	(ML/S3111B)	Magnesium, Flame AA	12	mg/l	1.0	1
	10/08/97	67580	(ML/S3111B)	Sodium, Flame AA	33	mg/l	1.0	1
	09/16/97	66568	(ML/EPA 300.0)	Nitrate-N by IC	1.9	mg/l	0.10	1
10/07/97	10/17/97	68337	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	09/16/97		(ML/SM 4500H)	Lab pH	7.8	Units	0.0010	1
	09/16/97	66569	(ML/EPA 300.0)	Sulfate	25	mg/l	2.0	1
	09/22/97	67066	(ML/S2540C)	Total Dissolved Solid (TDS)	270	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	09/18/97	66959	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/18/97	66959	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	09/18/97	66959	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	09/18/97	66959	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Chloroform (Trichloromethane)	1.0	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/18/97	66959	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	0.5	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Trichloroethylene (TCE)	6.8	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	110	% Rec		
			(Surrogate)	4-Bromofluorobenzene	90	% Rec		
			(Surrogate)	Toluene-d8	101	% Rec		

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Report
Comments
#37145

Group Comments

(As-GF) Sample 970916207 was spiked for MS/MSD. The MSD recovery was high bias out side the 85-115% limit. The RPD was 12% and a spike addition recovery was 106%. The high bias recovery does not effect the spiked sample since it was found to be ND. No further action was taken.

(970916004)
@EBASVOA
IS#3 (1,2-DCBd4) recovered below 70% twice.
See QIR-MS-97-032

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Laboratory QC Report #37145

Foster Wheeler Environmental, Inc

QC Batch #66549 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Total Dissolved Solid (TDS)	175	176	100.6	(85.00 - 115.00)	
LCS2	Total Dissolved Solid (TDS)	700	658	94.0	(85.00 - 115.00)	
MBLK	Total Dissolved Solid (TDS)	ND				

QC Batch #66559 Hexavalent chromium (Cr VI)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Hexavalent chromium (Cr VI)	0.050	0.0508	101.6	(78.00 - 118.00)	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.0491	98.2	(78.00 - 118.00)	3.4
MBLK	Hexavalent chromium (Cr VI)	ND				
MS	Hexavalent chromium (Cr VI)	0.050	0.0458	91.6	(80.00 - 120.00)	
MSD	Hexavalent chromium (Cr VI)	0.050	0.0491	98.2	(80.00 - 120.00)	7.0

QC Batch #66566 Chloride

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Chloride	25	24.5	98.0	(90.00 - 110.00)	
LCS2	Chloride	25	24.5	98.0	(90.00 - 110.00)	0.00
MBLK	Chloride	ND				
MS	Chloride	25	24.8	99.2	(80.00 - 120.00)	
MSD	Chloride	25	24.8	99.2	(80.00 - 120.00)	0.00

QC Batch #66568 Nitrate-N by IC

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Nitrate-N by IC	2.5	2.39	95.6	(90.00 - 110.00)	
LCS2	Nitrate-N by IC	2.5	2.37	94.8	(90.00 - 110.00)	0.84
MBLK	Nitrate-N by IC	ND				
MS	Nitrate-N by IC	2.5	2.43	97.2	(90.00 - 110.00)	
MSD	Nitrate-N by IC	2.5	2.43	97.2	(90.00 - 110.00)	0.00

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

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Foster Wheeler Environmental, Inc
(continued)

QC Batch #66569 Sulfate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Sulfate	50	48.1	96.2	(90.00 - 110.00)	
LCS2	Sulfate	50	48.2	96.4	(90.00 - 110.00)	0.21
MBLK	Sulfate	ND				
MS	Sulfate	50	50.1	100.2	(70.00 - 130.00)	
MSD	Sulfate	50	50.1	100.2	(70.00 - 130.00)	0.00

QC Batch #66907 Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	4	3.74	93.5	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	4.07	101.8	(70.00 - 130.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	3.87	96.8	(70.00 - 130.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	3.96	99.0	(70.00 - 130.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	3.70	92.5	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MBLK	1,1-Dichloropropene	ND				
MBLK	1,2,3-Trichlorobenzene	ND				
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	4	3.83	95.8	(70.00 - 130.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	4	3.89	97.2	(70.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	4	3.59	89.8	(70.00 - 130.00)	
MBLK	1,2-Dichloropropane	ND				
MBLK	1,3,5-Trimethylbenzene	ND				

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

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LCS1	1,3-Dichloropropane	8	7.58	94.8	(70.00 - 130.00)
MBLK	1,3-Dichloropropane	ND			
MBLK	2,2-Dichloropropane	ND			
MBLK	2-Butanone (MEK)	ND			
MBLK	2-Chloroethylvinylether	ND			
MBLK	4-Methyl-2-Pentanone (MIBK)	ND			
LCS1	Benzene	4	3.56	89.0	(70.00 - 130.00)
MBLK	Benzene	ND			
MBLK	Bromobenzene	ND			
MBLK	Bromochloromethane	ND			
LCS1	Bromodichloromethane	4	3.91	97.8	(70.00 - 130.00)
MBLK	Bromodichloromethane	ND			
LCS1	Bromoform	4	3.98	99.5	(70.00 - 130.00)
MBLK	Bromoform	ND			
MBLK	Bromomethane (Methyl Bromide)	ND			
LCS1	Carbon Tetrachloride	4	3.53	88.2	(70.00 - 130.00)
MBLK	Carbon Tetrachloride	ND			
LCS1	Chlorobenzene	4	3.94	98.5	(70.00 - 130.00)
MBLK	Chlorobenzene	ND			
LCS1	Chlorodibromomethane	4	3.79	94.8	(70.00 - 130.00)
MBLK	Chlorodibromomethane	ND			
MBLK	Chloroethane	ND			
LCS1	Chloroform (Trichloromethane)	4	3.94	98.5	(70.00 - 130.00)
MBLK	Chloroform (Trichloromethane)	ND			
MBLK	Chloromethane(Methyl Chloride)	ND			
MBLK	Dibromomethane	ND			
MBLK	Dichlorodifluoromethane	ND			
LCS1	Dichloromethane	4	3.84	96.0	(70.00 - 130.00)
MBLK	Dichloromethane	ND			
LCS1	Ethyl benzene	4	3.89	97.2	(70.00 - 130.00)
MBLK	Ethyl benzene	ND			
LCS1	Fluorotrichloromethane-Freon11	2	2.51	125.5	(70.00 - 130.00)
MBLK	Fluorotrichloromethane-Freon11	ND			
MBLK	Hexachlorobutadiene	ND			
MBLK	Isopropylbenzene	ND			
MBLK	Naphthalene	ND			
LCS1	Styrene	4	3.79	94.8	(70.00 - 130.00)

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

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Foster Wheeler Environmental, Inc
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MBLK	Styrene	ND			
LCS1	Tetrachloroethylene (PCE)	4	3.56	89.0	(70.00 - 130.00)
MBLK	Tetrachloroethylene (PCE)	ND			
LCS1	Toluene	4	3.70	92.5	(70.00 - 130.00)
MBLK	Toluene	ND			
LCS1	Trichloroethylene (TCE)	4	3.60	90.0	(70.00 - 130.00)
MBLK	Trichloroethylene (TCE)	ND			
LCS1	Trichlorotrifluoroethane(Freon	2	2.26	113.0	(70.00 - 130.00)
MBLK	Trichlorotrifluoroethane(Freon	ND			
LCS1	Vinyl chloride (VC)	2	1.99	99.5	(70.00 - 130.00)
MBLK	Vinyl chloride (VC)	ND			
LCS1	cis-1,2-Dichloroethylene	4	3.28	82.0	(70.00 - 130.00)
MBLK	cis-1,2-Dichloroethylene	ND			
MBLK	cis-1,3-Dichloropropene	ND			
LCS1	m,p-Xylenes	8	7.69	96.1	(70.00 - 130.00)
MBLK	m,p-Xylenes	ND			
MBLK	m-Dichlorobenzene (1,3-DCB)	ND			
MBLK	n-Butylbenzene	ND			
MBLK	n-Propylbenzene	ND			
MBLK	o-Chlorotoluene	ND			
LCS1	o-Dichlorobenzene (1,2-DCB)	4	3.93	98.2	(70.00 - 130.00)
MBLK	o-Dichlorobenzene (1,2-DCB)	ND			
LCS1	o-Xylene	4	3.94	98.5	(70.00 - 130.00)
MBLK	o-Xylene	ND			
MBLK	p-Chlorotoluene	ND			
LCS1	p-Dichlorobenzene (1,4-DCB)	4	3.91	97.8	(70.00 - 130.00)
MBLK	p-Dichlorobenzene (1,4-DCB)	ND			
MBLK	p-Isopropyltoluene	ND			
MBLK	sec-Butylbenzene	ND			
MBLK	tert-Butylbenzene	ND			
LCS1	trans-1,2-Dichloroethylene	4	3.72	93.0	(70.00 - 130.00)
MBLK	trans-1,2-Dichloroethylene	ND			
MBLK	trans-1,3-Dichloropropene	ND			

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

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QC Batch #66959 Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	4	3.69	92.2	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	4.05	101.2	(70.00 - 130.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	4.03	100.8	(70.00 - 130.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	4.00	100.0	(70.00 - 130.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	3.58	89.5	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MBLK	1,1-Dichloropropene	ND				
MBLK	1,2,3-Trichlorobenzene	ND				
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	4	3.56	89.0	(70.00 - 130.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	4	3.94	98.5	(70.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	4	3.71	92.8	(70.00 - 130.00)	
MBLK	1,2-Dichloropropane	ND				
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	8	7.39	92.4	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
MBLK	2,2-Dichloropropane	ND				
MBLK	2-Butanone (MEK)	ND				
MBLK	2-Chloroethylvinylether	ND				
MBLK	4-Methyl-2-Pentanone (MIBK)	ND				
LCS1	Benzene	4	3.36	84.0	(70.00 - 130.00)	
MBLK	Benzene	ND				
MBLK	Bromobenzene	ND				
MBLK	Bromochloromethane	ND				

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

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(continued)

LCS1	Bromodichloromethane	4	3.86	96.5	(70.00 - 130.00)
MBLK	Bromodichloromethane	ND			
LCS1	Bromoform	4	3.84	96.0	(70.00 - 130.00)
MBLK	Bromoform	ND			
MBLK	Bromomethane (Methyl Bromide)	ND			
LCS1	Carbon Tetrachloride	4	3.47	86.8	(70.00 - 130.00)
MBLK	Carbon Tetrachloride	ND			
LCS1	Chlorobenzene	4	3.76	94.0	(70.00 - 130.00)
MBLK	Chlorobenzene	ND			
LCS1	Chlorodibromomethane	4	3.84	96.0	(70.00 - 130.00)
MBLK	Chlorodibromomethane	ND			
MBLK	Chloroethane	ND			
LCS1	Chloroform (Trichloromethane)	4	3.89	97.2	(70.00 - 130.00)
MBLK	Chloroform (Trichloromethane)	ND			
MBLK	Chloromethane(Methyl Chloride)	ND			
MBLK	Dibromomethane	ND			
MBLK	Dichlorodifluoromethane	ND			
LCS1	Dichloromethane	4	3.97	99.2	(70.00 - 130.00)
MBLK	Dichloromethane	ND			
LCS1	Ethyl benzene	4	3.75	93.8	(70.00 - 130.00)
MBLK	Ethyl benzene	ND			
LCS1	Fluorotrichloromethane-Freon11	2	2.43	121.5	(70.00 - 130.00)
MBLK	Fluorotrichloromethane-Freon11	ND			
MBLK	Hexachlorobutadiene	ND			
MBLK	Isopropylbenzene	ND			
MBLK	Naphthalene	ND			
LCS1	Styrene	4	3.74	93.5	(70.00 - 130.00)
MBLK	Styrene	ND			
LCS1	Tetrachloroethylene (PCE)	4	3.43	85.8	(70.00 - 130.00)
MBLK	Tetrachloroethylene (PCE)	ND			
LCS1	Toluene	4	3.53	88.2	(70.00 - 130.00)
MBLK	Toluene	ND			
LCS1	Trichloroethylene (TCE)	4	3.48	87.0	(70.00 - 130.00)
MBLK	Trichloroethylene (TCE)	ND			
LCS1	Trichlorotrifluoroethane(Freon	2	2.59	129.5	(70.00 - 130.00)
MBLK	Trichlorotrifluoroethane(Freon	ND			
LCS1	Vinyl chloride (VC)	2	1.89	94.5	(70.00 - 130.00)

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(continued)

MBLK	Vinyl chloride (VC)	ND			
LCS1	cis-1,2-Dichloroethylene	4	3.46	86.5	(70.00 - 130.00)
MBLK	cis-1,2-Dichloroethylene	ND			
MBLK	cis-1,3-Dichloropropene	ND			
LCS1	m,p-Xylenes	8	7.34	91.8	(70.00 - 130.00)
MBLK	m,p-Xylenes	ND			
MBLK	m-Dichlorobenzene (1,3-DCB)	ND			
MBLK	n-Butylbenzene	ND			
MBLK	n-Propylbenzene	ND			
MBLK	o-Chlorotoluene	ND			
LCS1	o-Dichlorobenzene (1,2-DCB)	4	3.84	96.0	(70.00 - 130.00)
MBLK	o-Dichlorobenzene (1,2-DCB)	ND			
LCS1	o-Xylene	4	3.61	90.2	(70.00 - 130.00)
MBLK	o-Xylene	ND			
MBLK	p-Chlorotoluene	ND			
LCS1	p-Dichlorobenzene (1,4-DCB)	4	3.67	91.8	(70.00 - 130.00)
MBLK	p-Dichlorobenzene (1,4-DCB)	ND			
MBLK	p-Isopropyltoluene	ND			
MBLK	sec-Butylbenzene	ND			
MBLK	tert-Butylbenzene	ND			
LCS1	trans-1,2-Dichloroethylene	4	3.75	93.8	(70.00 - 130.00)
MBLK	trans-1,2-Dichloroethylene	ND			
MBLK	trans-1,3-Dichloropropene	ND			

QC Batch #67015 Alkalinity

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Alkalinity	96.2	97.2	101.0	(90.00 - 110.00)	
LCS2	Alkalinity	96.2	96.6	100.4	(90.00 - 110.00)	0.62
MBLK	Alkalinity	ND				
MS	Alkalinity	96.2	97.8	101.7	(80.00 - 120.00)	
MSD	Alkalinity	96.2	96.5	100.3	(80.00 - 120.00)	1.3

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QC Batch #67066 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Total Dissolved Solid (TDS)	175	174	99.4	(85.00 - 115.00)	
LCS2	Total Dissolved Solid (TDS)	700	672	96.0	(85.00 - 115.00)	
MBLK	Total Dissolved Solid (TDS)	ND				

QC Batch #67291 Perchlorate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Perchlorate	20.0	19.6	98.0	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	19.6	98.0	(90.00 - 110.00)	0.00
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	19.1	95.5	(75.00 - 125.00)	
MSD	Perchlorate	20.0	19.1	95.5	(75.00 - 125.00)	0.00

QC Batch #67578 Potassium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Potassium, Flame AA	20	20.1	100.5	(80.00 - 120.00)	
LCS2	Potassium, Flame AA	20	20.7	103.5	(80.00 - 120.00)	2.9
MBLK	Potassium, Flame AA	ND				
MS	Potassium, Flame AA	20	21.0	105.0	(85.00 - 115.00)	
MSD	Potassium, Flame AA	20	20.9	104.5	(85.00 - 115.00)	0.48

QC Batch #67580 Sodium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Sodium, Flame AA	50	48.0	96.0	(90.00 - 110.00)	
LCS2	Sodium, Flame AA	50	47.7	95.4	(90.00 - 110.00)	0.63
MBLK	Sodium, Flame AA	ND				
MS	Sodium, Flame AA	50	47.7	95.4	(85.00 - 115.00)	

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Criteria for MS and DUP are not applicable for ICR monitoring.

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(continued)

MSD	Sodium, Flame AA	50	48.2	96.4	(85.00 - 115.00)	1.0

QC Batch #67585 Magnesium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Magnesium, Flame AA	20	19.2	96.0	(90.00 - 110.00)	
LCS2	Magnesium, Flame AA	20	18.8	94.0	(90.00 - 110.00)	2.1
MBLK	Magnesium, Flame AA	ND				
MS	Magnesium, Flame AA	20	19.7	98.5	(85.00 - 115.00)	
MSD	Magnesium, Flame AA	20	20.1	100.5	(85.00 - 115.00)	2.0

QC Batch #67586 Calcium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Calcium, Flame AA	50	53.2	106.4	(90.00 - 110.00)	
LCS2	Calcium, Flame AA	50	52.6	105.2	(90.00 - 110.00)	1.1
MBLK	Calcium, Flame AA	ND				
MS	Calcium, Flame AA	50	54.8	109.6	(85.00 - 115.00)	
MSD	Calcium, Flame AA	50	55.3	110.6	(85.00 - 115.00)	0.91

QC Batch #68025 Arsenic, Total, GF

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Arsenic, Total, GF	0.020	0.0218	109.0	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.0224	112.0	(85.00 - 115.00)	2.7
MBLK	Arsenic, Total, GF	ND				
MS	Arsenic, Total, GF	0.020	0.0226	113.0	(85.00 - 115.00)	
MSD	Arsenic, Total, GF	0.020	0.0255	<u>127.5</u>	(85.00 - 115.00)	12

Spikes which exceed Limits and Method Blanks with positive results are highlighted by <u>Underlining.</u>
Criteria for MS and DUP are not applicable for ICR monitoring.

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(continued)

QC Batch #68333 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP/MS	100	105	105.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	107	107.0	(85.00 - 115.00)	1.9
MBLK	Chromium, Total, ICAP/MS	ND		0.0		
MS	Chromium, Total, ICAP/MS	100	100.	100.0	(70.00 - 130.00)	
MSD	Chromium, Total, ICAP/MS	100	102.	102.0	(70.00 - 130.00)	2.0

QC Batch #68335 Iron, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Iron, Total, ICAP/MS	500	489	97.8	(85.00 - 115.00)	
LCS2	Iron, Total, ICAP/MS	500	505	101.0	(85.00 - 115.00)	3.2
MBLK	Iron, Total, ICAP/MS	ND		0.0		
MS	Iron, Total, ICAP/MS	500	508.	102.0	(70.00 - 130.00)	
MSD	Iron, Total, ICAP/MS	500	523.	105.0	(70.00 - 130.00)	2.9

QC Batch #68337 Lead, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Lead, Total, ICAP/MS	20	20.3	101.5	(85.00 - 115.00)	
LCS2	Lead, Total, ICAP/MS	20	20.3	101.5	(85.00 - 115.00)	0.00
MBLK	Lead, Total, ICAP/MS	ND		0.0		
MS	Lead, Total, ICAP/MS	20	20.2	100.5	(70.00 - 130.00)	
MSD	Lead, Total, ICAP/MS	20	20.3	102.0	(70.00 - 130.00)	0.49

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

November 3, 1997

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

Attention: Mark Cutler

Re: Report # 37278 (MW-973-86, -87, -44, -54, -53)

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):
(As-GF) QC batch 68025, Arsenic MSD recovery exceeds the Limits of 85-115 at 127% recovery. The MS and a spike addition on the same sample had acceptable recoveries. The RPD of the MS/MSD was 12%, within acceptable limits. The sample spiked was not a part of this days sampling event.

Samples requiring dilution (with increased MRL's):
MW-973-54: Chloride, Nitrate, and Sulfate.

Method blanks with compounds detected:
(524.2) A VOC of unknown identification (RT= 6:40)was detected.

Other Comments:
Chloroform was detected in sample ID: MW-973-87, -44, -54, -53
Tetrachloroethylene (PCE) was detected in sample ID: MW-973-44, MW-973-54, -53
Trichloroethylene (TCE) was detected in sample ID: MW-973-44, -53
Perchlorate was detected in sample ID: MW-973-44, -53

TIC
A VOC of unknown identification (RT= 6:40) was detected in sample ID: MW-973-87

Sincerely,

Debbie Frank
Project Manager

cc: Judy Novelly (JPL)

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Laboratory
Report
#37278

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

Samples Received
18-sep-1997 15:34:58

MW-973-86 (970918096) Sampled on 09/18/97

Regulated VOCs plus Lists 1&3

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/24/97	67178	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	09/24/97	67178	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	09/24/97	67178	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/24/97	67178	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	118	% Rec		
			(Surrogate)	4-Bromofluorobenzene	95	% Rec		
			(Surrogate)	Toluene-d8	106	% Rec		

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Laboratory
Report
#37278

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-973-87 (970918097)				**Sampled on 09/18/97**				
10/07/97	10/21/97	68025	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	10/04/97	67291	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
10/07/97	10/17/97	68333	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	09/18/97	66596	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
10/07/97	10/17/97	68337	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
				Regulated VOCs plus Lists 1&3				
	09/23/97	67091	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	09/23/97	67091	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	09/23/97	67091	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/23/97	67091	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Chloroform (Trichloromethane)	1.5	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	Unknown RT 6.40	1.0 B	ug/L		1
			(Surrogate)	1,2-Dichloroethane-d4	111	% Rec		
			(Surrogate)	4-Bromofluorobenzene	105	% Rec		

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
			(Surrogate)	Toluene-d8	109	% Rec		
MW-973-44 (970918098)			**Sampled on 09/18/97**					
	09/23/97	67015	(ML/S2320B)	Alkalinity	175	mg/l	2.0	1
	10/13/97		(ML/SM1040)	Anion Sum	4.49	meq/l	0.0010	1
10/07/97	10/22/97	68025	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	10/08/97	67586	(ML/S3111B)	Calcium, Flame AA	43	mg/l	1.0	1
	10/14/97		(ML/SM1040)	Cation Sum	4.66	meq/l	0.0010	1
	09/18/97	66832	(ML/EPA 300)	Chloride	11	mg/l	1.0	1
	10/04/97	67291	(MOD/EPA 300)	Perchlorate	15	ug/l	4.0	1
	10/09/97		(ML/S2320-B)	Carbonate as CO3, Calculated	1.38	mg/l	0.0010	1
10/07/97	10/17/97	68333	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	09/18/97	66596	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	09/25/97		(ML/S2510B)	Specific Conductance	435	umho/cm	4.0	1
10/07/97	10/17/97	68335	(EPA/ML 200.8)	Iron, Total, ICAP/MS	820	ug/l	100	1
	10/09/97		(ML/S2320B)	Bicarbonate as HCO3,calculated	213	mg/l	0.0010	1
	10/08/97	67578	(ML/S3111B)	Potassium, Flame AA	1.7	mg/l	1.0	1
	10/08/97	67585	(ML/S3111B)	Magnesium, Flame AA	12	mg/l	1.0	1
	10/08/97	67580	(ML/S3111B)	Sodium, Flame AA	34	mg/l	1.0	1
	09/18/97	66836	(ML/EPA 300.0)	Nitrate-N by IC	1.9	mg/l	0.10	1
10/07/97	10/17/97	68337	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	09/23/97		(ML/SM 4500H)	Lab pH	8.0	Units	0.0010	1
	09/18/97	66837	(ML/EPA 300.0)	Sulfate	26	mg/l	2.0	1
	09/25/97	67388	(ML/S2540C)	Total Dissolved Solid (TDS)	240	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	09/23/97	67091	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/23/97	67091	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	09/23/97	67091	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	09/23/97	67091	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Chloroform (Trichloromethane)	1.4	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1

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	09/23/97	67091	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	0.6	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Trichloroethylene (TCE)	8.6	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	112	% Rec		
			(Surrogate)	4-Bromofluorobenzene	88	% Rec		
			(Surrogate)	Toluene-d8	104	% Rec		

MW-973-54 (970918099) Sampled on 09/18/97

	09/23/97	67015	(ML/S2320B)	Alkalinity	215	mg/l	2.0	1
	10/13/97		(ML/SM1040)	Anion Sum	7.59	meq/l	0.0010	1
10/07/97	10/22/97	68025	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	10/08/97	67586	(ML/S3111B)	Calcium, Flame AA	84	mg/l	1.0	1
	10/14/97		(ML/SM1040)	Cation Sum	7.95	meq/l	0.0010	1
	09/18/97	66832	(ML/EPA 300)	Chloride	57	mg/l	2.0	2
	10/04/97	67291	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	10/09/97		(ML/S2320-B)	Carbonate as CO3, Calculated	0.853	mg/l	0.0010	1
10/07/97	10/17/97	68333	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	09/18/97	66596	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	09/25/97		(ML/S2510B)	Specific Conductance	770	umho/cm	4.0	1
10/07/97	10/17/97	68335	(EPA/ML 200.8)	Iron, Total, ICAP/MS	1100	ug/l	100	1
	10/09/97		(ML/S2320B)	Bicarbonate as HCO3,calculated	262	mg/l	0.0010	1
	10/08/97	67578	(ML/S3111B)	Potassium, Flame AA	2.4	mg/l	1.0	1
	10/08/97	67585	(ML/S3111B)	Magnesium, Flame AA	29	mg/l	1.0	1
	10/08/97	67580	(ML/S3111B)	Sodium, Flame AA	30	mg/l	1.0	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/18/97	66836	(ML/EPA 300.0)	Nitrate-N by IC	6.9	mg/l	0.20	2
10/07/97	10/17/97	68337	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	09/23/97		(ML/SM 4500H)	Lab pH	7.7	Units	0.0010	1
	09/18/97	66837	(ML/EPA 300.0)	Sulfate	57	mg/l	4.0	2
	09/25/97	67388	(ML/S2540C)	Total Dissolved Solid (TDS)	450	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	09/23/97	67091	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	09/23/97	67091	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	09/23/97	67091	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/23/97	67091	(ML/EPA 524.2)	Chloroform (Trichloromethane)	0.8	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	2.2	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	119	% Rec		
			(Surrogate)	4-Bromofluorobenzene	91	% Rec		
			(Surrogate)	Toluene-d8	108	% Rec		

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-973-53 (970918100) Sampled on 09/18/97								
	09/23/97	67015	(ML/S2320B)	Alkalinity	200	mg/l	2.0	1
	10/13/97		(ML/SM1040)	Anion Sum	6.43	meq/l	0.0010	1
10/07/97	10/22/97	68025	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	10/08/97	67586	(ML/S3111B)	Calcium, Flame AA	70	mg/l	1.0	1
	10/14/97		(ML/SM1040)	Cation Sum	6.66	meq/l	0.0010	1
	09/18/97	66832	(ML/EPA 300)	Chloride	37	mg/l	1.0	1
	10/04/97	67291	(MOD/EPA 300)	Perchlorate	4.9	ug/l	4.0	1
	10/09/97		(ML/S2320-B)	Carbonate as CO3, Calculated	0.631	mg/l	0.0010	1
10/07/97	10/17/97	68333	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	09/18/97	66596	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	09/25/97		(ML/S2510B)	Specific Conductance	630	umho/cm	4.0	1
10/07/97	10/17/97	68335	(EPA/ML 200.8)	Iron, Total, ICAP/MS	1300	ug/l	100	1
	10/09/97		(ML/S2320B)	Bicarbonate as HCO3,calculated	244	mg/l	0.0010	1
	10/08/97	67578	(ML/S3111B)	Potassium, Flame AA	2.2	mg/l	1.0	1
	10/08/97	67585	(ML/S3111B)	Magnesium, Flame AA	24	mg/l	1.0	1
	10/08/97	67580	(ML/S3111B)	Sodium, Flame AA	26	mg/l	1.0	1
	09/18/97	66836	(ML/EPA 300.0)	Nitrate-N by IC	4.8	mg/l	0.10	1
10/07/97	10/17/97	68337	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	09/23/97		(ML/SM 4500H)	Lab pH	7.6	Units	0.0010	1
	09/18/97	66837	(ML/EPA 300.0)	Sulfate	50	mg/l	2.0	1
	09/25/97	67388	(ML/S2540C)	Total Dissolved Solid (TDS)	390	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	09/23/97	67091	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/23/97	67091	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	09/23/97	67091	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	09/23/97	67091	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Chloroform (Trichloromethane)	1.7	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/23/97	67091	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	0.6	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Trichloroethylene (TCE)	0.7	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	116	% Rec		
			(Surrogate)	4-Bromofluorobenzene	96	% Rec		
			(Surrogate)	Toluene-d8	106	% Rec		

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Group Comments

(524) Sample MW-973-92 has a small amount of headspace but its impact on the data integrity is insignificant.
(As-GF) Sample 970916207 was spiked for MS/MSD. The MSD recovery was high bias, out side the 85-115% limit. The RPD was 12% and a spike addition recovery was 106%. The high recovery does not effect the spiked sample result, since it was found to be ND. No further action was taken.

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QC Batch #66596 Hexavalent chromium (Cr VI)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Hexavalent chromium (Cr VI)	0.050	0.0483	96.6	(78.00 - 118.00)	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.0475	95.0	(78.00 - 118.00)	1.7
MBLK	Hexavalent chromium (Cr VI)	ND				
MS	Hexavalent chromium (Cr VI)	0.050	0.0483	96.6	(80.00 - 120.00)	
MSD	Hexavalent chromium (Cr VI)	0.050	0.0491	98.2	(80.00 - 120.00)	1.6

QC Batch #66832 Chloride

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Chloride	25	23.7	94.8	(90.00 - 110.00)	
LCS2	Chloride	25	23.8	95.2	(90.00 - 110.00)	0.42
MBLK	Chloride	ND				
MS	Chloride	25	25.0	100.0	(80.00 - 120.00)	
MSD	Chloride	25	25.0	100.0	(80.00 - 120.00)	0.00

QC Batch #66836 Nitrate-N by IC

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Nitrate-N by IC	2.5	2.34	93.6	(90.00 - 110.00)	
LCS2	Nitrate-N by IC	2.5	2.35	94.0	(90.00 - 110.00)	0.43
MBLK	Nitrate-N by IC	ND				
MS	Nitrate-N by IC	2.5	2.38	95.2	(90.00 - 110.00)	
MSD	Nitrate-N by IC	2.5	2.40	96.0	(90.00 - 110.00)	0.84

QC Batch #66837 Sulfate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Sulfate	50	46.8	93.6	(90.00 - 110.00)	
LCS2	Sulfate	50	46.9	93.8	(90.00 - 110.00)	0.21
MBLK	Sulfate	ND				
MS	Sulfate	50	50.5	101.0	(70.00 - 130.00)	
MSD	Sulfate	50	50.2	100.4	(70.00 - 130.00)	0.60

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

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QC Batch #67015 Alkalinity

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Alkalinity	96.2	97.2	101.0	(90.00 - 110.00)	
LCS2	Alkalinity	96.2	96.6	100.4	(90.00 - 110.00)	0.62
MBLK	Alkalinity	ND				
MS	Alkalinity	96.2	97.8	101.7	(80.00 - 120.00)	
MSD	Alkalinity	96.2	96.5	100.3	(80.00 - 120.00)	1.3

QC Batch #67091 Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	4	3.59	89.8	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	4.39	109.7	(70.00 - 130.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	3.86	96.5	(70.00 - 130.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	3.86	96.5	(70.00 - 130.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	3.60	90.0	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MBLK	1,1-Dichloropropene	ND				
MBLK	1,2,3-Trichlorobenzene	ND				
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	4	3.75	93.8	(70.00 - 130.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	4	3.85	96.2	(70.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	4	3.70	92.5	(70.00 - 130.00)	
MBLK	1,2-Dichloropropane	ND				
MBLK	1,3,5-Trimethylbenzene	ND				

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

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LCS1	1,3-Dichloropropane	8	7.68	96.0	(70.00 - 130.00)
MBLK	1,3-Dichloropropane	ND			
MBLK	2,2-Dichloropropane	ND			
MBLK	2-Butanone (MEK)	ND			
MBLK	2-Chloroethylvinylether	ND			
MBLK	4-Methyl-2-Pentanone (MIBK)	ND			
LCS1	Benzene	4	3.61	90.2	(70.00 - 130.00)
MBLK	Benzene	ND			
MBLK	Bromobenzene	ND			
MBLK	Bromochloromethane	ND			
LCS1	Bromodichloromethane	4	3.76	94.0	(70.00 - 130.00)
MBLK	Bromodichloromethane	ND			
LCS1	Bromoform	4	3.68	92.0	(70.00 - 130.00)
MBLK	Bromoform	ND			
MBLK	Bromomethane (Methyl Bromide)	ND			
LCS1	Carbon Tetrachloride	4	3.47	86.8	(70.00 - 130.00)
MBLK	Carbon Tetrachloride	ND			
LCS1	Chlorobenzene	4	3.73	93.2	(70.00 - 130.00)
MBLK	Chlorobenzene	ND			
LCS1	Chlorodibromomethane	4	3.70	92.5	(70.00 - 130.00)
MBLK	Chlorodibromomethane	ND			
MBLK	Chloroethane	ND			
LCS1	Chloroform (Trichloromethane)	4	3.75	93.8	(70.00 - 130.00)
MBLK	Chloroform (Trichloromethane)	ND			
MBLK	Chloromethane(Methyl Chloride)	ND			
MBLK	Dibromomethane	ND			
MBLK	Dichlorodifluoromethane	ND			
LCS1	Dichloromethane	4	4.14	103.5	(70.00 - 130.00)
MBLK	Dichloromethane	ND			
LCS1	Ethyl benzene	4	3.73	93.2	(70.00 - 130.00)
MBLK	Ethyl benzene	ND			
LCS1	Fluorotrichloromethane-Freon11	2	2.35	117.5	(70.00 - 130.00)
MBLK	Fluorotrichloromethane-Freon11	ND			
MBLK	Hexachlorobutadiene	ND			
MBLK	Isopropylbenzene	ND			
MBLK	Naphthalene	ND			
LCS1	Styrene	4	3.75	93.8	(70.00 - 130.00)

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

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Laboratory
QC Report
#37278

Foster Wheeler Environmental, Inc
(continued)

MBLK	Styrene	ND			
LCS1	Tetrachloroethylene (PCE)	4	3.65	91.2	(70.00 - 130.00)
MBLK	Tetrachloroethylene (PCE)	ND			
LCS1	Toluene	4	3.79	94.8	(70.00 - 130.00)
MBLK	Toluene	ND			
LCS1	Trichloroethylene (TCE)	4	3.52	88.0	(70.00 - 130.00)
MBLK	Trichloroethylene (TCE)	ND			
LCS1	Trichlorotrifluoroethane(Freon	2	2.27	113.5	(70.00 - 130.00)
MBLK	Trichlorotrifluoroethane(Freon	ND			
LCS1	Vinyl chloride (VC)	2	1.73	86.5	(70.00 - 130.00)
MBLK	Vinyl chloride (VC)	ND			
LCS1	cis-1,2-Dichloroethylene	4	3.26	81.5	(70.00 - 130.00)
MBLK	cis-1,2-Dichloroethylene	ND			
MBLK	cis-1,3-Dichloropropene	ND			
LCS1	m,p-Xylenes	8	7.23	90.4	(70.00 - 130.00)
MBLK	m,p-Xylenes	ND			
MBLK	m-Dichlorobenzene (1,3-DCB)	ND			
MBLK	n-Butylbenzene	ND			
MBLK	n-Propylbenzene	ND			
MBLK	o-Chlorotoluene	ND			
LCS1	o-Dichlorobenzene (1,2-DCB)	4	3.86	96.5	(70.00 - 130.00)
MBLK	o-Dichlorobenzene (1,2-DCB)	ND			
LCS1	o-Xylene	4	3.65	91.2	(70.00 - 130.00)
MBLK	o-Xylene	ND			
MBLK	p-Chlorotoluene	ND			
LCS1	p-Dichlorobenzene (1,4-DCB)	4	3.68	92.0	(70.00 - 130.00)
MBLK	p-Dichlorobenzene (1,4-DCB)	ND			
MBLK	p-Isopropyltoluene	ND			
MBLK	sec-Butylbenzene	ND			
MBLK	tert-Butylbenzene	ND			
LCS1	trans-1,2-Dichloroethylene	4	3.80	95.0	(70.00 - 130.00)
MBLK	trans-1,2-Dichloroethylene	ND			
MBLK	trans-1,3-Dichloropropene	ND			

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

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Laboratory
QC Report
#37278

Foster Wheeler Environmental, Inc
(continued)

QC Batch #67178 Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	4	3.66	91.5	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	4.21	105.2	(70.00 - 130.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	3.87	96.8	(70.00 - 130.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	3.78	94.5	(70.00 - 130.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	3.59	89.8	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MBLK	1,1-Dichloropropene	ND				
MBLK	1,2,3-Trichlorobenzene	ND				
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	4	3.40	85.0	(70.00 - 130.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	4	3.84	96.0	(70.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	4	3.71	92.8	(70.00 - 130.00)	
MBLK	1,2-Dichloropropane	ND				
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	8	7.54	94.2	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
MBLK	2,2-Dichloropropane	ND				
MBLK	2-Butanone (MEK)	ND				
MBLK	2-Chloroethylvinylether	ND				
MBLK	4-Methyl-2-Pentanone (MIBK)	ND				
LCS1	Benzene	4	3.42	85.5	(70.00 - 130.00)	
MBLK	Benzene	ND				
MBLK	Bromobenzene	ND				
MBLK	Bromochloromethane	ND				

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

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Foster Wheeler Environmental, Inc
(continued)

LCS1	Bromodichloromethane	4	3.84	96.0	(70.00 - 130.00)
MBLK	Bromodichloromethane	ND			
LCS1	Bromoform	4	3.79	94.8	(70.00 - 130.00)
MBLK	Bromoform	ND			
MBLK	Bromomethane (Methyl Bromide)	ND			
LCS1	Carbon Tetrachloride	4	3.36	84.0	(70.00 - 130.00)
MBLK	Carbon Tetrachloride	ND			
LCS1	Chlorobenzene	4	3.62	90.5	(70.00 - 130.00)
MBLK	Chlorobenzene	ND			
LCS1	Chlorodibromomethane	4	3.77	94.2	(70.00 - 130.00)
MBLK	Chlorodibromomethane	ND			
MBLK	Chloroethane	ND			
LCS1	Chloroform (Trichloromethane)	4	3.85	96.2	(70.00 - 130.00)
MBLK	Chloroform (Trichloromethane)	ND			
MBLK	Chloromethane(Methyl Chloride)	ND			
MBLK	Dibromomethane	ND			
MBLK	Dichlorodifluoromethane	ND			
LCS1	Dichloromethane	4	3.76	94.0	(70.00 - 130.00)
MBLK	Dichloromethane	ND			
LCS1	Ethyl benzene	4	3.59	89.8	(70.00 - 130.00)
MBLK	Ethyl benzene	ND			
LCS1	Fluorotrichloromethane-Freon11	2	2.32	116.0	(70.00 - 130.00)
MBLK	Fluorotrichloromethane-Freon11	ND			
MBLK	Hexachlorobutadiene	ND			
MBLK	Isopropylbenzene	ND			
MBLK	Naphthalene	ND			
LCS1	Styrene	4	3.78	94.5	(70.00 - 130.00)
MBLK	Styrene	ND			
LCS1	Tetrachloroethylene (PCE)	4	3.52	88.0	(70.00 - 130.00)
MBLK	Tetrachloroethylene (PCE)	ND			
LCS1	Toluene	4	3.51	87.8	(70.00 - 130.00)
MBLK	Toluene	ND			
LCS1	Trichloroethylene (TCE)	4	3.54	88.5	(70.00 - 130.00)
MBLK	Trichloroethylene (TCE)	ND			
LCS1	Trichlorotrifluoroethane(Freon	2	2.17	108.5	(70.00 - 130.00)
MBLK	Trichlorotrifluoroethane(Freon	ND			
LCS1	Vinyl chloride (VC)	2	1.79	89.5	(70.00 - 130.00)

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Criteria for MS and DUP are not applicable for ICR monitoring.

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Foster Wheeler Environmental, Inc
(continued)

MBLK	Vinyl chloride (VC)	ND			
LCS1	cis-1,2-Dichloroethylene	4	3.31	82.8	(70.00 - 130.00)
MBLK	cis-1,2-Dichloroethylene	ND			
MBLK	cis-1,3-Dichloropropene	ND			
LCS1	m,p-Xylenes	8	7.03	87.9	(70.00 - 130.00)
MBLK	m,p-Xylenes	ND			
MBLK	m-Dichlorobenzene (1,3-DCB)	ND			
MBLK	n-Butylbenzene	ND			
MBLK	n-Propylbenzene	ND			
MBLK	o-Chlorotoluene	ND			
LCS1	o-Dichlorobenzene (1,2-DCB)	4	3.65	91.2	(70.00 - 130.00)
MBLK	o-Dichlorobenzene (1,2-DCB)	ND			
LCS1	o-Xylene	4	3.62	90.5	(70.00 - 130.00)
MBLK	o-Xylene	ND			
MBLK	p-Chlorotoluene	ND			
LCS1	p-Dichlorobenzene (1,4-DCB)	4	3.58	89.5	(70.00 - 130.00)
MBLK	p-Dichlorobenzene (1,4-DCB)	ND			
MBLK	p-Isopropyltoluene	ND			
MBLK	sec-Butylbenzene	ND			
MBLK	tert-Butylbenzene	ND			
LCS1	trans-1,2-Dichloroethylene	4	3.60	90.0	(70.00 - 130.00)
MBLK	trans-1,2-Dichloroethylene	ND			
MBLK	trans-1,3-Dichloropropene	ND			

QC Batch #67291 Perchlorate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Perchlorate	20.0	19.6	98.0	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	19.6	98.0	(90.00 - 110.00)	0.00
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	19.1	95.5	(75.00 - 125.00)	
MSD	Perchlorate	20.0	19.1	95.5	(75.00 - 125.00)	0.00

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

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Foster Wheeler Environmental, Inc
(continued)

QC Batch #67388 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Total Dissolved Solid (TDS)	175	191	109.1	(85.00 - 115.00)	
LCS2	Total Dissolved Solid (TDS)	700	705	100.7	(85.00 - 115.00)	
MBLK	Total Dissolved Solid (TDS)	ND				

QC Batch #67578 Potassium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Potassium, Flame AA	20	20.1	100.5	(80.00 - 120.00)	
LCS2	Potassium, Flame AA	20	20.7	103.5	(80.00 - 120.00)	2.9
MBLK	Potassium, Flame AA	ND				
MS	Potassium, Flame AA	20	21.0	105.0	(85.00 - 115.00)	
MSD	Potassium, Flame AA	20	20.9	104.5	(85.00 - 115.00)	0.48

QC Batch #67580 Sodium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Sodium, Flame AA	50	48.0	96.0	(90.00 - 110.00)	
LCS2	Sodium, Flame AA	50	47.7	95.4	(90.00 - 110.00)	0.63
MBLK	Sodium, Flame AA	ND				
MS	Sodium, Flame AA	50	47.7	95.4	(85.00 - 115.00)	
MSD	Sodium, Flame AA	50	48.2	96.4	(85.00 - 115.00)	1.0

QC Batch #67585 Magnesium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Magnesium, Flame AA	20	19.2	96.0	(90.00 - 110.00)	
LCS2	Magnesium, Flame AA	20	18.8	94.0	(90.00 - 110.00)	2.1
MBLK	Magnesium, Flame AA	ND				
MS	Magnesium, Flame AA	20	19.7	98.5	(85.00 - 115.00)	

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

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Foster Wheeler Environmental, Inc
(continued)

MSD	Magnesium, Flame AA	20	20.1	100.5	(85.00 - 115.00)	2.0

QC Batch #67586 Calcium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Calcium, Flame AA	50	53.2	106.4	(90.00 - 110.00)	
LCS2	Calcium, Flame AA	50	52.6	105.2	(90.00 - 110.00)	1.1
MBLK	Calcium, Flame AA	ND				
MS	Calcium, Flame AA	50	54.8	109.6	(85.00 - 115.00)	
MSD	Calcium, Flame AA	50	55.3	110.6	(85.00 - 115.00)	0.91

QC Batch #68025 Arsenic, Total, GF

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Arsenic, Total, GF	0.020	0.0218	109.0	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.0224	112.0	(85.00 - 115.00)	2.7
MBLK	Arsenic, Total, GF	ND				
MS	Arsenic, Total, GF	0.020	0.0226	113.0	(85.00 - 115.00)	
MSD	Arsenic, Total, GF	0.020	0.0255	127.5	(85.00 - 115.00)	12

QC Batch #68333 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP/MS	100	105	105.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	107	107.0	(85.00 - 115.00)	1.9
MBLK	Chromium, Total, ICAP/MS	ND		0.0		
MS	Chromium, Total, ICAP/MS	100	100.	100.0	(70.00 - 130.00)	
MSD	Chromium, Total, ICAP/MS	100	102.	102.0	(70.00 - 130.00)	2.0

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

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Laboratory
QC Report
#37278

Foster Wheeler Environmental, Inc
(continued)

QC Batch #68335 Iron, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Iron, Total, ICAP/MS	500	489	97.8	(85.00 - 115.00)	
LCS2	Iron, Total, ICAP/MS	500	505	101.0	(85.00 - 115.00)	3.2
MBLK	Iron, Total, ICAP/MS	ND		0.0		
MS	Iron, Total, ICAP/MS	500	508.	102.0	(70.00 - 130.00)	
MSD	Iron, Total, ICAP/MS	500	523.	105.0	(70.00 - 130.00)	2.9

QC Batch #68337 Lead, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Lead, Total, ICAP/MS	20	20.3	101.5	(85.00 - 115.00)	
LCS2	Lead, Total, ICAP/MS	20	20.3	101.5	(85.00 - 115.00)	0.00
MBLK	Lead, Total, ICAP/MS	ND		0.0		
MS	Lead, Total, ICAP/MS	20	20.2	100.5	(70.00 - 130.00)	
MSD	Lead, Total, ICAP/MS	20	20.3	102.0	(70.00 - 130.00)	0.49

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

November 3, 1997

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

Attention: Mark Cutler

Re: Report # 37332(MW-973-88, -89, -50, -52, -52MS, -52MSD)

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):
(As-GF) QC batch 68025, Arsenic MSD recovery exceeds the Limits Of 85-115 at 127% recovery. The MS and a spike addition on the same sample had acceptable recoveries. The RPD of the MS/MSD was 12%, within acceptable limits. The sample spiked was not a part of this days sampling event.

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

Method blanks with compounds detected:
NONE

Other Comments:
Chloroform was detected in sample ID: MW-973-89, -50
Dichloromethane was detected in sample ID: MW-973-89
Tetrachloroethylene (PCE) was detected in sample ID: MW-973-52
Toluene was detected in sample ID: MW-973-52
Perchlorate is ND, but quantifiable, in sample ID: MW-973-52

TIC
A VOC of unknown identification (RT= 6:40) was detected in sample ID: MW-973-88

Sincerely,

Debbie Frank
Project Manager

cc: Judy Novelly (JPL)

MONTGOMERY WATSON LABORATORIES

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Pasadena, California 91101
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Laboratory Report #37332

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

Samples Received
19-sep-1997 16:21:10

MW-973-88 (970919195) Sampled on 09/19/97

Regulated VOCs plus Lists 1&3

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/23/97	67091	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	09/23/97	67091	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	09/23/97	67091	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/23/97	67091	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	Unknown RT 6.40	1.5 B	ug/L		1
			(Surrogate)	1,2-Dichloroethane-d4	115	% Rec		
			(Surrogate)	4-Bromofluorobenzene	90	% Rec		
			(Surrogate)	Toluene-d8	103	% Rec		

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-973-89 (970919196) Sampled on 09/19/97								
10/07/97	10/22/97	68025	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	10/04/97	67291	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
10/07/97	10/17/97	68333	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	09/19/97	66683	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
10/07/97	10/17/97	68337	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
			Regulated VOCs plus Lists 1&3					
	09/23/97	67091	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	09/23/97	67091	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	09/23/97	67091	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/23/97	67091	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Chloroform (Trichloromethane)	1.5	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Dichloromethane	0.5	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	109	% Rec		
			(Surrogate)	4-Bromofluorobenzene	101	% Rec		

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
			(Surrogate)	Toluene-d8	106	% Rec		
MW-973-50 (970919197)			**Sampled on 09/19/97**					
	09/23/97	67015	(ML/S2320B)	Alkalinity	130	mg/l	2.0	1
	10/13/97		(ML/SM1040)	Anion Sum	3.31	meq/l	0.0010	1
10/07/97	10/22/97	68025	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	10/08/97	67586	(ML/S3111B)	Calcium, Flame AA	37	mg/l	1.0	1
	10/14/97		(ML/SM1040)	Cation Sum	3.42	meq/l	0.0010	1
	09/20/97	66849	(ML/EPA 300)	Chloride	6.1	mg/l	1.0	1
	10/04/97	67291	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	10/09/97		(ML/S2320-B)	Carbonate as CO3, Calculated	0.325	mg/l	0.0010	1
10/07/97	10/17/97	68333	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	09/19/97	66683	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	09/25/97		(ML/S2510B)	Specific Conductance	325	umho/cm	4.0	1
10/07/97	10/17/97	68335	(EPA/ML 200.8)	Iron, Total, ICAP/MS	ND	ug/l	100	1
	10/09/97		(ML/S2320B)	Bicarbonate as HCO3,calculated	158	mg/l	0.0010	1
	10/08/97	67578	(ML/S3111B)	Potassium, Flame AA	2.5	mg/l	1.0	1
	10/08/97	67585	(ML/S3111B)	Magnesium, Flame AA	12	mg/l	1.0	1
	10/08/97	67580	(ML/S3111B)	Sodium, Flame AA	12	mg/l	1.0	1
	09/20/97	66850	(ML/EPA 300.0)	Nitrate-N by IC	0.8	mg/l	0.10	1
10/07/97	10/17/97	68337	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	09/23/97		(ML/SM 4500H)	Lab pH	7.5	Units	0.0010	1
	09/20/97	66852	(ML/EPA 300.0)	Sulfate	23	mg/l	2.0	1
	09/25/97	67388	(ML/S2540C)	Total Dissolved Solid (TDS)	180	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	09/23/97	67091	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/23/97	67091	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	09/23/97	67091	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	09/23/97	67091	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Chloroform (Trichloromethane)	1.4	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/23/97	67091	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	120	% Rec		
			(Surrogate)	4-Bromofluorobenzene	104	% Rec		
			(Surrogate)	Toluene-d8	94	% Rec		

MW-973-52 (970919198) Sampled on 09/19/97

	09/23/97	67015	(ML/S2320B)	Alkalinity	200	mg/l	2.0	1
	10/13/97		(ML/SM1040)	Anion Sum	7.99	meq/l	0.0010	1
10/07/97	10/22/97	68025	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	10/08/97	67586	(ML/S3111B)	Calcium, Flame AA	86	mg/l	1.0	1
	10/14/97		(ML/SM1040)	Cation Sum	8.10	meq/l	0.0010	1
	09/20/97	66849	(ML/EPA 300)	Chloride	70	mg/l	1.0	1
	10/04/97	67291	(MOD/EPA 300)	Perchlorate	ND (3.8)	ug/l	4.0	1
	10/09/97		(ML/S2320-B)	Carbonate as CO3, Calculated	0.251	mg/l	0.0010	1
10/07/97	10/17/97	68333	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	09/19/97	66683	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	09/25/97		(ML/S2510B)	Specific Conductance	815	umho/cm	4.0	1
10/07/97	10/17/97	68335	(EPA/ML 200.8)	Iron, Total, ICAP/MS	620	ug/l	100	1
	10/09/97		(ML/S2320B)	Bicarbonate as HCO3,calculated	244	mg/l	0.0010	1
	10/08/97	67578	(ML/S3111B)	Potassium, Flame AA	2.6	mg/l	1.0	1
	10/08/97	67585	(ML/S3111B)	Magnesium, Flame AA	30	mg/l	1.0	1
	10/08/97	67580	(ML/S3111B)	Sodium, Flame AA	29	mg/l	1.0	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/20/97	66850	(ML/EPA 300.0)	Nitrate-N by IC	9.0	mg/l	0.10	1
10/07/97	10/17/97	68337	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	09/23/97		(ML/SM 4500H)	Lab pH	7.2	Units	0.0010	1
	09/20/97	66852	(ML/EPA 300.0)	Sulfate	66	mg/l	2.0	1
	09/25/97	67388	(ML/S2540C)	Total Dissolved Solid (TDS)	460	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	09/23/97	67091	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	09/23/97	67091	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	09/23/97	67091	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/23/97	67091	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	1.5	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Toluene	0.6	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	118	% Rec		
			(Surrogate)	4-Bromofluorobenzene	101	% Rec		
			(Surrogate)	Toluene-d8	105	% Rec		

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-973-52MS (970919199) Sampled on 09/19/97								
			Regulated VOCs plus Lists 1&3					
	09/23/97	67091	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,1,1-Trichloroethane	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,1,2-Trichloroethane	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,1-Dichloroethane	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,1-Dichloroethylene	3.67	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,1-Dichloropropene	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,2,3-Trichloropropane	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	3.28	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,2-Dichloroethane	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,2-Dichloropropane	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,3-Dichloropropane	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	3.53	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	2,2-Dichloropropane	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	2-Butanone (MEK)	NA	ug/l	5.0	1
	09/23/97	67091	(ML/EPA 524.2)	o-Chlorotoluene	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	p-Chlorotoluene	3.47	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	NA	ug/l	5.0	1
	09/23/97	67091	(ML/EPA 524.2)	Benzene	3.60	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Bromobenzene	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Chlorobenzene	3.53	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Carbon Tetrachloride	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	cis-1,3-Dichloropropene	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Bromoform	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Chloroform (Trichloromethane)	4.69	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Bromochloromethane	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Chloroethane	NA	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/23/97	67091	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Chlorodibromomethane	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Dibromomethane	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Bromodichloromethane	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Dichloromethane	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Ethyl benzene	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Dichlorodifluoromethane	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Hexachlorobutadiene	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Isopropylbenzene	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	m,p-Xylenes	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Naphthalene	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	n-Butylbenzene	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	n-Propylbenzene	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	o-Xylene	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	p-Isopropyltoluene	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	sec-Butylbenzene	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Styrene	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	tert-Butylbenzene	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Trichloroethylene (TCE)	3.99	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	trans-1,3-Dichloropropene	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Toluene	3.65	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Vinyl chloride (VC)	NA	ug/l	0.30	1
			(Surrogate)	1,2-Dichloroethane-d4	119	% Rec		
			(Surrogate)	4-Bromofluorobenzene	99	% Rec		
			(Surrogate)	Toluene-d8	98	% Rec		

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-973-52MSD (970919200) Sampled on 09/19/97								
				Regulated VOCs plus Lists 1&3				
	09/23/97	67091	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,1,1-Trichloroethane	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,1,2-Trichloroethane	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,1-Dichloroethane	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,1-Dichloroethylene	3.77	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,1-Dichloropropene	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,2,3-Trichloropropane	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	3.35	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,2-Dichloroethane	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,2-Dichloropropane	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	1,3-Dichloropropane	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	3.61	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	2,2-Dichloropropane	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	2-Butanone (MEK)	NA	ug/l	5.0	1
	09/23/97	67091	(ML/EPA 524.2)	o-Chlorotoluene	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	p-Chlorotoluene	3.57	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	NA	ug/l	5.0	1
	09/23/97	67091	(ML/EPA 524.2)	Benzene	3.70	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Bromobenzene	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Chlorobenzene	3.48	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Carbon Tetrachloride	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	cis-1,3-Dichloropropene	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Bromoform	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Chloroform (Trichloromethane)	4.61	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Bromochloromethane	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Chloroethane	NA	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/23/97	67091	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Chlorodibromomethane	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Dibromomethane	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Bromodichloromethane	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Dichloromethane	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Ethyl benzene	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Dichlorodifluoromethane	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Hexachlorobutadiene	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Isopropylbenzene	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	m,p-Xylenes	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Naphthalene	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	n-Butylbenzene	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	n-Propylbenzene	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	o-Xylene	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	p-Isopropyltoluene	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	sec-Butylbenzene	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Styrene	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	tert-Butylbenzene	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Trichloroethylene (TCE)	4.00	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	trans-1,3-Dichloropropene	NA	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Toluene	3.47	ug/l	0.50	1
	09/23/97	67091	(ML/EPA 524.2)	Vinyl chloride (VC)	NA	ug/l	0.30	1
			(Surrogate)	1,2-Dichloroethane-d4	115	% Rec		
			(Surrogate)	4-Bromofluorobenzene	98	% Rec		
			(Surrogate)	Toluene-d8	103	% Rec		

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Report Comments #37332

Group Comments

(As-GF) Sample 970916207 was spiked for MS/MSD. The MSD recovery was high bias, out side the 85-115% limit. The RPD was 12% and a spike addition recovery was 106%. The high bias recovery does not effect the spiked sample result, since it was found to be ND. No further action was taken.

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Laboratory QC Report #37332

Foster Wheeler Environmental, Inc

QC Batch #66683 Hexavalent chromium (Cr VI)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Hexavalent chromium (Cr VI)	0.050	0.0517	103.2	(78.00 - 118.00)	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.0501	100.0	(78.00 - 118.00)	3.1
MBLK	Hexavalent chromium (Cr VI)	ND				
MS	Hexavalent chromium (Cr VI)	0.050	0.0469	94.0	(80.00 - 120.00)	
MSD	Hexavalent chromium (Cr VI)	0.050	0.0501	100.0	(80.00 - 120.00)	6.6

QC Batch #66849 Chloride

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Chloride	25	23.7	94.8	(90.00 - 110.00)	
LCS2	Chloride	25	23.8	95.2	(90.00 - 110.00)	0.42
MBLK	Chloride	ND				
MS	Chloride	25	24.6	98.4	(80.00 - 120.00)	
MSD	Chloride	25	24.7	98.8	(80.00 - 120.00)	0.41

QC Batch #66850 Nitrate-N by IC

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Nitrate-N by IC	2.5	2.32	92.8	(90.00 - 110.00)	
LCS2	Nitrate-N by IC	2.5	2.35	94.0	(90.00 - 110.00)	1.3
MBLK	Nitrate-N by IC	ND				
MS	Nitrate-N by IC	2.5	2.37	94.8	(90.00 - 110.00)	
MSD	Nitrate-N by IC	2.5	2.38	95.2	(90.00 - 110.00)	0.42

QC Batch #66852 Sulfate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Sulfate	50	46.6	93.2	(90.00 - 110.00)	
LCS2	Sulfate	50	47.0	94.0	(90.00 - 110.00)	0.85
MBLK	Sulfate	ND				
MS	Sulfate	50	50.0	100.0	(70.00 - 130.00)	
MSD	Sulfate	50	50.1	100.2	(70.00 - 130.00)	0.20

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

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Foster Wheeler Environmental, Inc
(continued)

QC Batch #67015 Alkalinity

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Alkalinity	96.2	97.2	101.0	(90.00 - 110.00)	
LCS2	Alkalinity	96.2	96.6	100.4	(90.00 - 110.00)	0.62
MBLK	Alkalinity	ND				
MS	Alkalinity	96.2	97.8	101.7	(80.00 - 120.00)	
MSD	Alkalinity	96.2	96.5	100.3	(80.00 - 120.00)	1.3

QC Batch #67091 Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	4	3.59	89.8	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	4.39	109.7	(70.00 - 130.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	3.86	96.5	(70.00 - 130.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	3.86	96.5	(70.00 - 130.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	3.60	90.0	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MBLK	1,1-Dichloropropene	ND				
MBLK	1,2,3-Trichlorobenzene	ND				
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	4	3.75	93.8	(70.00 - 130.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	4	3.85	96.2	(70.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	4	3.70	92.5	(70.00 - 130.00)	
MBLK	1,2-Dichloropropane	ND				
MBLK	1,3,5-Trimethylbenzene	ND				

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Criteria for MS and DUP are not applicable for ICR monitoring.

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Foster Wheeler Environmental, Inc
(continued)

LCS1	1,3-Dichloropropane	8	7.68	96.0	(70.00 - 130.00)
MBLK	1,3-Dichloropropane	ND			
MBLK	2,2-Dichloropropane	ND			
MBLK	2-Butanone (MEK)	ND			
MBLK	2-Chloroethylvinylether	ND			
MBLK	4-Methyl-2-Pentanone (MIBK)	ND			
LCS1	Benzene	4	3.61	90.2	(70.00 - 130.00)
MBLK	Benzene	ND			
MBLK	Bromobenzene	ND			
MBLK	Bromochloromethane	ND			
LCS1	Bromodichloromethane	4	3.76	94.0	(70.00 - 130.00)
MBLK	Bromodichloromethane	ND			
LCS1	Bromoform	4	3.68	92.0	(70.00 - 130.00)
MBLK	Bromoform	ND			
MBLK	Bromomethane (Methyl Bromide)	ND			
LCS1	Carbon Tetrachloride	4	3.47	86.8	(70.00 - 130.00)
MBLK	Carbon Tetrachloride	ND			
LCS1	Chlorobenzene	4	3.73	93.2	(70.00 - 130.00)
MBLK	Chlorobenzene	ND			
LCS1	Chlorodibromomethane	4	3.70	92.5	(70.00 - 130.00)
MBLK	Chlorodibromomethane	ND			
MBLK	Chloroethane	ND			
LCS1	Chloroform (Trichloromethane)	4	3.75	93.8	(70.00 - 130.00)
MBLK	Chloroform (Trichloromethane)	ND			
MBLK	Chloromethane(Methyl Chloride)	ND			
MBLK	Dibromomethane	ND			
MBLK	Dichlorodifluoromethane	ND			
LCS1	Dichloromethane	4	4.14	103.5	(70.00 - 130.00)
MBLK	Dichloromethane	ND			
LCS1	Ethyl benzene	4	3.73	93.2	(70.00 - 130.00)
MBLK	Ethyl benzene	ND			
LCS1	Fluorotrichloromethane-Freon11	2	2.35	117.5	(70.00 - 130.00)
MBLK	Fluorotrichloromethane-Freon11	ND			
MBLK	Hexachlorobutadiene	ND			
MBLK	Isopropylbenzene	ND			
MBLK	Naphthalene	ND			
LCS1	Styrene	4	3.75	93.8	(70.00 - 130.00)

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

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QC Report
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Foster Wheeler Environmental, Inc
(continued)

MBLK	Styrene	ND			
LCS1	Tetrachloroethylene (PCE)	4	3.65	91.2	(70.00 - 130.00)
MBLK	Tetrachloroethylene (PCE)	ND			
LCS1	Toluene	4	3.79	94.8	(70.00 - 130.00)
MBLK	Toluene	ND			
LCS1	Trichloroethylene (TCE)	4	3.52	88.0	(70.00 - 130.00)
MBLK	Trichloroethylene (TCE)	ND			
LCS1	Trichlorotrifluoroethane(Freon	2	2.27	113.5	(70.00 - 130.00)
MBLK	Trichlorotrifluoroethane(Freon	ND			
LCS1	Vinyl chloride (VC)	2	1.73	86.5	(70.00 - 130.00)
MBLK	Vinyl chloride (VC)	ND			
LCS1	cis-1,2-Dichloroethylene	4	3.26	81.5	(70.00 - 130.00)
MBLK	cis-1,2-Dichloroethylene	ND			
MBLK	cis-1,3-Dichloropropene	ND			
LCS1	m,p-Xylenes	8	7.23	90.4	(70.00 - 130.00)
MBLK	m,p-Xylenes	ND			
MBLK	m-Dichlorobenzene (1,3-DCB)	ND			
MBLK	n-Butylbenzene	ND			
MBLK	n-Propylbenzene	ND			
MBLK	o-Chlorotoluene	ND			
LCS1	o-Dichlorobenzene (1,2-DCB)	4	3.86	96.5	(70.00 - 130.00)
MBLK	o-Dichlorobenzene (1,2-DCB)	ND			
LCS1	o-Xylene	4	3.65	91.2	(70.00 - 130.00)
MBLK	o-Xylene	ND			
MBLK	p-Chlorotoluene	ND			
LCS1	p-Dichlorobenzene (1,4-DCB)	4	3.68	92.0	(70.00 - 130.00)
MBLK	p-Dichlorobenzene (1,4-DCB)	ND			
MBLK	p-Isopropyltoluene	ND			
MBLK	sec-Butylbenzene	ND			
MBLK	tert-Butylbenzene	ND			
LCS1	trans-1,2-Dichloroethylene	4	3.80	95.0	(70.00 - 130.00)
MBLK	trans-1,2-Dichloroethylene	ND			
MBLK	trans-1,3-Dichloropropene	ND			

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

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Foster Wheeler Environmental, Inc
(continued)

QC Batch #67291 Perchlorate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Perchlorate	20.0	19.6	98.0	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	19.6	98.0	(90.00 - 110.00)	0.00
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	19.1	95.5	(75.00 - 125.00)	
MSD	Perchlorate	20.0	19.1	95.5	(75.00 - 125.00)	0.00

QC Batch #67388 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Total Dissolved Solid (TDS)	175	191	109.1	(85.00 - 115.00)	
LCS2	Total Dissolved Solid (TDS)	700	705	100.7	(85.00 - 115.00)	
MBLK	Total Dissolved Solid (TDS)	ND				

QC Batch #67578 Potassium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Potassium, Flame AA	20	20.1	100.5	(80.00 - 120.00)	
LCS2	Potassium, Flame AA	20	20.7	103.5	(80.00 - 120.00)	2.9
MBLK	Potassium, Flame AA	ND				
MS	Potassium, Flame AA	20	21.0	105.0	(85.00 - 115.00)	
MSD	Potassium, Flame AA	20	20.9	104.5	(85.00 - 115.00)	0.48

QC Batch #67580 Sodium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Sodium, Flame AA	50	48.0	96.0	(90.00 - 110.00)	
LCS2	Sodium, Flame AA	50	47.7	95.4	(90.00 - 110.00)	0.63
MBLK	Sodium, Flame AA	ND				
MS	Sodium, Flame AA	50	47.7	95.4	(85.00 - 115.00)	

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

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MSD	Sodium, Flame AA	50	48.2	96.4	(85.00 - 115.00)	1.0

QC Batch #67585 Magnesium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Magnesium, Flame AA	20	19.2	96.0	(90.00 - 110.00)	
LCS2	Magnesium, Flame AA	20	18.8	94.0	(90.00 - 110.00)	2.1
MBLK	Magnesium, Flame AA	ND				
MS	Magnesium, Flame AA	20	19.7	98.5	(85.00 - 115.00)	
MSD	Magnesium, Flame AA	20	20.1	100.5	(85.00 - 115.00)	2.0

QC Batch #67586 Calcium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Calcium, Flame AA	50	53.2	106.4	(90.00 - 110.00)	
LCS2	Calcium, Flame AA	50	52.6	105.2	(90.00 - 110.00)	1.1
MBLK	Calcium, Flame AA	ND				
MS	Calcium, Flame AA	50	54.8	109.6	(85.00 - 115.00)	
MSD	Calcium, Flame AA	50	55.3	110.6	(85.00 - 115.00)	0.91

QC Batch #68025 Arsenic, Total, GF

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Arsenic, Total, GF	0.020	0.0218	109.0	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.0224	112.0	(85.00 - 115.00)	2.7
MBLK	Arsenic, Total, GF	ND				
MS	Arsenic, Total, GF	0.020	0.0226	113.0	(85.00 - 115.00)	
MSD	Arsenic, Total, GF	0.020	0.0255	127.5	(85.00 - 115.00)	12

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

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Foster Wheeler Environmental, Inc
(continued)

QC Batch #68333 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP/MS	100	105	105.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	107	107.0	(85.00 - 115.00)	1.9
MBLK	Chromium, Total, ICAP/MS	ND		0.0		
MS	Chromium, Total, ICAP/MS	100	100.	100.0	(70.00 - 130.00)	
MSD	Chromium, Total, ICAP/MS	100	102.	102.0	(70.00 - 130.00)	2.0

QC Batch #68335 Iron, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Iron, Total, ICAP/MS	500	489	97.8	(85.00 - 115.00)	
LCS2	Iron, Total, ICAP/MS	500	505	101.0	(85.00 - 115.00)	3.2
MBLK	Iron, Total, ICAP/MS	ND		0.0		
MS	Iron, Total, ICAP/MS	500	508.	102.0	(70.00 - 130.00)	
MSD	Iron, Total, ICAP/MS	500	523.	105.0	(70.00 - 130.00)	2.9

QC Batch #68337 Lead, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Lead, Total, ICAP/MS	20	20.3	101.5	(85.00 - 115.00)	
LCS2	Lead, Total, ICAP/MS	20	20.3	101.5	(85.00 - 115.00)	0.00
MBLK	Lead, Total, ICAP/MS	ND		0.0		
MS	Lead, Total, ICAP/MS	20	20.2	100.5	(70.00 - 130.00)	
MSD	Lead, Total, ICAP/MS	20	20.3	102.0	(70.00 - 130.00)	0.49

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

November 3, 1997

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

Attention: Mark Cutler

Re: Report # 37349 (MW-973-90, -91, -51, -59, -58, -57, -56)

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:
(Pb-MS) Lead was detected in the blank above the IDL at 0.8ppb. All samples were non detect, ''ND'', at less than 0.5ppb (the IDL). All samples reported as ND.
Other Comments:
Chloroform was detected in sample ID: MW-973-91, -56
Bromodichloromethane was detected in sample ID: MW-973-56
TIC
A VOC of unknown identification (RT= 6:41) was detected in sample ID: MW-973-90

Sincerely,

Debbie Frank
Project Manager

cc: Judy Novelly (JPL)

MONTGOMERY WATSON LABORATORIES

555 East Walnut Street
Pasadena, California 91101
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Laboratory Report #37349

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

Samples Received
22-sep-1997 17:08:55

MW-973-90 (970922049) Sampled on 09/22/97

Regulated VOCs plus Lists 1&3

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/24/97	67178	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	09/24/97	67178	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	09/24/97	67178	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/24/97	67178	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	Unknown RT(6.41)	1.1	ug/L		1
			(Surrogate)	1,2-Dichloroethane-d4	116	% Rec		
			(Surrogate)	4-Bromofluorobenzene	97	% Rec		
			(Surrogate)	Toluene-d8	102	% Rec		

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-973-91 (970922050)				**Sampled on 09/22/97**				
10/07/97	10/23/97	68150	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	10/04/97	67291	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
10/07/97	10/17/97	68334	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	09/23/97	66791	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
10/07/97	10/17/97	68338	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
				Regulated VOCs plus Lists 1&3				
	09/24/97	67178	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	09/24/97	67178	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	09/24/97	67178	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/24/97	67178	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Chloroform (Trichloromethane)	1.8	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	09/24/97	67178	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	112	% Rec		
			(Surrogate)	4-Bromofluorobenzene	92	% Rec		

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
			(Surrogate	) Toluene-d8	104	% Rec		
MW-973-51 (970922051)			**Sampled on 09/22/97**					
	09/23/97	67015	(ML/S2320B	) Alkalinity	145	mg/l	2.0	1
	10/13/97		(ML/SM1040	) Anion Sum	4.92	meq/l	0.0010	1
10/07/97	10/23/97	68150	(S3113B/E200.9	) Arsenic, Total, GF	ND	mg/l	0.005	1
	10/08/97	67586	(ML/S3111B	) Calcium, Flame AA	55	mg/l	1.0	1
	10/14/97		(ML/SM1040	) Cation Sum	4.97	meq/l	0.0010	1
	09/23/97	66916	(ML/EPA 300	) Chloride	28	mg/l	1.0	1
	10/04/97	67292	(MOD/EPA 300	) Perchlorate	ND	ug/l	4.0	1
	10/09/97		(ML/S2320-B	) Carbonate as CO3, Calculated	0.091	mg/l	0.0010	1
10/07/97	10/17/97	68334	(EPA/MS 200.8	) Chromium, Total, ICAP/MS	ND	ug/l	10	1
	09/23/97	66791	(ML/SW 7196	) Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	09/25/97		(ML/S2510B	) Specific Conductance	475	umho/cm	4.0	1
10/07/97	10/17/97	68336	(EPA/ML 200.8	) Iron, Total, ICAP/MS	ND	ug/l	100	1
	10/09/97		(ML/S2320B	) Bicarbonate as HCO3,calculated	177	mg/l	0.0010	1
	10/08/97	67578	(ML/S3111B	) Potassium, Flame AA	1.9	mg/l	1.0	1
	10/08/97	67585	(ML/S3111B	) Magnesium, Flame AA	19	mg/l	1.0	1
	10/08/97	67580	(ML/S3111B	) Sodium, Flame AA	14	mg/l	1.0	1
	09/23/97	66918	(ML/EPA 300.0	) Nitrate-N by IC	3.2	mg/l	0.10	1
10/07/97	10/17/97	68338	(EPA/ML 200.8	) Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	09/23/97		(ML/SM 4500H	) Lab pH	6.9	Units	0.0010	1
	09/23/97	66919	(ML/EPA 300.0	) Sulfate	48	mg/l	2.0	1
	09/29/97	67152	(ML/S2540C	) Total Dissolved Solid (TDS)	290	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	09/25/97	67182	(ML/EPA 524.2	) 1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2	) 1,1,1-Trichloroethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2	) 1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2	) 1,1,2-Trichloroethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2	) 1,1-Dichloroethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2	) 1,1-Dichloroethylene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2	) 1,1-Dichloropropene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2	) 1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2	) 1,2,3-Trichloropropane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2	) 1,2,4-Trichlorobenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/25/97	67182	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	09/25/97	67182	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	09/25/97	67182	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/25/97	67182	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	09/25/97	67182	(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	99	% Rec		
			(Surrogate)	4-Bromofluorobenzene	105	% Rec		
			(Surrogate)	Toluene-d8	94	% Rec		

MW-973-59 (970922052) Sampled on 09/22/97

	09/23/97	67015	(ML/S2320B)	Alkalinity	155	mg/l	2.0	1
	10/13/97		(ML/SM1040)	Anion Sum	3.75	meq/l	0.0010	1
10/07/97	10/23/97	68150	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	10/08/97	67586	(ML/S3111B)	Calcium, Flame AA	7.3	mg/l	1.0	1
	10/14/97		(ML/SM1040)	Cation Sum	3.79	meq/l	0.0010	1
	09/23/97	66916	(ML/EPA 300)	Chloride	8.3	mg/l	1.0	1
	10/04/97	67292	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	10/09/97		(ML/S2320-B)	Carbonate as CO3, Calculated	18.6	mg/l	0.0010	1
10/07/97	10/17/97	68334	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	09/23/97	66791	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	09/25/97		(ML/S2510B)	Specific Conductance	360	umho/cm	4.0	1
10/07/97	10/17/97	68336	(EPA/ML 200.8)	Iron, Total, ICAP/MS	ND	ug/l	100	1
	10/09/97		(ML/S2320B)	Bicarbonate as HCO3,calculated	181	mg/l	0.0010	1
	10/08/97	67578	(ML/S3111B)	Potassium, Flame AA	1.4	mg/l	1.0	1
	10/08/97	67585	(ML/S3111B)	Magnesium, Flame AA	1.6	mg/l	1.0	1
	10/08/97	67580	(ML/S3111B)	Sodium, Flame AA	75	mg/l	1.0	1

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Foster Wheeler Environmental, Inc
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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/23/97	66918	(ML/EPA 300.0)	Nitrate-N by IC	ND	mg/l	0.10	1
10/07/97	10/17/97	68338	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	09/23/97		(ML/SM 4500H)	Lab pH	9.2	Units	0.0010	1
	09/23/97	66919	(ML/EPA 300.0)	Sulfate	20	mg/l	2.0	1
	09/29/97	67152	(ML/S2540C)	Total Dissolved Solid (TDS)	240	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	09/25/97	67182	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	09/25/97	67182	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	09/25/97	67182	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/25/97	67182	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	09/25/97	67182	(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	102	% Rec		
			(Surrogate)	Toluene-d8	96	% Rec		

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-973-58 (970922053) Sampled on 09/22/97								
	09/23/97	67015	(ML/S2320B)	Alkalinity	130	mg/l	2.0	1
	10/13/97		(ML/SM1040)	Anion Sum	3.24	meq/l	0.0010	1
10/07/97	10/23/97	68150	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	10/08/97	67586	(ML/S3111B)	Calcium, Flame AA	10	mg/l	1.0	1
	10/14/97		(ML/SM1040)	Cation Sum	3.29	meq/l	0.0010	1
	09/23/97	66916	(ML/EPA 300)	Chloride	10	mg/l	1.0	1
	10/04/97	67292	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	10/09/97		(ML/S2320-B)	Carbonate as CO3, Calculated	5.08	mg/l	0.0010	1
10/07/97	10/17/97	68334	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	09/23/97	66791	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	09/25/97		(ML/S2510B)	Specific Conductance	315	umho/cm	4.0	1
10/07/97	10/17/97	68336	(EPA/ML 200.8)	Iron, Total, ICAP/MS	120	ug/l	100	1
	10/09/97		(ML/S2320B)	Bicarbonate as HCO3,calculated	156	mg/l	0.0010	1
	10/08/97	67578	(ML/S3111B)	Potassium, Flame AA	1.1	mg/l	1.0	1
	10/08/97	67585	(ML/S3111B)	Magnesium, Flame AA	2.9	mg/l	1.0	1
	10/08/97	67580	(ML/S3111B)	Sodium, Flame AA	58	mg/l	1.0	1
	09/23/97	66918	(ML/EPA 300.0)	Nitrate-N by IC	ND	mg/l	0.10	1
10/07/97	10/17/97	68338	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	09/23/97		(ML/SM 4500H)	Lab pH	8.7	Units	0.0010	1
	09/23/97	66919	(ML/EPA 300.0)	Sulfate	17	mg/l	2.0	1
	09/29/97	67152	(ML/S2540C)	Total Dissolved Solid (TDS)	190	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	09/25/97	67182	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/25/97	67182	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	09/25/97	67182	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	09/25/97	67182	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1

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(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/25/97	67182	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	09/25/97	67182	(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	101	% Rec		
			(Surrogate)	Toluene-d8	97	% Rec		

MW-973-57 (970922054) Sampled on 09/22/97

	09/23/97	67015	(ML/S2320B)	Alkalinity	165	mg/l	2.0	1
	10/13/97		(ML/SM1040)	Anion Sum	4.46	meq/l	0.0010	1
10/07/97	10/23/97	68150	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	10/08/97	67586	(ML/S3111B)	Calcium, Flame AA	20	mg/l	1.0	1
	10/14/97		(ML/SM1040)	Cation Sum	4.44	meq/l	0.0010	1
	09/23/97	66916	(ML/EPA 300)	Chloride	25	mg/l	1.0	1
	10/04/97	67292	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	10/09/97		(ML/S2320-B)	Carbonate as CO3, Calculated	5.15	mg/l	0.0010	1
10/07/97	10/17/97	68334	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	09/23/97	66791	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	09/25/97		(ML/S2510B)	Specific Conductance	430	umho/cm	4.0	1
10/07/97	10/17/97	68336	(EPA/ML 200.8)	Iron, Total, ICAP/MS	ND	ug/l	100	1
	10/09/97		(ML/S2320B)	Bicarbonate as HCO3,calculated	199	mg/l	0.0010	1
	10/08/97	67578	(ML/S3111B)	Potassium, Flame AA	2.4	mg/l	1.0	1
	10/08/97	67585	(ML/S3111B)	Magnesium, Flame AA	12	mg/l	1.0	1
	10/08/97	67580	(ML/S3111B)	Sodium, Flame AA	55	mg/l	1.0	1
	09/23/97	66918	(ML/EPA 300.0)	Nitrate-N by IC	1.1	mg/l	0.10	1

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(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
10/07/97	10/17/97	68338	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	09/23/97		(ML/SM 4500H)	Lab pH	8.6	Units	0.0010	1
	09/23/97	66919	(ML/EPA 300.0)	Sulfate	18	mg/l	2.0	1
	09/29/97	67152	(ML/S2540C)	Total Dissolved Solid (TDS)	290	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	09/25/97	67182	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	09/25/97	67182	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	09/25/97	67182	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/25/97	67182	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	98	% Rec		
			(Surrogate)	4-Bromofluorobenzene	103	% Rec		
			(Surrogate)	Toluene-d8	97	% Rec		

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Laboratory
Report
#37349

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-973-56 (970922055)			**Sampled on 09/22/97**					
	09/23/97	67015	(ML/S2320B)	Alkalinity	120	mg/l	2.0	1
	10/13/97		(ML/SM1040)	Anion Sum	3.27	meq/l	0.0010	1
10/07/97	10/24/97	68150	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	10/08/97	67586	(ML/S3111B)	Calcium, Flame AA	12	mg/l	1.0	1
	10/14/97		(ML/SM1040)	Cation Sum	3.30	meq/l	0.0010	1
	09/23/97	66916	(ML/EPA 300)	Chloride	11	mg/l	1.0	1
	10/04/97	67292	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	10/09/97		(ML/S2320-B)	Carbonate as CO3, Calculated	14.4	mg/l	0.0010	1
10/07/97	10/17/97	68334	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	09/23/97	66791	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	09/25/97		(ML/S2510B)	Specific Conductance	325	umho/cm	4.0	1
10/07/97	10/17/97	68336	(EPA/ML 200.8)	Iron, Total, ICAP/MS	500	ug/l	100	1
	10/09/97		(ML/S2320B)	Bicarbonate as HCO3,calculated	140	mg/l	0.0010	1
	10/08/97	67578	(ML/S3111B)	Potassium, Flame AA	2.2	mg/l	1.0	1
	10/08/97	67585	(ML/S3111B)	Magnesium, Flame AA	12	mg/l	1.0	1
	10/08/97	67580	(ML/S3111B)	Sodium, Flame AA	38	mg/l	1.0	1
	09/23/97	66918	(ML/EPA 300.0)	Nitrate-N by IC	0.3	mg/l	0.10	1
10/07/97	10/17/97	68338	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	09/23/97		(ML/SM 4500H)	Lab pH	9.2	Units	0.0010	1
	09/23/97	66919	(ML/EPA 300.0)	Sulfate	26	mg/l	2.0	1
	09/29/97	67152	(ML/S2540C)	Total Dissolved Solid (TDS)	210	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	09/25/97	67182	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/25/97	67182	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	09/25/97	67182	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	09/25/97	67182	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Chloroform (Trichloromethane)	5.2	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Bromodichloromethane	0.5	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/25/97	67182	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	09/25/97	67182	(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	104	% Rec		
			(Surrogate)	Toluene-d8	96	% Rec		

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Report
Comments
#37349

Group Comments

(Pb-MS) The digested blank had a trace hit lower than the contract reporting limit but higher than the instrument sensitivity. The trace amount was found to be at 0.8ppb, however all associated samples for the batch were less than 0.5ppb the instrument sensitivity. All samples were reported ND. No further action was taken.

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Laboratory QC Report #37349

Foster Wheeler Environmental, Inc

QC Batch #66791 Hexavalent chromium (Cr VI)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Hexavalent chromium (Cr VI)	0.050	0.0502	100.4	(78.00 - 118.00)	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.0511	102.2	(78.00 - 118.00)	1.8
MBLK	Hexavalent chromium (Cr VI)	ND				
MS	Hexavalent chromium (Cr VI)	0.050	0.0494	98.8	(80.00 - 120.00)	
MSD	Hexavalent chromium (Cr VI)	0.050	0.0468	93.6	(80.00 - 120.00)	5.4

QC Batch #66916 Chloride

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Chloride	25	24.0	96.0	(90.00 - 110.00)	
LCS2	Chloride	25	24.1	96.4	(90.00 - 110.00)	0.42
MBLK	Chloride	ND				
MS	Chloride	25	24.9	99.6	(80.00 - 120.00)	
MSD	Chloride	25	24.9	99.6	(80.00 - 120.00)	0.00

QC Batch #66918 Nitrate-N by IC

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Nitrate-N by IC	2.5	2.36	94.4	(90.00 - 110.00)	
LCS2	Nitrate-N by IC	2.5	2.33	93.2	(90.00 - 110.00)	1.3
MBLK	Nitrate-N by IC	ND				
MS	Nitrate-N by IC	2.5	2.34	93.6	(90.00 - 110.00)	
MSD	Nitrate-N by IC	2.5	2.34	93.6	(90.00 - 110.00)	0.00

QC Batch #66919 Sulfate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Sulfate	50	47.2	94.4	(90.00 - 110.00)	
LCS2	Sulfate	50	47.3	94.6	(90.00 - 110.00)	0.21
MBLK	Sulfate	ND				
MS	Sulfate	50	50.3	100.6	(70.00 - 130.00)	
MSD	Sulfate	50	50.4	100.8	(70.00 - 130.00)	0.20

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

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Laboratory
QC Report
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Foster Wheeler Environmental, Inc
(continued)

QC Batch #67015 Alkalinity

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Alkalinity	96.2	97.2	101.0	(90.00 - 110.00)	
LCS2	Alkalinity	96.2	96.6	100.4	(90.00 - 110.00)	0.62
MBLK	Alkalinity	ND				
MS	Alkalinity	96.2	97.8	101.7	(80.00 - 120.00)	
MSD	Alkalinity	96.2	96.5	100.3	(80.00 - 120.00)	1.3

QC Batch #67152 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Total Dissolved Solid (TDS)	175	178	101.7	(85.00 - 115.00)	
LCS2	Total Dissolved Solid (TDS)	700	660	94.3	(85.00 - 115.00)	
MBLK	Total Dissolved Solid (TDS)	ND				

QC Batch #67178 Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	4	3.66	91.5	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	4.21	105.2	(70.00 - 130.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	3.87	96.8	(70.00 - 130.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	3.78	94.5	(70.00 - 130.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	3.59	89.8	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MBLK	1,1-Dichloropropene	ND				
MBLK	1,2,3-Trichlorobenzene	ND				
MBLK	1,2,3-Trichloropropane	ND				

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Criteria for MS and DUP are not applicable for ICR monitoring.

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LCS1	1,2,4-Trichlorobenzene	4	3.40	85.0	(70.00 - 130.00)
MBLK	1,2,4-Trichlorobenzene	ND			
MBLK	1,2,4-Trimethylbenzene	ND			
LCS1	1,2-Dichloroethane	4	3.84	96.0	(70.00 - 130.00)
MBLK	1,2-Dichloroethane	ND			
LCS1	1,2-Dichloropropane	4	3.71	92.8	(70.00 - 130.00)
MBLK	1,2-Dichloropropane	ND			
MBLK	1,3,5-Trimethylbenzene	ND			
LCS1	1,3-Dichloropropane	8	7.54	94.2	(70.00 - 130.00)
MBLK	1,3-Dichloropropane	ND			
MBLK	2,2-Dichloropropane	ND			
MBLK	2-Butanone (MEK)	ND			
MBLK	2-Chloroethylvinylether	ND			
MBLK	4-Methyl-2-Pentanone (MIBK)	ND			
LCS1	Benzene	4	3.42	85.5	(70.00 - 130.00)
MBLK	Benzene	ND			
MBLK	Bromobenzene	ND			
MBLK	Bromochloromethane	ND			
LCS1	Bromodichloromethane	4	3.84	96.0	(70.00 - 130.00)
MBLK	Bromodichloromethane	ND			
LCS1	Bromoform	4	3.79	94.8	(70.00 - 130.00)
MBLK	Bromoform	ND			
MBLK	Bromomethane (Methyl Bromide)	ND			
LCS1	Carbon Tetrachloride	4	3.36	84.0	(70.00 - 130.00)
MBLK	Carbon Tetrachloride	ND			
LCS1	Chlorobenzene	4	3.62	90.5	(70.00 - 130.00)
MBLK	Chlorobenzene	ND			
LCS1	Chlorodibromomethane	4	3.77	94.2	(70.00 - 130.00)
MBLK	Chlorodibromomethane	ND			
MBLK	Chloroethane	ND			
LCS1	Chloroform (Trichloromethane)	4	3.85	96.2	(70.00 - 130.00)
MBLK	Chloroform (Trichloromethane)	ND			
MBLK	Chloromethane(Methyl Chloride)	ND			
MBLK	Dibromomethane	ND			
MBLK	Dichlorodifluoromethane	ND			
LCS1	Dichloromethane	4	3.76	94.0	(70.00 - 130.00)
MBLK	Dichloromethane	ND			

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LCS1	Ethyl benzene	4	3.59	89.8	(70.00 - 130.00)
MBLK	Ethyl benzene	ND			
LCS1	Fluorotrichloromethane-Freon11	2	2.32	116.0	(70.00 - 130.00)
MBLK	Fluorotrichloromethane-Freon11	ND			
MBLK	Hexachlorobutadiene	ND			
MBLK	Isopropylbenzene	ND			
MBLK	Naphthalene	ND			
LCS1	Styrene	4	3.78	94.5	(70.00 - 130.00)
MBLK	Styrene	ND			
LCS1	Tetrachloroethylene (PCE)	4	3.52	88.0	(70.00 - 130.00)
MBLK	Tetrachloroethylene (PCE)	ND			
LCS1	Toluene	4	3.51	87.8	(70.00 - 130.00)
MBLK	Toluene	ND			
LCS1	Trichloroethylene (TCE)	4	3.54	88.5	(70.00 - 130.00)
MBLK	Trichloroethylene (TCE)	ND			
LCS1	Trichlorotrifluoroethane(Freon	2	2.17	108.5	(70.00 - 130.00)
MBLK	Trichlorotrifluoroethane(Freon	ND			
LCS1	Vinyl chloride (VC)	2	1.79	89.5	(70.00 - 130.00)
MBLK	Vinyl chloride (VC)	ND			
LCS1	cis-1,2-Dichloroethylene	4	3.31	82.8	(70.00 - 130.00)
MBLK	cis-1,2-Dichloroethylene	ND			
MBLK	cis-1,3-Dichloropropene	ND			
LCS1	m,p-Xylenes	8	7.03	87.9	(70.00 - 130.00)
MBLK	m,p-Xylenes	ND			
MBLK	m-Dichlorobenzene (1,3-DCB)	ND			
MBLK	n-Butylbenzene	ND			
MBLK	n-Propylbenzene	ND			
MBLK	o-Chlorotoluene	ND			
LCS1	o-Dichlorobenzene (1,2-DCB)	4	3.65	91.2	(70.00 - 130.00)
MBLK	o-Dichlorobenzene (1,2-DCB)	ND			
LCS1	o-Xylene	4	3.62	90.5	(70.00 - 130.00)
MBLK	o-Xylene	ND			
MBLK	p-Chlorotoluene	ND			
LCS1	p-Dichlorobenzene (1,4-DCB)	4	3.58	89.5	(70.00 - 130.00)
MBLK	p-Dichlorobenzene (1,4-DCB)	ND			
MBLK	p-Isopropyltoluene	ND			
MBLK	sec-Butylbenzene	ND			

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MBLK	tert-Butylbenzene	ND			
LCS1	trans-1,2-Dichloroethylene	4	3.60	90.0	(70.00 - 130.00)
MBLK	trans-1,2-Dichloroethylene	ND			
MBLK	trans-1,3-Dichloropropene	ND			

QC Batch #67182 Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	4	3.82	95.5	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	4.60	115.0	(70.00 - 130.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	4.25	106.2	(70.00 - 130.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	4.18	104.5	(70.00 - 130.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	4.23	105.8	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MBLK	1,1-Dichloropropene	ND				
MBLK	1,2,3-Trichlorobenzene	ND				
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	4	3.69	92.2	(70.00 - 130.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	4	4.12	103.0	(70.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	4	3.96	99.0	(70.00 - 130.00)	
MBLK	1,2-Dichloropropane	ND				
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	8	7.94	99.2	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
MBLK	2,2-Dichloropropane	ND				
MBLK	2-Butanone (MEK)	ND				
MBLK	2-Chloroethylvinylether	ND				
MBLK	4-Methyl-2-Pentanone (MIBK)	ND				

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Criteria for MS and DUP are not applicable for ICR monitoring.

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Foster Wheeler Environmental, Inc
(continued)

LCS1	Benzene	4	3.97	99.2	(70.00 - 130.00)
MBLK	Benzene	ND			
MBLK	Bromobenzene	ND			
MBLK	Bromochloromethane	ND			
LCS1	Bromodichloromethane	4	4.26	106.5	(70.00 - 130.00)
MBLK	Bromodichloromethane	ND			
LCS1	Bromoform	4	5.12	128.0	(70.00 - 130.00)
MBLK	Bromoform	ND			
MBLK	Bromomethane (Methyl Bromide)	ND			
LCS1	Carbon Tetrachloride	4	3.92	98.0	(70.00 - 130.00)
MBLK	Carbon Tetrachloride	ND			
LCS1	Chlorobenzene	4	3.85	96.2	(70.00 - 130.00)
MBLK	Chlorobenzene	ND			
LCS1	Chlorodibromomethane	4	3.97	99.2	(70.00 - 130.00)
MBLK	Chlorodibromomethane	ND			
MBLK	Chloroethane	ND			
LCS1	Chloroform (Trichloromethane)	4	4.05	101.2	(70.00 - 130.00)
MBLK	Chloroform (Trichloromethane)	ND			
MBLK	Chloromethane(Methyl Chloride)	ND			
MBLK	Dibromomethane	ND			
MBLK	Dichlorodifluoromethane	ND			
LCS1	Dichloromethane	4	4.42	110.5	(70.00 - 130.00)
MBLK	Dichloromethane	ND			
LCS1	Ethyl benzene	4	4.03	100.8	(70.00 - 130.00)
MBLK	Ethyl benzene	ND			
LCS1	Fluorotrichloromethane-Freon11	2	2.36	118.0	(70.00 - 130.00)
MBLK	Fluorotrichloromethane-Freon11	ND			
MBLK	Hexachlorobutadiene	ND			
MBLK	Isopropylbenzene	ND			
MBLK	Naphthalene	ND			
LCS1	Styrene	4	3.89	97.2	(70.00 - 130.00)
MBLK	Styrene	ND			
LCS1	Tetrachloroethylene (PCE)	4	3.52	88.0	(70.00 - 130.00)
MBLK	Tetrachloroethylene (PCE)	ND			
LCS1	Toluene	4	3.92	98.0	(70.00 - 130.00)
MBLK	Toluene	ND			
LCS1	Trichloroethylene (TCE)	4	3.66	91.5	(70.00 - 130.00)

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Criteria for MS and DUP are not applicable for ICR monitoring.

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MBLK	Trichloroethylene (TCE)	ND			
LCS1	Trichlorotrifluoroethane(Freon	2	2.33	116.5	(70.00 - 130.00)
MBLK	Trichlorotrifluoroethane(Freon	ND			
LCS1	Vinyl chloride (VC)	2	1.85	92.5	(70.00 - 130.00)
MBLK	Vinyl chloride (VC)	ND			
LCS1	cis-1,2-Dichloroethylene	4	3.64	91.0	(70.00 - 130.00)
MBLK	cis-1,2-Dichloroethylene	ND			
MBLK	cis-1,3-Dichloropropene	ND			
LCS1	m,p-Xylenes	8	7.99	99.9	(70.00 - 130.00)
MBLK	m,p-Xylenes	ND			
MBLK	m-Dichlorobenzene (1,3-DCB)	ND			
MBLK	n-Butylbenzene	ND			
MBLK	n-Propylbenzene	ND			
MBLK	o-Chlorotoluene	ND			
LCS1	o-Dichlorobenzene (1,2-DCB)	4	4.11	102.8	(70.00 - 130.00)
MBLK	o-Dichlorobenzene (1,2-DCB)	ND			
LCS1	o-Xylene	4	3.84	96.0	(70.00 - 130.00)
MBLK	o-Xylene	ND			
MBLK	p-Chlorotoluene	ND			
LCS1	p-Dichlorobenzene (1,4-DCB)	4	3.87	96.8	(70.00 - 130.00)
MBLK	p-Dichlorobenzene (1,4-DCB)	ND			
MBLK	p-Isopropyltoluene	ND			
MBLK	sec-Butylbenzene	ND			
MBLK	tert-Butylbenzene	ND			
LCS1	trans-1,2-Dichloroethylene	4	4.13	103.2	(70.00 - 130.00)
MBLK	trans-1,2-Dichloroethylene	ND			
MBLK	trans-1,3-Dichloropropene	ND			

QC Batch #67291 Perchlorate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Perchlorate	20.0	19.6	98.0	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	19.6	98.0	(90.00 - 110.00)	0.00
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	19.1	95.5	(75.00 - 125.00)	
MSD	Perchlorate	20.0	19.1	95.5	(75.00 - 125.00)	0.00

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Criteria for MS and DUP are not applicable for ICR monitoring.

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(continued)

QC Batch #67292 Perchlorate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Perchlorate	20.0	19.5	97.5	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	19.7	98.5	(90.00 - 110.00)	1.0
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	20.8	104.0	(75.00 - 125.00)	
MSD	Perchlorate	20.0	20	100.0	(75.00 - 125.00)	3.9

QC Batch #67578 Potassium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Potassium, Flame AA	20	20.1	100.5	(80.00 - 120.00)	
LCS2	Potassium, Flame AA	20	20.7	103.5	(80.00 - 120.00)	2.9
MBLK	Potassium, Flame AA	ND				
MS	Potassium, Flame AA	20	21.0	105.0	(85.00 - 115.00)	
MSD	Potassium, Flame AA	20	20.9	104.5	(85.00 - 115.00)	0.48

QC Batch #67580 Sodium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Sodium, Flame AA	50	48.0	96.0	(90.00 - 110.00)	
LCS2	Sodium, Flame AA	50	47.7	95.4	(90.00 - 110.00)	0.63
MBLK	Sodium, Flame AA	ND				
MS	Sodium, Flame AA	50	47.7	95.4	(85.00 - 115.00)	
MSD	Sodium, Flame AA	50	48.2	96.4	(85.00 - 115.00)	1.0

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QC Batch #67585 Magnesium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Magnesium, Flame AA	20	19.2	96.0	(90.00 - 110.00)	
LCS2	Magnesium, Flame AA	20	18.8	94.0	(90.00 - 110.00)	2.1
MBLK	Magnesium, Flame AA	ND				
MS	Magnesium, Flame AA	20	19.7	98.5	(85.00 - 115.00)	
MSD	Magnesium, Flame AA	20	20.1	100.5	(85.00 - 115.00)	2.0

QC Batch #67586 Calcium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Calcium, Flame AA	50	53.2	106.4	(90.00 - 110.00)	
LCS2	Calcium, Flame AA	50	52.6	105.2	(90.00 - 110.00)	1.1
MBLK	Calcium, Flame AA	ND				
MS	Calcium, Flame AA	50	54.8	109.6	(85.00 - 115.00)	
MSD	Calcium, Flame AA	50	55.3	110.6	(85.00 - 115.00)	0.91

QC Batch #68150 Arsenic, Total, GF

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Arsenic, Total, GF	0.020	0.0207	103.5	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.0223	111.5	(85.00 - 115.00)	7.4
MBLK	Arsenic, Total, GF	ND				
MS	Arsenic, Total, GF	0.020	0.0213	106.5	(85.00 - 115.00)	
MSD	Arsenic, Total, GF	0.020	0.0216	108.0	(85.00 - 115.00)	1.4

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

MONTGOMERY WATSON LABORATORIES

555 East Walnut Street
Pasadena, California 91101
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Foster Wheeler Environmental, Inc
(continued)

QC Batch #68334 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP/MS	100	105	105.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	99.8	99.8	(85.00 - 115.00)	5.1
MBLK	Chromium, Total, ICAP/MS	ND		0.0		
MS	Chromium, Total, ICAP/MS	100	104.	104.0	(70.00 - 130.00)	
MSD	Chromium, Total, ICAP/MS	100	102.	102.0	(70.00 - 130.00)	1.9

QC Batch #68336 Iron, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Iron, Total, ICAP/MS	500	495	99.0	(85.00 - 115.00)	
LCS2	Iron, Total, ICAP/MS	500	492	98.4	(85.00 - 115.00)	0.61
MBLK	Iron, Total, ICAP/MS	ND		0.0		
MS	Iron, Total, ICAP/MS	500	537.	107.0	(70.00 - 130.00)	
MSD	Iron, Total, ICAP/MS	500	534.	107.0	(70.00 - 130.00)	0.56

QC Batch #68338 Lead, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Lead, Total, ICAP/MS	20	20.5	102.5	(85.00 - 115.00)	
LCS2	Lead, Total, ICAP/MS	20	20.4	102.0	(85.00 - 115.00)	0.49
MBLK	Lead, Total, ICAP/MS	ND		0.0		
MS	Lead, Total, ICAP/MS	20	20.5	103.0	(70.00 - 130.00)	
MSD	Lead, Total, ICAP/MS	20	20.0	100.0	(70.00 - 130.00)	2.5

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

MONTGOMERY WATSON LABORATORIES

December 5, 1997

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

Attention: Mark Cutler

Re: Report # 37169 (MW-973-84, MW-973-85, MW-973-41MW-973-41MS, MW-973-41MSD, MW-973-40, MW-973-42)

Dear Mark,

041

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):
(As-GF) MSD recovery associated with this set exceeds MWL internal QC limits. A high Bias might be expected. The standard add recovery was within acceptance criteria and the sample is ND. No further action taken. Original data reported.

Samples requiring dilution (with increased MRL's):
MW-973-42: Trichloroethylene, Perchlorate

Method blanks with compounds detected:
None

Other Comments:
Chloroform was detected in sample ID: MW-973-85, -41, -42
Bromodichloromethane was detected in sample ID: MW-973-42
Carbon Tetrachloride was detected in sample ID: MW-973-42
Tetrachloroethylene was detected in sample ID: MW-973-42
Trichloroethylene was detected in sample ID: MW-973-42
Hex Chrome was detected in sample ID: MW-973-42
Perchlorate was detected in sample ID: MW-973-42

Sincerely,

Debbie Frank
Project Manager

cc: Judy Novelly (JPL)

a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400
Fax: 626 568 6324

Quality Environmental Analysis

Report Summary of positive results, PR37169

			Result	MDL	UNITS
Analyzed	970916200	MW-973-84			
Analyzed	970916206	MW-973-85			
09/18/97	Chloroform (Trichloromethane)		1.6	.500	UGL
Analyzed	970916207	MW-973-41			
09/18/97	Chloroform (Trichloromethane)		6.1	.500	UGL
09/23/97	Alkalinity		105	2.000	MGL
10/13/97	Anion Sum		2.75	.001	MEQL
10/09/97	Bicarbonate as HCO3,calculated		124	.001	MGL
10/08/97	Calcium, Flame AA		14	1.000	MGL
10/09/97	Carbonate as CO3, Calculated		10.1	.001	MGL
10/14/97	Cation Sum		2.83	.001	MEQL
09/18/97	Chloride		6.8	1.000	MGL
09/23/97	Lab pH		9.1	.001	UNIT
10/08/97	Magnesium, Flame AA		16	1.000	MGL
10/08/97	Potassium, Flame AA		2.8	1.000	MGL
10/08/97	Sodium, Flame AA		17	1.000	MGL
09/17/97	Specific Conductance		275	4.000	UMHO
09/18/97	Sulfate		22	2.000	MGL
09/22/97	Total Dissolved Solid (TDS)		160	10.000	MGL
Analyzed	970916208	MW-973-41 MS			
09/18/97	1,1-Dichloroethylene		3.50	.500	UGL
09/18/97	1,2,4-Trichlorobenzene		3.28	.500	UGL
09/18/97	Benzene		3.36	.500	UGL
09/18/97	Carbon Tetrachloride		3.61	.500	UGL
09/18/97	Chlorobenzene		3.29	.500	UGL
09/18/97	Chloroform (Trichloromethane)		1.91	.500	UGL
09/18/97	Toluene		3.48	.500	UGL
09/18/97	Trichloroethylene (TCE)		3.36	.500	UGL
09/18/97	p-Dichlorobenzene (1,4-DCB)		3.55	.500	UGL
Analyzed	970916209	MW-973-41 MSD			
09/18/97	1,1-Dichloroethylene		3.64	.500	UGL
09/18/97	1,2,4-Trichlorobenzene		3.42	.500	UGL
09/18/97	Benzene		3.53	.500	UGL
09/18/97	Carbon Tetrachloride		3.81	.500	UGL
09/18/97	Chlorobenzene		3.48	.500	UGL
09/18/97	Chloroform (Trichloromethane)		2.4	.500	UGL
09/18/97	Toluene		3.55	.500	UGL
09/18/97	Trichloroethylene (TCE)		3.37	.500	UGL
09/18/97	p-Dichlorobenzene (1,4-DCB)		3.49	.500	UGL
Analyzed	970916210	MW-973-40			
09/23/97	Alkalinity		120	2.000	MGL
10/13/97	Anion Sum		3.12	.001	MEQL
10/09/97	Bicarbonate as HCO3,calculated		146	.001	MGL
10/08/97	Calcium, Flame AA		36	1.000	MGL
10/09/97	Carbonate as CO3, Calculated		0.238	.001	MGL

10/14/97	Cation Sum	3.32	.001	MEQL
09/18/97	Chloride	5.7	1.000	MGL
09/23/97	Lab pH	7.4	.001	UNIT
10/08/97	Magnesium, Flame AA	11	1.000	MGL
09/18/97	Nitrate-N by IC	0.6	.100	MGL
10/08/97	Potassium, Flame AA	2.1	1.000	MGL
10/08/97	Sodium, Flame AA	13	1.000	MGL
09/17/97	Specific Conductance	325	4.000	UMHO
09/18/97	Sulfate	25	2.000	MGL
09/22/97	Total Dissolved Solid (TDS)	180	10.000	MGL

Analyzed 970916219 MW-973-42

09/18/97	Bromodichloromethane	0.7	.500	UGL
09/18/97	Carbon Tetrachloride	6.6	.500	UGL
09/18/97	Chloroform (Trichloromethane)	8.5	.500	UGL
09/18/97	Tetrachloroethylene (PCE)	1.4	.500	UGL
09/18/97	Trichloroethylene (TCE)	22	1.000	UGL
09/23/97	Alkalinity	160	2.000	MGL
10/13/97	Anion Sum	4.32	.001	MEQL
10/09/97	Bicarbonate as HCO3,calculated	195	.001	MGL
10/08/97	Calcium, Flame AA	43	1.000	MGL
10/09/97	Carbonate as CO3, Calculated	0.800	.001	MGL
10/14/97	Cation Sum	4.43	.001	MEQL
09/18/97	Chloride	14	1.000	MGL
09/16/97	Hexavalent chromium (Cr VI)	0.006	.005	MGL
10/17/97	Iron, Total, ICAP/MS	610	******	UGL
09/23/97	Lab pH	7.8	.001	UNIT
10/08/97	Magnesium, Flame AA	16	1.000	MGL
09/18/97	Nitrate-N by IC	1.7	.100	MGL
10/05/97	Perchlorate	55	8.000	UGL
10/08/97	Potassium, Flame AA	2.0	1.000	MGL
10/08/97	Sodium, Flame AA	21	1.000	MGL
09/17/97	Specific Conductance	430	4.000	UMHO
09/18/97	Sulfate	29	2.000	MGL
09/22/97	Total Dissolved Solid (TDS)	240	10.000	MGL

MONTGOMERY WATSON LABORATORIES

555 East Walnut Street
Pasadena, California 91101
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Laboratory Report

for

Foster Wheeler Environmental, Inc
611 Anton Boulevard

Suite 800

Costa Mesa , CA 92626

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

MONTGOMERY WATSON LABS.
SUBMITTED ON

DEC 1 1997

DEB* Debbie Frank

Report#: 37169
JPL

MONTGOMERY WATSON LABORATORIES

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Laboratory
Report
#37169

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

Samples Received
16-sep-1997 15:49:58

MW-973-84 (970916200) Sampled on 09/16/97

Regulated VOCs plus Lists 1&3

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/18/97	66959	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	09/18/97	66959	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	09/18/97	66959	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/18/97	66959	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	119	% Rec		
			(Surrogate)	4-Bromofluorobenzene	85	% Rec		
			(Surrogate)	Toluene-d8	100	% Rec		

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-973-85 (970916206) Sampled on 09/16/97								
10/07/97	10/21/97	68025	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	10/04/97	67291	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
10/07/97	10/17/97	68333	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	09/16/97	66595	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
10/07/97	10/17/97	68337	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
Regulated VOCs plus Lists 1&3								
	09/18/97	66959	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	09/18/97	66959	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	09/18/97	66959	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1

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Laboratory
Report
#37169

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/18/97	66959	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Chloroform (Trichloromethane)	1.6	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	116	% Rec		
			(Surrogate)	4-Bromofluorobenzene	93	% Rec		

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
			(Surrogate)	Toluene-d8	100	% Rec		
MW-973-41 (970916207) Sampled on 09/16/97								
	09/23/97	67015	(ML/S2320B)	Alkalinity	105	mg/l	2.0	1
	10/13/97		(ML/SM1040)	Anion Sum	2.75	meq/l	0.0010	1
10/07/97	10/21/97	68025	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	10/08/97	67586	(ML/S3111B)	Calcium, Flame AA	14	mg/l	1.0	1
	10/14/97		(ML/SM1040)	Cation Sum	2.83	meq/l	0.0010	1
	09/18/97	66832	(ML/EPA 300)	Chloride	6.8	mg/l	1.0	1
	10/04/97	67291	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	10/09/97		(ML/S2320-B)	Carbonate as CO3, Calculated	10.1	mg/l	0.0010	1
10/07/97	10/17/97	68333	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	09/16/97	66595	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	09/17/97		(ML/S2510B)	Specific Conductance	275	umho/cm	4.0	1
10/07/97	10/17/97	68335	(EPA/ML 200.8)	Iron, Total, ICAP/MS	ND	ug/l	100	1
	10/09/97		(ML/S2320B)	Bicarbonate as HCO3,calculated	124	mg/l	0.0010	1
	10/08/97	67578	(ML/S3111B)	Potassium, Flame AA	2.8	mg/l	1.0	1
	10/08/97	67585	(ML/S3111B)	Magnesium, Flame AA	16	mg/l	1.0	1
	10/08/97	67580	(ML/S3111B)	Sodium, Flame AA	17	mg/l	1.0	1
	09/18/97	66836	(ML/EPA 300.0)	Nitrate-N by IC	ND	mg/l	0.10	1
10/07/97	10/17/97	68337	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	09/23/97		(ML/SM 4500H)	Lab pH	9.1	Units	0.0010	1
	09/18/97	66837	(ML/EPA 300.0)	Sulfate	22	mg/l	2.0	1
	09/22/97	67066	(ML/S2540C)	Total Dissolved Solid (TDS)	160	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	09/18/97	66959	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1

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Laboratory
Report
#37169

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/18/97	66959	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	09/18/97	66959	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	09/18/97	66959	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Chloroform (Trichloromethane)	6.1	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/18/97	66959	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	117	% Rec		
			(Surrogate)	4-Bromofluorobenzene	90	% Rec		
			(Surrogate)	Toluene-d8	104	% Rec		

MW-973-41 MS (970916208) Sampled on 09/16/97

Regulated VOCs plus Lists 1&3

	09/18/97	66959	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,1,1-Trichloroethane	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,1,2-Trichloroethane	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,1-Dichloroethane	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,1-Dichloroethylene	3.50	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,1-Dichloropropene	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,2,3-Trichloropropane	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	3.28	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,2-Dichloroethane	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,2-Dichloropropane	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	NA	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/18/97	66959	(ML/EPA 524.2)	1,3-Dichloropropane	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	3.55	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	2,2-Dichloropropane	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	2-Butanone (MEK)	NA	ug/l	5.0	1
	09/18/97	66959	(ML/EPA 524.2)	o-Chlorotoluene	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	p-Chlorotoluene	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	NA	ug/l	5.0	1
	09/18/97	66959	(ML/EPA 524.2)	Benzene	3.36	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Bromobenzene	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Chlorobenzene	3.29	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Carbon Tetrachloride	3.61	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	cis-1,3-Dichloropropene	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Bromoform	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Chloroform (Trichloromethane)	1.91	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Bromochloromethane	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Chloroethane	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Chlorodibromomethane	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Dibromomethane	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Bromodichloromethane	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Dichloromethane	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Ethyl benzene	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Dichlorodifluoromethane	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Hexachlorobutadiene	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Isopropylbenzene	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	m,p-Xylenes	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Naphthalene	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	n-Butylbenzene	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	n-Propylbenzene	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	o-Xylene	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	NA	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/18/97	66959	(ML/EPA 524.2)	p-Isopropyltoluene	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	sec-Butylbenzene	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Styrene	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	tert-Butylbenzene	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Trichloroethylene (TCE)	3.36	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	trans-1,3-Dichloropropene	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Toluene	3.48	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Vinyl chloride (VC)	NA	ug/l	0.30	1
			(Surrogate)	1,2-Dichloroethane-d4	121	% Rec		
			(Surrogate)	4-Bromofluorobenzene	98	% Rec		
			(Surrogate)	Toluene-d8	102	% Rec		

MW-973-41 MSD (970916209) Sampled on 09/16/97

Regulated VOCs plus Lists 1&3

	09/18/97	66959	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,1,1-Trichloroethane	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,1,2-Trichloroethane	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,1-Dichloroethane	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,1-Dichloroethylene	3.64	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,1-Dichloropropene	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,2,3-Trichloropropane	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	3.42	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,2-Dichloroethane	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,2-Dichloropropane	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,3-Dichloropropane	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	3.49	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	2,2-Dichloropropane	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	2-Butanone (MEK)	NA	ug/l	5.0	1
	09/18/97	66959	(ML/EPA 524.2)	o-Chlorotoluene	NA	ug/l	0.50	1

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Laboratory
Report
#37169

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/18/97	66959	(ML/EPA 524.2)	p-Chlorotoluene	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	NA	ug/l	5.0	1
	09/18/97	66959	(ML/EPA 524.2)	Benzene	3.53	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Bromobenzene	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Chlorobenzene	3.48	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Carbon Tetrachloride	3.81	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	cis-1,3-Dichloropropene	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Bromoform	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Chloroform (Trichloromethane)	2.4	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Bromochloromethane	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Chloroethane	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Chlorodibromomethane	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Dibromomethane	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Bromodichloromethane	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Dichloromethane	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Ethyl benzene	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Dichlorodifluoromethane	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Hexachlorobutadiene	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Isopropylbenzene	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	m,p-Xylenes	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Naphthalene	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	n-Butylbenzene	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	n-Propylbenzene	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	o-Xylene	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	p-Isopropyltoluene	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	sec-Butylbenzene	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Styrene	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	tert-Butylbenzene	NA	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/18/97	66959	(ML/EPA 524.2)	Trichloroethylene (TCE)	3.37	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	trans-1,3-Dichloropropene	NA	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Toluene	3.55	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Vinyl chloride (VC)	NA	ug/l	0.30	1
			(Surrogate)	1,2-Dichloroethane-d4	115	% Rec		
			(Surrogate)	4-Bromofluorobenzene	97	% Rec		
			(Surrogate)	Toluene-d8	98	% Rec		
MW-973-40 (970916210) Sampled on 09/16/97								
	09/23/97	67015	(ML/S2320B)	Alkalinity	120	mg/l	2.0	1
	10/13/97		(ML/SM1040)	Anion Sum	3.12	meq/l	0.0010	1
10/07/97	10/21/97	68025	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	10/08/97	67586	(ML/S3111B)	Calcium, Flame AA	36	mg/l	1.0	1
	10/14/97		(ML/SM1040)	Cation Sum	3.32	meq/l	0.0010	1
	09/18/97	66832	(ML/EPA 300)	Chloride	5.7	mg/l	1.0	1
	10/04/97	67291	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	10/09/97		(ML/S2320-B)	Carbonate as CO3, Calculated	0.238	mg/l	0.0010	1
10/07/97	10/17/97	68333	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	09/16/97	66595	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	09/17/97		(ML/S2510B)	Specific Conductance	325	umho/cm	4.0	1
10/07/97	10/17/97	68335	(EPA/ML 200.8)	Iron, Total, ICAP/MS	ND	ug/l	100	1
	10/09/97		(ML/S2320B)	Bicarbonate as HCO3,calculated	146	mg/l	0.0010	1
	10/08/97	67578	(ML/S3111B)	Potassium, Flame AA	2.1	mg/l	1.0	1
	10/08/97	67585	(ML/S3111B)	Magnesium, Flame AA	11	mg/l	1.0	1
	10/08/97	67580	(ML/S3111B)	Sodium, Flame AA	13	mg/l	1.0	1
	09/18/97	66836	(ML/EPA 300.0)	Nitrate-N by IC	0.6	mg/l	0.10	1
10/07/97	10/17/97	68337	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	09/23/97		(ML/SM 4500H)	Lab pH	7.4	Units	0.0010	1
	09/18/97	66837	(ML/EPA 300.0)	Sulfate	25	mg/l	2.0	1
	09/22/97	67066	(ML/S2540C)	Total Dissolved Solid (TDS)	180	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	09/18/97	66959	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/18/97	66959	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	09/18/97	66959	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	09/18/97	66959	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/18/97	66959	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	118	% Rec		
			(Surrogate)	4-Bromofluorobenzene	94	% Rec		
			(Surrogate)	Toluene-d8	104	% Rec		

MW-973-42 (970916219) Sampled on 09/16/97

	09/23/97	67015	(ML/S2320B)	Alkalinity	160	mg/l	2.0	1
	10/13/97		(ML/SM1040)	Anion Sum	4.32	meq/l	0.0010	1
10/07/97	10/21/97	68025	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	10/08/97	67586	(ML/S3111B)	Calcium, Flame AA	43	mg/l	1.0	1
	10/14/97		(ML/SM1040)	Cation Sum	4.43	meq/l	0.0010	1
	09/18/97	66832	(ML/EPA 300)	Chloride	14	mg/l	1.0	1
	10/05/97	67291	(MOD/EPA 300)	Perchlorate	55	ug/l	8.0	2
	10/09/97		(ML/S2320-B)	Carbonate as CO3, Calculated	0.800	mg/l	0.0010	1
10/07/97	10/17/97	68333	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/16/97	66595	(ML/SW 7196)	Hexavalent chromium (Cr VI)	0.006	mg/l	0.005	1
	09/17/97		(ML/S2510B)	Specific Conductance	430	umho/cm	4.0	1
10/07/97	10/17/97	68335	(EPA/ML 200.8)	Iron, Total, ICAP/MS	610	ug/l	100	1
	10/09/97		(ML/S2320B)	Bicarbonate as HCO3,calculated	195	mg/l	0.0010	1
	10/08/97	67578	(ML/S3111B)	Potassium, Flame AA	2.0	mg/l	1.0	1
	10/08/97	67585	(ML/S3111B)	Magnesium, Flame AA	16	mg/l	1.0	1
	10/08/97	67580	(ML/S3111B)	Sodium, Flame AA	21	mg/l	1.0	1
	09/18/97	66836	(ML/EPA 300.0)	Nitrate-N by IC	1.7	mg/l	0.10	1
10/07/97	10/17/97	68337	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	09/23/97		(ML/SM 4500H)	Lab pH	7.8	Units	0.0010	1
	09/18/97	66837	(ML/EPA 300.0)	Sulfate	29	mg/l	2.0	1
	09/22/97	67066	(ML/S2540C)	Total Dissolved Solid (TDS)	240	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	09/18/97	66959	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	09/18/97	66959	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	09/18/97	66959	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/18/97	66959	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Carbon Tetrachloride	6.6	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Chloroform (Trichloromethane)	8.5	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Bromodichloromethane	0.7	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	1.4	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Trichloroethylene (TCE)	22	ug/l	1.0	2
	09/18/97	66959	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/18/97	66959	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	09/18/97	66959	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	115	% Rec		
			(Surrogate)	4-Bromofluorobenzene	91	% Rec		
			(Surrogate)	Toluene-d8	100	% Rec		

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Group Comments

(As-GF) Sample 970916207 was spiked for MS/MSD. The MSD recovery was high bias, out side the 85-115% limit. The RPD was 12% and a spike addition recovery was 106%. The high bias recovery does not effect the spiked sample result since it was found to be ND. No further action was taken.

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QC Batch #66595 Hexavalent chromium (Cr VI)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Hexavalent chromium (Cr VI)	0.050	0.0519	104.2	(78.00 - 118.00)	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.0511	102.0	(78.00 - 118.00)	1.6
MBLK	Hexavalent chromium (Cr VI)	ND				
MS	Hexavalent chromium (Cr VI)	0.050	0.0466	92.8	(80.00 - 120.00)	
MSD	Hexavalent chromium (Cr VI)	0.050	0.0503	101.0	(80.00 - 120.00)	7.6

QC Batch #66832 Chloride

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Chloride	25	23.7	94.8	(90.00 - 110.00)	
LCS2	Chloride	25	23.8	95.2	(90.00 - 110.00)	0.42
MBLK	Chloride	ND				
MS	Chloride	25	25.0	100.0	(80.00 - 120.00)	
MSD	Chloride	25	25.0	100.0	(80.00 - 120.00)	0.00

QC Batch #66836 Nitrate-N by IC

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Nitrate-N by IC	2.5	2.34	93.6	(90.00 - 110.00)	
LCS2	Nitrate-N by IC	2.5	2.35	94.0	(90.00 - 110.00)	0.43
MBLK	Nitrate-N by IC	ND				
MS	Nitrate-N by IC	2.5	2.38	95.2	(90.00 - 110.00)	
MSD	Nitrate-N by IC	2.5	2.40	96.0	(90.00 - 110.00)	0.84

QC Batch #66837 Sulfate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Sulfate	50	46.8	93.6	(90.00 - 110.00)	
LCS2	Sulfate	50	46.9	93.8	(90.00 - 110.00)	0.21
MBLK	Sulfate	ND				
MS	Sulfate	50	50.5	101.0	(70.00 - 130.00)	
MSD	Sulfate	50	50.2	100.4	(70.00 - 130.00)	0.60

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

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QC Batch #66959 Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	4	3.69	92.2	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	4.05	101.2	(70.00 - 130.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	4.03	100.8	(70.00 - 130.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	4.00	100.0	(70.00 - 130.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	3.58	89.5	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MBLK	1,1-Dichloropropene	ND				
MBLK	1,2,3-Trichlorobenzene	ND				
MBLK	1,2,3-Trichloropropane	ND				
LCS1	1,2,4-Trichlorobenzene	4	3.56	89.0	(70.00 - 130.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	4	3.94	98.5	(70.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	4	3.71	92.8	(70.00 - 130.00)	
MBLK	1,2-Dichloropropane	ND				
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	8	7.39	92.4	(70.00 - 130.00)	
MBLK	1,3-Dichloropropane	ND				
MBLK	2,2-Dichloropropane	ND				
MBLK	2-Butanone (MEK)	ND				
MBLK	2-Chloroethylvinylether	ND				
MBLK	4-Methyl-2-Pentanone (MIBK)	ND				
LCS1	Benzene	4	3.36	84.0	(70.00 - 130.00)	
MBLK	Benzene	ND				
MBLK	Bromobenzene	ND				
MBLK	Bromochloromethane	ND				

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LCS1	Bromodichloromethane	4	3.86	96.5	(70.00 - 130.00)
MBLK	Bromodichloromethane	ND			
LCS1	Bromoform	4	3.84	96.0	(70.00 - 130.00)
MBLK	Bromoform	ND			
MBLK	Bromomethane (Methyl Bromide)	ND			
LCS1	Carbon Tetrachloride	4	3.47	86.8	(70.00 - 130.00)
MBLK	Carbon Tetrachloride	ND			
LCS1	Chlorobenzene	4	3.76	94.0	(70.00 - 130.00)
MBLK	Chlorobenzene	ND			
LCS1	Chlorodibromomethane	4	3.84	96.0	(70.00 - 130.00)
MBLK	Chlorodibromomethane	ND			
MBLK	Chloroethane	ND			
LCS1	Chloroform (Trichloromethane)	4	3.89	97.2	(70.00 - 130.00)
MBLK	Chloroform (Trichloromethane)	ND			
MBLK	Chloromethane(Methyl Chloride)	ND			
MBLK	Dibromomethane	ND			
MBLK	Dichlorodifluoromethane	ND			
LCS1	Dichloromethane	4	3.97	99.2	(70.00 - 130.00)
MBLK	Dichloromethane	ND			
LCS1	Ethyl benzene	4	3.75	93.8	(70.00 - 130.00)
MBLK	Ethyl benzene	ND			
LCS1	Fluorotrichloromethane-Freon11	2	2.43	121.5	(70.00 - 130.00)
MBLK	Fluorotrichloromethane-Freon11	ND			
MBLK	Hexachlorobutadiene	ND			
MBLK	Isopropylbenzene	ND			
MBLK	Naphthalene	ND			
LCS1	Styrene	4	3.74	93.5	(70.00 - 130.00)
MBLK	Styrene	ND			
LCS1	Tetrachloroethylene (PCE)	4	3.43	85.8	(70.00 - 130.00)
MBLK	Tetrachloroethylene (PCE)	ND			
LCS1	Toluene	4	3.53	88.2	(70.00 - 130.00)
MBLK	Toluene	ND			
LCS1	Trichloroethylene (TCE)	4	3.48	87.0	(70.00 - 130.00)
MBLK	Trichloroethylene (TCE)	ND			
LCS1	Trichlorotrifluoroethane(Freon	2	2.59	129.5	(70.00 - 130.00)
MBLK	Trichlorotrifluoroethane(Freon	ND			
LCS1	Vinyl chloride (VC)	2	1.89	94.5	(70.00 - 130.00)

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MBLK	Vinyl chloride (VC)	ND			
LCS1	cis-1,2-Dichloroethylene	4	3.46	86.5	(70.00 - 130.00)
MBLK	cis-1,2-Dichloroethylene	ND			
MBLK	cis-1,3-Dichloropropene	ND			
LCS1	m,p-Xylenes	8	7.34	91.8	(70.00 - 130.00)
MBLK	m,p-Xylenes	ND			
MBLK	m-Dichlorobenzene (1,3-DCB)	ND			
MBLK	n-Butylbenzene	ND			
MBLK	n-Propylbenzene	ND			
MBLK	o-Chlorotoluene	ND			
LCS1	o-Dichlorobenzene (1,2-DCB)	4	3.84	96.0	(70.00 - 130.00)
MBLK	o-Dichlorobenzene (1,2-DCB)	ND			
LCS1	o-Xylene	4	3.61	90.2	(70.00 - 130.00)
MBLK	o-Xylene	ND			
MBLK	p-Chlorotoluene	ND			
LCS1	p-Dichlorobenzene (1,4-DCB)	4	3.67	91.8	(70.00 - 130.00)
MBLK	p-Dichlorobenzene (1,4-DCB)	ND			
MBLK	p-Isopropyltoluene	ND			
MBLK	sec-Butylbenzene	ND			
MBLK	tert-Butylbenzene	ND			
LCS1	trans-1,2-Dichloroethylene	4	3.75	93.8	(70.00 - 130.00)
MBLK	trans-1,2-Dichloroethylene	ND			
MBLK	trans-1,3-Dichloropropene	ND			

QC Batch #67015 Alkalinity

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Alkalinity	96.2	97.2	101.0	(90.00 - 110.00)	
LCS2	Alkalinity	96.2	96.6	100.4	(90.00 - 110.00)	0.62
MBLK	Alkalinity	ND				
MS	Alkalinity	96.2	97.8	101.7	(80.00 - 120.00)	
MSD	Alkalinity	96.2	96.5	100.3	(80.00 - 120.00)	1.3

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Criteria for MS and DUP are not applicable for ICR monitoring.

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QC Batch #67066 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Total Dissolved Solid (TDS)	175	174	99.4	(85.00 - 115.00)	
LCS2	Total Dissolved Solid (TDS)	700	672	96.0	(85.00 - 115.00)	
MBLK	Total Dissolved Solid (TDS)	ND				

QC Batch #67291 Perchlorate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Perchlorate	20.0	19.6	98.0	(90.00 - 110.00)	
LCS2	Perchlorate	20.0	19.6	98.0	(90.00 - 110.00)	0.00
MBLK	Perchlorate	ND				
MS	Perchlorate	20.0	19.1	95.5	(75.00 - 125.00)	
MSD	Perchlorate	20.0	19.1	95.5	(75.00 - 125.00)	0.00

QC Batch #67578 Potassium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Potassium, Flame AA	20	20.1	100.5	(80.00 - 120.00)	
LCS2	Potassium, Flame AA	20	20.7	103.5	(80.00 - 120.00)	2.9
MBLK	Potassium, Flame AA	ND				
MS	Potassium, Flame AA	20	21.0	105.0	(85.00 - 115.00)	
MSD	Potassium, Flame AA	20	20.9	104.5	(85.00 - 115.00)	0.48

QC Batch #67580 Sodium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Sodium, Flame AA	50	48.0	96.0	(90.00 - 110.00)	
LCS2	Sodium, Flame AA	50	47.7	95.4	(90.00 - 110.00)	0.63
MBLK	Sodium, Flame AA	ND				
MS	Sodium, Flame AA	50	47.7	95.4	(85.00 - 115.00)	

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

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MSD	Sodium, Flame AA	50	48.2	96.4	(85.00 - 115.00)	1.0

QC Batch #67585 Magnesium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Magnesium, Flame AA	20	19.2	96.0	(90.00 - 110.00)	
LCS2	Magnesium, Flame AA	20	18.8	94.0	(90.00 - 110.00)	2.1
MBLK	Magnesium, Flame AA	ND				
MS	Magnesium, Flame AA	20	19.7	98.5	(85.00 - 115.00)	
MSD	Magnesium, Flame AA	20	20.1	100.5	(85.00 - 115.00)	2.0

QC Batch #67586 Calcium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Calcium, Flame AA	50	53.2	106.4	(90.00 - 110.00)	
LCS2	Calcium, Flame AA	50	52.6	105.2	(90.00 - 110.00)	1.1
MBLK	Calcium, Flame AA	ND				
MS	Calcium, Flame AA	50	54.8	109.6	(85.00 - 115.00)	
MSD	Calcium, Flame AA	50	55.3	110.6	(85.00 - 115.00)	0.91

QC Batch #68025 Arsenic, Total, GF

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Arsenic, Total, GF	0.020	0.0218	109.0	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.0224	112.0	(85.00 - 115.00)	2.7
MBLK	Arsenic, Total, GF	ND				
MS	Arsenic, Total, GF	0.020	0.0226	113.0	(85.00 - 115.00)	
MSD	Arsenic, Total, GF	0.020	0.0255	<u>127.5</u>	(85.00 - 115.00)	12

Spikes which exceed Limits and Method Blanks with positive results are highlighted by <u>Underlining.</u>
Criteria for MS and DUP are not applicable for ICR monitoring.

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QC Batch #68333 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP/MS	100	105	105.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	107	107.0	(85.00 - 115.00)	1.9
MBLK	Chromium, Total, ICAP/MS	ND		0.0		
MS	Chromium, Total, ICAP/MS	100	100.	100.0	(70.00 - 130.00)	
MSD	Chromium, Total, ICAP/MS	100	102.	102.0	(70.00 - 130.00)	2.0

QC Batch #68335 Iron, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Iron, Total, ICAP/MS	500	489	97.8	(85.00 - 115.00)	
LCS2	Iron, Total, ICAP/MS	500	505	101.0	(85.00 - 115.00)	3.2
MBLK	Iron, Total, ICAP/MS	ND		0.0		
MS	Iron, Total, ICAP/MS	500	508.	102.0	(70.00 - 130.00)	
MSD	Iron, Total, ICAP/MS	500	523.	105.0	(70.00 - 130.00)	2.9

QC Batch #68337 Lead, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Lead, Total, ICAP/MS	20	20.3	101.5	(85.00 - 115.00)	
LCS2	Lead, Total, ICAP/MS	20	20.3	101.5	(85.00 - 115.00)	0.00
MBLK	Lead, Total, ICAP/MS	ND		0.0		
MS	Lead, Total, ICAP/MS	20	20.2	100.5	(70.00 - 130.00)	
MSD	Lead, Total, ICAP/MS	20	20.3	102.0	(70.00 - 130.00)	0.49

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

Report Summary of positive results, PR37387

		Result	MDL	UNITS
Analyzed	970923153 MW-973-92			
Analyzed	970923155 MW-973-93			
09/25/97	Chloroform (Trichloromethane)	1.5	.500	UGL
09/25/97	Dichloromethane	0.6	.500	UGL
Analyzed	970923158 MW-973-00			
09/24/97	Hexavalent chromium (Cr VI)	0.008	.005	MGL
Analyzed	970923159 MW-973-49			
10/01/97	Alkalinity	135	2.000	MGL
10/13/97	Anion Sum	3.11	.001	MEQL
10/09/97	Bicarbonate as HCO3,calculated	159	.001	MGL
10/08/97	Calcium, Flame AA	7.7	1.000	MGL
10/09/97	Carbonate as CO3, Calculated	13.0	.001	MGL
10/14/97	Cation Sum	3.07	.001	MEQL
09/25/97	Chloride	10	1.000	MGL
09/23/97	Lab pH	9.1	.001	UNIT
10/08/97	Magnesium, Flame AA	4.6	1.000	MGL
10/08/97	Potassium, Flame AA	1.7	1.000	MGL
10/08/97	Sodium, Flame AA	52	1.000	MGL
09/30/97	Specific Conductance	310	4.000	UMHO
09/25/97	Sulfate	5.9	2.000	MGL
09/29/97	Total Dissolved Solid (TDS)	180	10.000	MGL
Analyzed	970923163 MW-973-49MS			
09/26/97	1,1-Dichloroethylene	3.76	.500	UGL
09/26/97	1,2,4-Trichlorobenzene	3.29	.500	UGL
09/26/97	Benzene	3.71	.500	UGL
09/26/97	Chlorobenzene	3.45	.500	UGL
09/26/97	Chloroform (Trichloromethane)	3.76	.500	UGL
09/26/97	Toluene	3.69	.500	UGL
09/26/97	Trichloroethylene (TCE)	3.35	.500	UGL
09/26/97	p-Chlorotoluene	3.91	.500	UGL
09/26/97	p-Dichlorobenzene (1,4-DCB)	3.59	.500	UGL
Analyzed	970923164 MW-973-49MSD			
09/26/97	1,1-Dichloroethylene	3.76	.500	UGL
09/26/97	1,2,4-Trichlorobenzene	3.43	.500	UGL
09/26/97	Benzene	3.68	.500	UGL
09/26/97	Chlorobenzene	3.51	.500	UGL
09/26/97	Chloroform (Trichloromethane)	3.82	.500	UGL
09/26/97	Toluene	3.66	.500	UGL
09/26/97	Trichloroethylene (TCE)	3.37	.500	UGL
09/26/97	p-Chlorotoluene	3.83	.500	UGL
09/26/97	p-Dichlorobenzene (1,4-DCB)	3.51	.500	UGL
Analyzed	970923165 MW-973-48			
09/26/97	Carbon Tetrachloride	2.4	.500	UGL

09/26/97	Tetrachloroethylene (PCE)	0.7	.500	UGL
10/01/97	Alkalinity	165	2.000	MGL
10/13/97	Anion Sum	4.05	.001	MEQL
10/09/97	Bicarbonate as HCO3,calculated	201	.001	MGL
11/03/97	Calcium, Flame AA	47	1.000	MGL
10/09/97	Carbonate as CO3, Calculated	1.64	.001	MGL
11/17/97	Cation Sum	4.58	.001	MEQL
09/25/97	Chloride	8.6	1.000	MGL
10/17/97	Iron, Total, ICAP/MS	380	******	UGL
09/23/97	Lab pH	8.1	.001	UNIT
11/01/97	Magnesium, Flame AA	9.7	1.000	MGL
09/25/97	Nitrate-N by IC	0.7	.100	MGL
10/04/97	Perchlorate	12	4.000	UGL
11/01/97	Potassium, Flame AA	1.6	1.000	MGL
11/01/97	Sodium, Flame AA	32	1.000	MGL
09/30/97	Specific Conductance	445	4.000	UMHO
09/25/97	Sulfate	22	2.000	MGL
09/29/97	Total Dissolved Solid (TDS)	250	10.000	MGL

Analyzed 970923167 MW-973-47

09/26/97	Chloroform (Trichloromethane)	6.2	.500	UGL
09/26/97	Tetrachloroethylene (PCE)	1.9	.500	UGL
09/26/97	Trichloroethylene (TCE)	3.0	.500	UGL
10/01/97	Alkalinity	170	2.000	MGL
10/13/97	Anion Sum	4.41	.001	MEQL
10/09/97	Bicarbonate as HCO3,calculated	207	.001	MGL
11/03/97	Calcium, Flame AA	46	1.000	MGL
10/09/97	Carbonate as CO3, Calculated	2.13	.001	MGL
11/08/97	Cation Sum	4.870	.001	MEQL
09/25/97	Chloride	13	1.000	MGL
10/17/97	Iron, Total, ICAP/MS	110	******	UGL
09/23/97	Lab pH	8.2	.001	UNIT
11/01/97	Magnesium, Flame AA	18	1.000	MGL
09/25/97	Nitrate-N by IC	0.2	.100	MGL
11/01/97	Potassium, Flame AA	3.4	1.000	MGL
11/01/97	Sodium, Flame AA	23	1.000	MGL
09/30/97	Specific Conductance	490	4.000	UMHO
09/25/97	Sulfate	30	2.000	MGL
09/29/97	Total Dissolved Solid (TDS)	270	10.000	MGL

Analyzed 970923168 MW-973-46

09/30/97	Bromodichloromethane	0.5	.500	UGL
09/30/97	Chloroform (Trichloromethane)	2.0	.500	UGL
10/01/97	Alkalinity	165	2.000	MGL
10/13/97	Anion Sum	4.44	.001	MEQL
10/09/97	Bicarbonate as HCO3,calculated	201	.001	MGL
11/03/97	Calcium, Flame AA	57	1.000	MGL
10/09/97	Carbonate as CO3, Calculated	0.261	.001	MGL
11/17/97	Cation Sum	4.94	.001	MEQL
09/25/97	Chloride	11	1.000	MGL
10/17/97	Iron, Total, ICAP/MS	140	******	UGL
09/23/97	Lab pH	7.3	.001	UNIT
11/01/97	Magnesium, Flame AA	15	1.000	MGL
09/25/97	Nitrate-N by IC	1.1	.100	MGL
11/01/97	Potassium, Flame AA	2.9	1.000	MGL
11/01/97	Sodium, Flame AA	18	1.000	MGL
09/30/97	Specific Conductance	490	4.000	UMHO
09/25/97	Sulfate	36	2.000	MGL

09/29/97	Total Dissolved Solid (TDS)	270	10.000	MGL

MONTGOMERY WATSON LABORATORIES

December 5, 1997

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

Attention: Mark Cutler

Re: Report # 37387 (MW-973-92, MW-973-93, MW-973-00, MW-973-49, MW-973-49MS, MW-973-49MSD, MW-973-48, MW-973-47, MW-973-46)

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:
(Pb-MS) The blank, associated with this set, had a trace hit at 0.8ppb. This value is less than the CRDL, but greater than the MWL DL. All samples are ND (<0.5ppb). Original data reported. No further action taken.
Other Comments:
(VOC) MW-973-46 is reported from a third run, requiring combination of volume from previously opened VOC vials from the original 2 runs which had QC failures. This is standard MWL practice when necessary.

Chloroform was detected in sample ID: MW-973-93, -47, -46
Dichloromethane was detected in sample ID: MW-973-93
Bromodichloromethane was detected in sample ID: MW-973-46
Carbon Tetrachloride was detected in sample ID: MW-973-48
Tetrachloroethylene was detected in sample ID: MW-973-48, -47
Trichloroethylene was detected in sample ID: MW-973-47
Hex Chrome was detected in sample ID: MW-973-00
Perchlorate was detected in sample ID: MW-973-48
TICs:
Carbon Disulfide was detected in Sample ID: MW-973-48

Sincerely,

Debbie Frank
Project Manager

cc: Judy Novelly (JPL)

a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 626 568 6400
Fax: 626 568 6324

Quality Environmental Analysis

MONTGOMERY WATSON LABORATORIES

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Laboratory Report

for

Foster Wheeler Environmental, Inc
611 Anton Boulevard

Suite 800

Costa Mesa , CA 92626

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

MONTGOMERY WATSON LABS.
SUBMITTED ON

DEC 1 1997

DEB* Debbie Frank

Report#: 37387
JPL

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Laboratory
Report
#37387

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

Samples Received
23-sep-1997 15:51:40

MW-973-92 (970923153) Sampled on 09/23/97

Regulated VOCs plus Lists 1&3

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/25/97	67182	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	09/25/97	67182	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	09/25/97	67182	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/25/97	67182	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	09/25/97	67182	(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	103	% Rec		
			(Surrogate)	Toluene-d8	96	% Rec		

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Laboratory
Report
#37387

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-973-93 (970923155) Sampled on 09/23/97								
10/07/97	10/24/97	68150	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	10/04/97	67292	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
10/07/97	10/17/97	68334	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	09/24/97	66933	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
10/07/97	10/17/97	68338	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
Regulated VOCs plus Lists 1&3								
	09/25/97	67182	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	09/25/97	67182	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	09/25/97	67182	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1

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(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/25/97	67182	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Chloroform (Trichloromethane)	1.5	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Dichloromethane	0.6	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/25/97	67182	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	09/25/97	67182	(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		

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Laboratory
Report
#37387

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
			(Surrogate)	Toluene-d8	96	% Rec		
MW-973-00 (970923158) Sampled on 09/23/97								
	09/24/97	66933	(ML/SW 7196)	Hexavalent chromium (Cr VI)	0.008	mg/l	0.005	1
MW-973-49 (970923159) Sampled on 09/23/97								
	10/01/97	67276	(ML/S2320B)	Alkalinity	135	mg/l	2.0	1
	10/13/97		(ML/SM1040)	Anion Sum	3.11	meq/l	0.0010	1
10/07/97	10/24/97	68150	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	10/08/97	67586	(ML/S3111B)	Calcium, Flame AA	7.7	mg/l	1.0	1
	10/14/97		(ML/SM1040)	Cation Sum	3.07	meq/l	0.0010	1
	09/25/97	66970	(ML/EPA 300)	Chloride	10	mg/l	1.0	1
	10/04/97	67292	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	10/09/97		(ML/S2320-B)	Carbonate as CO3, Calculated	13.0	mg/l	0.0010	1
10/07/97	10/17/97	68334	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	09/24/97	66933	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	09/30/97		(ML/S2510B)	Specific Conductance	310	umho/cm	4.0	1
10/07/97	10/17/97	68336	(EPA/ML 200.8)	Iron, Total, ICAP/MS	ND	ug/l	100	1
	10/09/97		(ML/S2320B)	Bicarbonate as HCO3,calculated	159	mg/l	0.0010	1
	10/08/97	67578	(ML/S3111B)	Potassium, Flame AA	1.7	mg/l	1.0	1
	10/08/97	67585	(ML/S3111B)	Magnesium, Flame AA	4.6	mg/l	1.0	1
	10/08/97	67580	(ML/S3111B)	Sodium, Flame AA	52	mg/l	1.0	1
	09/25/97	66974	(ML/EPA 300.0)	Nitrate-N by IC	ND	mg/l	0.10	1
10/07/97	10/17/97	68338	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	09/23/97		(ML/SM 4500H)	Lab pH	9.1	Units	0.0010	1
	09/25/97	66977	(ML/EPA 300.0)	Sulfate	5.9	mg/l	2.0	1
	09/29/97	67152	(ML/S2540C)	Total Dissolved Solid (TDS)	180	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	09/26/97	67062	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/26/97	67062	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	09/26/97	67062	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	09/26/97	67062	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/26/97	67062	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	09/26/97	67062	(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	91	% Rec		
			(Surrogate)	4-Bromofluorobenzene	107	% Rec		
			(Surrogate)	Toluene-d8	96	% Rec		

MW-973-49MS (970923163) Sampled on 09/23/97

Regulated VOCs plus Lists 1&3

	09/26/97	67062	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	1,1,1-Trichloroethane	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	1,1,2-Trichloroethane	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	1,1-Dichloroethane	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	1,1-Dichloroethylene	3.76	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	1,1-Dichloropropene	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	1,2,3-Trichloropropane	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	3.29	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	NA	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/26/97	67062	(ML/EPA 524.2)	1,2-Dichloroethane	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	1,2-Dichloropropane	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	1,3-Dichloropropane	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	3.59	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	2,2-Dichloropropane	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	2-Butanone (MEK)	NA	ug/l	5.0	1
	09/26/97	67062	(ML/EPA 524.2)	o-Chlorotoluene	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	p-Chlorotoluene	3.91	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	NA	ug/l	5.0	1
	09/26/97	67062	(ML/EPA 524.2)	Benzene	3.71	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Bromobenzene	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Chlorobenzene	3.45	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Carbon Tetrachloride	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	cis-1,3-Dichloropropene	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Bromoform	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Chloroform (Trichloromethane)	3.76	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Bromochloromethane	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Chloroethane	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Chlorodibromomethane	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Dibromomethane	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Bromodichloromethane	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Dichloromethane	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Ethyl benzene	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Dichlorodifluoromethane	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Hexachlorobutadiene	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Isopropylbenzene	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	m,p-Xylenes	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Naphthalene	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	n-Butylbenzene	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	n-Propylbenzene	NA	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/26/97	67062	(ML/EPA 524.2)	o-Xylene	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	p-Isopropyltoluene	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	sec-Butylbenzene	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Styrene	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	tert-Butylbenzene	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Trichloroethylene (TCE)	3.35	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	trans-1,3-Dichloropropene	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Toluene	3.69	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Vinyl chloride (VC)	NA	ug/l	0.30	1
			(Surrogate)	1,2-Dichloroethane-d4	91	% Rec		
			(Surrogate)	4-Bromofluorobenzene	97	% Rec		
			(Surrogate)	Toluene-d8	97	% Rec		

MW-973-49MSD (970923164) Sampled on 09/23/97

Regulated VOCs plus Lists 1&3

	09/26/97	67062	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	1,1,1-Trichloroethane	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	1,1,2-Trichloroethane	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	1,1-Dichloroethane	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	1,1-Dichloroethylene	3.76	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	1,1-Dichloropropene	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	1,2,3-Trichloropropane	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	3.43	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	1,2-Dichloroethane	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	1,2-Dichloropropane	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	1,3-Dichloropropane	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	3.51	ug/l	0.50	1

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(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/26/97	67062	(ML/EPA 524.2)	2,2-Dichloropropane	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	2-Butanone (MEK)	NA	ug/l	5.0	1
	09/26/97	67062	(ML/EPA 524.2)	o-Chlorotoluene	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	p-Chlorotoluene	3.83	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	NA	ug/l	5.0	1
	09/26/97	67062	(ML/EPA 524.2)	Benzene	3.68	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Bromobenzene	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Chlorobenzene	3.51	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Carbon Tetrachloride	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	cis-1,3-Dichloropropene	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Bromoform	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Chloroform (Trichloromethane)	3.82	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Bromochloromethane	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Chloroethane	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Chlorodibromomethane	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Dibromomethane	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Bromodichloromethane	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Dichloromethane	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Ethyl benzene	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Dichlorodifluoromethane	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Hexachlorobutadiene	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Isopropylbenzene	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	m,p-Xylenes	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Naphthalene	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	n-Butylbenzene	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	n-Propylbenzene	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	o-Xylene	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	p-Isopropyltoluene	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	sec-Butylbenzene	NA	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/26/97	67062	(ML/EPA 524.2)	Styrene	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	tert-Butylbenzene	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Trichloroethylene (TCE)	3.37	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	trans-1,3-Dichloropropene	NA	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Toluene	3.66	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Vinyl chloride (VC)	NA	ug/l	0.30	1
			(Surrogate)	1,2-Dichloroethane-d4	94	% Rec		
			(Surrogate)	4-Bromofluorobenzene	95	% Rec		
			(Surrogate)	Toluene-d8	96	% Rec		

MW-973-48 (970923165) Sampled on 09/23/97

	10/01/97	67276	(ML/S2320B)	Alkalinity	165	mg/l	2.0	1
	10/13/97		(ML/SM1040)	Anion Sum	4.05	meq/l	0.0010	1
10/07/97	10/24/97	68150	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	11/03/97	68711	(ML/S3111B)	Calcium, Flame AA	47	mg/l	1.0	1
	11/17/97		(ML/SM1040)	Cation Sum	4.58	meq/l	0.0010	1
	09/25/97	66970	(ML/EPA 300)	Chloride	8.6	mg/l	1.0	1
	10/04/97	67292	(MOD/EPA 300)	Perchlorate	12	ug/l	4.0	1
	10/09/97		(ML/S2320-B)	Carbonate as CO3, Calculated	1.64	mg/l	0.0010	1
10/07/97	10/17/97	68334	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	09/24/97	66933	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	09/30/97		(ML/S2510B)	Specific Conductance	445	umho/cm	4.0	1
10/07/97	10/17/97	68336	(EPA/ML 200.8)	Iron, Total, ICAP/MS	380	ug/l	100	1
	10/09/97		(ML/S2320B)	Bicarbonate as HCO3,calculated	201	mg/l	0.0010	1
	11/01/97	68702	(ML/S3111B)	Potassium, Flame AA	1.6	mg/l	1.0	1
	11/01/97	68708	(ML/S3111B)	Magnesium, Flame AA	9.7	mg/l	1.0	1
	11/01/97	68705	(ML/S3111B)	Sodium, Flame AA	32	mg/l	1.0	1
	09/25/97	66974	(ML/EPA 300.0)	Nitrate-N by IC	0.7	mg/l	0.10	1
10/07/97	10/17/97	68338	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	09/23/97		(ML/SM 4500H)	Lab pH	8.1	Units	0.0010	1
	09/25/97	66977	(ML/EPA 300.0)	Sulfate	22	mg/l	2.0	1
	09/29/97	67152	(ML/S2540C)	Total Dissolved Solid (TDS)	250	mg/l	10	1

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Regulated VOCs plus Lists 1&3

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/26/97	67062	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	09/26/97	67062	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	09/26/97	67062	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Carbon Tetrachloride	2.4	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/26/97	67062	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	0.7	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	Carbon Disulfide (RT=4.31)	1.5	ug/l		1
			(Surrogate)	1,2-Dichloroethane-d4	95	% Rec		
			(Surrogate)	4-Bromofluorobenzene	107	% Rec		
			(Surrogate)	Toluene-d8	96	% Rec		

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-973-47 (970923167) Sampled on 09/23/97								
	10/01/97	67276	(ML/S2320B)	Alkalinity	170	mg/l	2.0	1
	10/13/97		(ML/SM1040)	Anion Sum	4.41	meq/l	0.0010	1
10/07/97	10/24/97	68150	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	11/03/97	68711	(ML/S3111B)	Calcium, Flame AA	46	mg/l	1.0	1
	11/08/97		(ML/SM1040)	Cation Sum	4.870	meq/l	0.0010	1
	09/25/97	66970	(ML/EPA 300)	Chloride	13	mg/l	1.0	1
	10/04/97	67292	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	10/09/97		(ML/S2320-B)	Carbonate as CO3, Calculated	2.13	mg/l	0.0010	1
10/07/97	10/17/97	68334	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	09/24/97	66933	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	09/30/97		(ML/S2510B)	Specific Conductance	490	umho/cm	4.0	1
10/07/97	10/17/97	68336	(EPA/ML 200.8)	Iron, Total, ICAP/MS	110	ug/l	100	1
	10/09/97		(ML/S2320B)	Bicarbonate as HCO3,calculated	207	mg/l	0.0010	1
	11/01/97	68702	(ML/S3111B)	Potassium, Flame AA	3.4	mg/l	1.0	1
	11/01/97	68708	(ML/S3111B)	Magnesium, Flame AA	18	mg/l	1.0	1
	11/01/97	68705	(ML/S3111B)	Sodium, Flame AA	23	mg/l	1.0	1
	09/25/97	66974	(ML/EPA 300.0)	Nitrate-N by IC	0.2	mg/l	0.10	1
10/07/97	10/17/97	68338	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	09/23/97		(ML/SM 4500H)	Lab pH	8.2	Units	0.0010	1
	09/25/97	66977	(ML/EPA 300.0)	Sulfate	30	mg/l	2.0	1
	09/29/97	67152	(ML/S2540C)	Total Dissolved Solid (TDS)	270	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	09/26/97	67062	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1

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Laboratory
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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/26/97	67062	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	09/26/97	67062	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	09/26/97	67062	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Chloroform (Trichloromethane)	6.2	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1

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(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/26/97	67062	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	1.9	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Trichloroethylene (TCE)	3.0	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/26/97	67062	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	09/26/97	67062	(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	105	% Rec		
			(Surrogate)	Toluene-d8	97	% Rec		

MW-973-46 (970923168) Sampled on 09/23/97

	10/01/97	67276	(ML/S2320B)	Alkalinity	165	mg/l	2.0	1
	10/13/97		(ML/SM1040)	Anion Sum	4.44	meq/l	0.0010	1
10/07/97	10/24/97	68150	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	11/03/97	68711	(ML/S3111B)	Calcium, Flame AA	57	mg/l	1.0	1
	11/17/97		(ML/SM1040)	Cation Sum	4.94	meq/l	0.0010	1
	09/25/97	66970	(ML/EPA 300)	Chloride	11	mg/l	1.0	1
	10/04/97	67292	(MOD/EPA 300)	Perchlorate	ND	ug/l	4.0	1
	10/09/97		(ML/S2320-B)	Carbonate as CO3, Calculated	0.261	mg/l	0.0010	1
10/07/97	10/17/97	68334	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	09/24/97	66933	(ML/SW 7196)	Hexavalent chromium (Cr VI)	ND	mg/l	0.005	1
	09/30/97		(ML/S2510B)	Specific Conductance	490	umho/cm	4.0	1
10/07/97	10/17/97	68336	(EPA/ML 200.8)	Iron, Total, ICAP/MS	140	ug/l	100	1
	10/09/97		(ML/S2320B)	Bicarbonate as HCO3,calculated	201	mg/l	0.0010	1
	11/01/97	68702	(ML/S3111B)	Potassium, Flame AA	2.9	mg/l	1.0	1
	11/01/97	68708	(ML/S3111B)	Magnesium, Flame AA	15	mg/l	1.0	1
	11/01/97	68705	(ML/S3111B)	Sodium, Flame AA	18	mg/l	1.0	1
	09/25/97	66974	(ML/EPA 300.0)	Nitrate-N by IC	1.1	mg/l	0.10	1

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(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
10/07/97	10/17/97	68338	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	09/23/97		(ML/SM 4500H)	Lab pH	7.3	Units	0.0010	1
	09/25/97	66977	(ML/EPA 300.0)	Sulfate	36	mg/l	2.0	1
	09/29/97	67152	(ML/S2540C)	Total Dissolved Solid (TDS)	270	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	09/30/97	67183	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/30/97	67183	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	09/30/97	67183	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	09/30/97	67183	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	09/30/97	67183	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	09/30/97	67183	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	09/30/97	67183	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	09/30/97	67183	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	09/30/97	67183	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	09/30/97	67183	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	09/30/97	67183	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	09/30/97	67183	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	09/30/97	67183	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	09/30/97	67183	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	09/30/97	67183	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	09/30/97	67183	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	09/30/97	67183	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	09/30/97	67183	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	09/30/97	67183	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	09/30/97	67183	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	09/30/97	67183	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	09/30/97	67183	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	09/30/97	67183	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	09/30/97	67183	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	09/30/97	67183	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/30/97	67183	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	09/30/97	67183	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	09/30/97	67183	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/30/97	67183	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	09/30/97	67183	(ML/EPA 524.2)	Chloroform (Trichloromethane)	2.0	ug/l	0.50	1

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(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	09/30/97	67183	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	09/30/97	67183	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	09/30/97	67183	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	09/30/97	67183	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	09/30/97	67183	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	09/30/97	67183	(ML/EPA 524.2)	Bromodichloromethane	0.5	ug/l	0.50	1
	09/30/97	67183	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	09/30/97	67183	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	09/30/97	67183	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	09/30/97	67183	(ML/EPA 524.2)	Fluorotrichloromethane-Freon11	ND	ug/l	0.50	1
	09/30/97	67183	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	09/30/97	67183	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	09/30/97	67183	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	09/30/97	67183	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	09/30/97	67183	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	09/30/97	67183	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	09/30/97	67183	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	09/30/97	67183	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	09/30/97	67183	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	09/30/97	67183	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	09/30/97	67183	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	09/30/97	67183	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	09/30/97	67183	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	09/30/97	67183	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	09/30/97	67183	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	09/30/97	67183	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	09/30/97	67183	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	09/30/97	67183	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	09/30/97	67183	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	09/30/97	67183	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	105	% Rec		
			(Surrogate)	4-Bromofluorobenzene	96	% Rec		
			(Surrogate)	Toluene-d8	103	% Rec		

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Report
Comments
#37387

Group Comments

(524) Both vials for MW-973-46 were used for voa analysis because this sample was analyzed twice with QC failure. The third analysis was reported.
(Balance) For some of the samples the percent difference is greater than 5%. The calculations and analyses were checked. Results support the reported values.
(Pb-MS) The digested blank had atrace hit lower than the contract reporting limit but higher than the instrument sensitivity. The trace amount was found to be at 0.8ppb, however all associated samples for the batch were less than 0.5ppb. All samples are reported ND. No further action was taken.

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Laboratory
QC Report
#37387

Foster Wheeler Environmental, Inc

QC Batch #66933 Hexavalent chromium (Cr VI)

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Hexavalent chromium (Cr VI)	0.050	0.0521	104.2	(78.00 - 118.00)	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.0496	99.2	(78.00 - 118.00)	4.9
MBLK	Hexavalent chromium (Cr VI)	ND				
MS	Hexavalent chromium (Cr VI)	0.050	0.0488	97.6	(80.00 - 120.00)	
MSD	Hexavalent chromium (Cr VI)	0.050	0.0496	99.2	(80.00 - 120.00)	1.6

QC Batch #66970 Chloride

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Chloride	25	24.1	96.4	(90.00 - 110.00)	
LCS2	Chloride	25	24.1	96.4	(90.00 - 110.00)	0.00
MBLK	Chloride	ND				
MS	Chloride	25	24.9	99.6	(80.00 - 120.00)	
MSD	Chloride	25	24.9	99.6	(80.00 - 120.00)	0.00

QC Batch #66974 Nitrate-N by IC

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Nitrate-N by IC	2.5	2.38	95.2	(90.00 - 110.00)	
LCS2	Nitrate-N by IC	2.5	2.38	95.2	(90.00 - 110.00)	0.00
MBLK	Nitrate-N by IC	ND				
MS	Nitrate-N by IC	2.5	2.42	96.8	(90.00 - 110.00)	
MSD	Nitrate-N by IC	2.5	2.41	96.4	(90.00 - 110.00)	0.41

QC Batch #66977 Sulfate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Sulfate	50	47.8	95.6	(90.00 - 110.00)	
LCS2	Sulfate	50	47.7	95.4	(90.00 - 110.00)	0.21
MBLK	Sulfate	ND				
MS	Sulfate	50	48.2	96.4	(70.00 - 130.00)	
MSD	Sulfate	50	48.2	96.4	(70.00 - 130.00)	0.00

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