Previous

CONDUCTIVITY/SALINITY/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: T. CHOI Date: 3-5-97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92H92260

Probe Manufacturer: YSI Model: 3526

Serial Number: 92G19465

Calibration Solution Manufacturer: YSI

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

FIELD CALIBRATION

Time: 0751 Temperature of Solution: 16.5

Temperature Compensated Solution Conductivity (µ S/cm) * 727

Instrument Response to Calibration Solution: 730

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

Time: 1700 Temperature of Solution: 37.2

Temperature Compensated Solution Conductivity (µ S/cm) * 1244

Instrument Response to Calibration Solution: 1238

Instrument Response within Instrument and Probe Limits of Error: ** Yes: X 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: J.P.L.

Calibration by: J. BIRENNER Date: 3/6/97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92H4226X

Probe Manufacturer: YSI Model: 3520

Serial Number: 92649465

Calibration Solution Manufacturer: YSI

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

FIELD CALIBRATION

Time: 0810 Temperature of Solution: 15.5

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

Instrument Response to Calibration Solution: 843

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

Time: 1435 Temperature of Solution: 26.3

Temperature Compensated Solution Conductivity (µ S/cm) * 1025

Instrument Response to Calibration Solution: 1036

Instrument Response within Instrument and Probe Limits of Error: ** Yes: X 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: 3/7/97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92442260

Probe Manufacturer: YSI Model: 3520

Serial Number: 92G4946S

Calibration Solution Manufacturer: YSI

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

FIELD CALIBRATION

Time: 0752 Temperature of Solution: 12.0

Temperature Compensated Solution Conductivity (µ S/cm) *: 754

Instrument Response to Calibration Solution: 777

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

Time: 1530 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.

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: T. CHOI Date: 2-3-97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92442260

pH Probe Manufacturer: YSI Model: 3540

Serial Number: 96H808922

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: 92451883

Buffer Solution Manufacturer: API-1200

Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 6-5-98 pH 10.01: 3-18-98

INSTRUMENTATION CHECK-OUT

Time: 0820 Battery Condition: GOOD

Instrument Readings with Shorting Plug in, mV: — Temperature: 13.2 pH: 6.88 ISO: ✓

Reference Chamber Solution Changed ?: —

pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0830 Slope: N/A Temperature: 8.7

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

Time: 1355 Slope: N/A Temperature: 17.6

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: TPC

Calibration by: T. CHU Date: 2-4-97

Instrument Manufacturer: YSI Model: 3600

Serial Number: 92442260

pH Probe Manufacturer: YSI Model: 3540

Serial Number: 96H508922

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: 92H51883

Buffer Solution Manufacturer: API-URCO

Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 6-5-98 pH 10.01: 3-18-98

INSTRUMENTATION CHECK-OUT

Time: 0800 Battery Condition: GOOD

Instrument Readings with Shorting Plug in, mV: — Temperature: 11.6 pH: 9.12 ISO: —

Reference Chamber Solution Changed ?:

pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0805 Slope: — Temperature: 9.6

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

Time: 1540 Slope: N/A Temperature: 18.8

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: TCHOI Date: 2-5-97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92442250

pH Probe Manufacturer: YSI Model: 3540

Serial Number: 96H808922

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: 92451883

Buffer Solution Manufacturer: API-URCO

Expiration Dates of Buffer Solutions pH 4.01: _____ pH 7.00: 6-9-98 pH 10.01: 3-18-98

INSTRUMENTATION CHECK-OUT

Time: 0830 Battery Condition: GOOD

Instrument Readings with Shorting Plug in, mV: — Temperature: 10.3 pH: 7.14 ISO: —

Reference Chamber Solution Changed ?: —

pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0835 Slope: N/A Temperature: 10.3

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

Time: 1615 Slope: N/A Temperature: 19.0

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. CHO Date: 2-6-97
Instrument Manufacturer: YSI Model: 3500
Serial Number: 92H42260
pH Probe Manufacturer: YSI Model: 3540
Serial Number: 96H808922
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 92H51883
Buffer Solution Manufacturer: API-LIRCO
Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 6-5-98 pH 10.01: 3-18-98

INSTRUMENTATION CHECK-OUT

Time: 0810 Battery Condition: GOOD
Instrument Readings with Shorting Plug in, mV: — Temperature: 9.4 pH: 7.16 ISO: —
Reference Chamber Solution Changed ?: —
pH Probe Condition: — GOOD

FIELD CALIBRATION

Time: 0815 Slope: N/A Temperature: 9.3
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: @ 1420 Slope: N/A Temperature: 17.9
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: 2-7-97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92442260

pH Probe Manufacturer: YSI Model: 3540

Serial Number: 96H808922

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: 92H91883

Buffer Solution Manufacturer: API-URCO

Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 2/27/98 pH 10.01: 3/18/98

INSTRUMENTATION CHECK-OUT

Time: 0815 Battery Condition: GOOD

Instrument Readings with Shorting Plug in, mV: — Temperature: 12.2 pH: 7.35 ISO: —

Reference Chamber Solution Changed ?: —

pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0820 Slope: N/A Temperature: 12.4

Response to Low Buffer: 7.00 Response to High Buffer:

Time: 1555 Slope: N/A Temperature: 19.9

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: 2-10-97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92H42260

pH Probe Manufacturer: YSI Model: 3540

Serial Number: 96H808922

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: 92H51883

Buffer Solution Manufacturer: API-LIRCO

Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 2/27/98 pH 10.01: 3/18/98

INSTRUMENTATION CHECK-OUT

Time: 0730 Battery Condition: GOOD

Instrument Readings with Shorting Plug in, mV: — Temperature: 10.4 pH: 8.18 ISO: —

Reference Chamber Solution Changed ?: —

pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0830 Slope: NA Temperature: 10.4

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

Time: 1244 Slope: N/A Temperature: 13.6

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

Time: Slope: Temperature:

Response to Low Buffer: Response to High Buffer:

Comments:

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

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: [illegible] Date: 3-11-97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92H42260

pH Probe Manufacturer: YSI Model: 3540

Serial Number: 96H803922

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: 92H51883

Buffer Solution Manufacturer: API-LIRCO

Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 2/27/98 pH 10.01: 3/18/98

INSTRUMENTATION CHECK-OUT

Time: 0730 Battery Condition: GOOD

Instrument Readings with Shorting Plug in, mV: — Temperature: 8.1 pH: 7.11 ISO:

Reference Chamber Solution Changed ?: —

pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0820 Slope: N/A Temperature: 8.2

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

Time: 1510 Slope: N/A Temperature: 16.7

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. CHOI Date: 2-12-97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92442260

pH Probe Manufacturer: YSI Model: 3600

Serial Number: 96H806922

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: 92451883

Buffer Solution Manufacturer: API-LIRCO

Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 2/27/98 pH 10.01: 3/18/98

INSTRUMENTATION CHECK-OUT

Time: 0730 Battery Condition: GOOD

Instrument Readings with Shorting Plug in, mV: — Temperature: 10.5 pH: 9.72 ISO: —

Reference Chamber Solution Changed ?: —

pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0835 Slope: N/A Temperature: 10.0

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

Time: 1530 Slope: N/A Temperature: 14.1

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

Time: Slope: Temperature:

Response to Low Buffer: Response to High Buffer:

Comments:

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

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL

Calibration by: T.CHOI Date: 2-13-97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92H2260

pH Probe Manufacturer: YSI Model: 3540

Serial Number: 96H808922

ATC Probe Manufacturer: YSI Model: 350

Serial Number: 92H51883

Buffer Solution Manufacturer: API-LIRCO

Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 2/27/98 pH 10.01: 3/18/98

INSTRUMENTATION CHECK-OUT

Time: 0800 Battery Condition: GOOD

Instrument Readings with Shorting Plug in, mV: — Temperature: 12.0 pH: 9.77 ISO: —

Reference Chamber Solution Changed ?: ✓

pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0830 Slope: N/A Temperature: 11.2

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

Time: 1520 Slope: N/A Temperature: 20.1

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

Time: Slope: Temperature:

Response to Low Buffer: Response to High Buffer:

Comments:

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

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
Calibration by: J. BRENNER Date: 2/14/97
Instrument Manufacturer: YSI Model: 3500
Serial Number: 92H2260
pH Probe Manufacturer: YSI Model: 3540
Serial Number: 96H808922
ATC Probe Manufacturer: YSI Model: 390
Serial Number: 92H518883
Buffer Solution Manufacturer: DI-LRCO
Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 2/27/98 pH 10.01: 3/18/98

INSTRUMENTATION CHECK-OUT

Time: 1225 Battery Condition: GOOD
Instrument Readings with Shorting Plug in, mV: — Temperature: 26.4 pH: 9.21 ISO: —
Reference Chamber Solution Changed ?: ✓
pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 1230 Slope: N/A Temperature: 33.1
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: 1435 Slope: N/A Temperature: 28.6
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: 2-18-97
Instrument Manufacturer: YSI Model: 3500
Serial Number: 92H2260
pH Probe Manufacturer: YSI Model: 3540
Serial Number: 96H803922
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 92H51883
Buffer Solution Manufacturer: API-URCO
Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 2/27/98 pH 10.01: 3/18/98

INSTRUMENTATION CHECK-OUT

Time: 0830 Battery Condition: GOOD
Instrument Readings with Shorting Plug in, mV: — Temperature: 13.9 pH: 9.21 ISO: —
Reference Chamber Solution Changed ?: ✓
pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0830 Slope: N/A Temperature: 13.9
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: * NO SAMPLES TAKEN TODAY (EQUIPMENT FAILURE)

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: 2/19/97
Instrument Manufacturer: YSI Model: 3500
Serial Number: 92H2260
pH Probe Manufacturer: YSI Model: 3540
Serial Number: 96H808922
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 92H51883
Buffer Solution Manufacturer: API-ARCO
Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 2/27/98 pH 10.01: 3/18/98

INSTRUMENTATION CHECK-OUT

Time: 1000 Battery Condition: GOOD
Instrument Readings with Shorting Plug in, mV: — Temperature: 15.7 pH: 9.12 ISO: —
Reference Chamber Solution Changed ?: ✓
pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 1010 Slope: N/A Temperature: 15.6
Response to Low Buffer: 7.00 Response to High Buffer: 10.0
Time: 1130 Slope: N/A Temperature: 19.3
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. GHOSH Date: 2-20-97
Instrument Manufacturer: YSI Model: 3500
Serial Number: 92H2260
pH Probe Manufacturer: YSI Model: 3540
Serial Number: 96H808922
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 92H51883
Buffer Solution Manufacturer: API-4RCO
Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 2-27-98 pH 10.01: 3-18-98

INSTRUMENTATION CHECK-OUT

Time: 0810 Battery Condition: GOOD
Instrument Readings with Shorting Plug in, mV: — Temperature: 16.7 pH: 9.15 ISO: —
Reference Chamber Solution Changed ?: ✓
pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0815 Slope: N/A Temperature: 16.9
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: 1435 Slope: N/A Temperature: 22.0
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. BLANEY Date: 2/21/97
Instrument Manufacturer: YSI Model: 3500
Serial Number: 92H42260
pH Probe Manufacturer: YSI Model: 3530
Serial Number: 96H808922
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 92H51883
Buffer Solution Manufacturer: API - LIFCO
Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 6/5/98 pH 10.01: 3/18/98

INSTRUMENTATION CHECK-OUT

Time: 0810 Battery Condition: GOOD
Instrument Readings with Shorting Plug in, mV: — Temperature: 12.6 pH: 7.74 ISO: —
Reference Chamber Solution Changed ?: ✓
pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0815 Slope: N/A Temperature: 12.7
Response to Low Buffer: 7.00 Response to High Buffer: 10.0
Time: 1200 Slope: N/A Temperature: 14.4
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 / T. CHOI Date: 2/24/97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92H2260

pH Probe Manufacturer: YSI Model: 3930

Serial Number: 96H808922

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: 92H51883

Buffer Solution Manufacturer: API - LIZCO

Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 2/27/98 pH 10.01: 3/18/98

INSTRUMENTATION CHECK-OUT

Time: 0830 Battery Condition: GOOD

Instrument Readings with Shorting Plug in, mV: — Temperature: 11.1 pH: 6.70 ISO: —

Reference Chamber Solution Changed ?: ✓

pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0840 Slope: N/A Temperature: 11.2

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

Time: 1420 Slope: N/A Temperature: 14.2

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

Time: Slope: Temperature:

Response to Low Buffer: Response to High Buffer:

Comments:

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

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
Calibration by: T.CHEN Date: 2-26-97
Instrument Manufacturer: YSI Model: 3500
Serial Number: 92H2260
pH Probe Manufacturer: YSI Model: 3530
Serial Number: 96H808922
ATC Probe Manufacturer: YSI Model: 3610
Serial Number: 92H51853
Buffer Solution Manufacturer: API-LIRCO
Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 2-27-98 pH 10.01: 3-18-98

INSTRUMENTATION CHECK-OUT

Time: 0810 Battery Condition: GOOD
Instrument Readings with Shorting Plug in, mV: — Temperature: 10.0 pH: 9.5 ISO: —
Reference Chamber Solution Changed ?: ✓
pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0815 Slope: N/A Temperature: 9.3
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: 1400 Slope: N/A Temperature: 30.3
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: T. Blanny Date: 2/27/97
Instrument Manufacturer: YSI Model: 3500
Serial Number: 92H 22260
pH Probe Manufacturer: YSI Model: 3530
Serial Number: 96H 808 922
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 92H 51883
Buffer Solution Manufacturer: API - LIRCO
Expiration Dates of Buffer Solutions pH 4.01: _____ pH 7.00: 2/27/98 pH 10.01: 3/18/98

INSTRUMENTATION CHECK-OUT

Time: 0915 Battery Condition: GOOD
Instrument Readings with Shorting Plug in, mV: — Temperature: 11.0 pH: 9.68 ISO: —
Reference Chamber Solution Changed ?: ✓
pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0920 Slope: N/A Temperature: 11.0
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: 1511 Slope: N/A Temperature: 14.2
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: 2-28-97
Instrument Manufacturer: YSI Model: 3530
Serial Number: 92H2260
pH Probe Manufacturer: YSI Model: 3530
Serial Number: 96H808922
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 92H51883
Buffer Solution Manufacturer: API-ARCO
Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 2-27-98 pH 10.01: 3-18-98

INSTRUMENTATION CHECK-OUT

Time: 0745 Battery Condition: GOOD
Instrument Readings with Shorting Plug in, mV: — Temperature: 10.3 pH: 9.68 ISO: —
Reference Chamber Solution Changed ?: ✓
pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0750 Slope: N/A Temperature: 10.6
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: 1400 Slope: N/A Temperature: 17.4
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: [illegible]
Calibration by: J. BRENNER Date: 3/3/97
Instrument Manufacturer: YSI Model: 3530
Serial Number: 92H 2260
pH Probe Manufacturer: YSI Model: 3580
Serial Number: 96H 8080922
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 92H 51883
Buffer Solution Manufacturer: API - LIRCO
Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 2/27/98 pH 10.01: 3/18/97

INSTRUMENTATION CHECK-OUT

Time: 0810 Battery Condition: GOOD
Instrument Readings with Shorting Plug in, mV: — Temperature: 8.5 pH: 9.47 ISO:
Reference Chamber Solution Changed ?: ✓
pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0820 Slope: N/A Temperature: 7.3
Response to Low Buffer: 7.0 Response to High Buffer: 10.0
Time: 1455 Slope: N/A Temperature: 22.9
Response to Low Buffer: 7.0 Response to High Buffer: 10.0
Time: Slope: Temperature:
Response to Low Buffer: Response to High Buffer:

Comments:

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

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
Calibration by: T. BLANCY Date: 3/4/97
Instrument Manufacturer: YSI Model: 3500
Serial Number: 93H08703
pH Probe Manufacturer: YSI Model: 3530
Serial Number: N/A
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: N/A
Buffer Solution Manufacturer: API - LIRCO
Expiration Dates of Buffer Solutions pH 4.01: _____ pH 7.00: 6/5/98 pH 10.01: 3/18/98

INSTRUMENTATION CHECK-OUT

Time: 1005 Battery Condition: Good
Instrument Readings with Shorting Plug in, mV: — Temperature: 19.9 pH: 8.82 ISO: —
Reference Chamber Solution Changed ?: ✓
pH Probe Condition: Good

FIELD CALIBRATION

Time: 1005 Slope: N/A Temperature: 13.5
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: 1335 Slope: N/A Temperature: 22.2
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: J BRENNER Date: 3/4/97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92H42260

pH Probe Manufacturer: YSI Model: 3530

Serial Number: 96H808922

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: 92H51883

Buffer Solution Manufacturer: API-LIRCO

Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 2/98 pH 10.01: 3/98

INSTRUMENTATION CHECK-OUT

Time: 0815 Battery Condition: GOOD

Instrument Readings with Shorting Plug in, mV: — Temperature: 11.2 pH: 9.38 ISO: —

Reference Chamber Solution Changed ?: —

pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0835 Slope: N/A Temperature: 8.8

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

Time: 1455 Slope: N/A Temperature: 21.6

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: 3/5/97
Instrument Manufacturer: YSI Model: 3500
Serial Number: 93H08703
pH Probe Manufacturer: YSI Model: 3530
Serial Number: N/A
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: N/A
Buffer Solution Manufacturer: API-LIRCO
Expiration Dates of Buffer Solutions pH 4.01: _____ pH 7.00: 6/5/98 pH 10.01: 3/18/98

INSTRUMENTATION CHECK-OUT

Time: 0835 Battery Condition: GOOD
Instrument Readings with Shorting Plug in, mV: — Temperature: 13.6 pH: 8.82 ISO: —
Reference Chamber Solution Changed ?: ✓
pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0840 Slope: N/A Temperature: 14.0
Response to Low Buffer: 7.00 Response to High Buffer: 10.00
Time: 1405 Slope: N/A Temperature: 23.9
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: 2-5-97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92442260

pH Probe Manufacturer: YSI Model: 3530

Serial Number: 96H808922

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: 92H51883

Buffer Solution Manufacturer: APL-URCO

Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 2/98 pH 10.01: 3/98

INSTRUMENTATION CHECK-OUT

Time: 0735 Battery Condition: GOOD

Instrument Readings with Shorting Plug in, mV: — Temperature: 8.3 pH: 9.15 ISO: —

Reference Chamber Solution Changed ?: —

pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0753 Slope: N/A Temperature: 11.0

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

Time: 1455 Slope: N/A Temperature: 38.0

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

Time: Slope: Temperature:

Response to Low Buffer: Response to High Buffer:

Comments:

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

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL
Calibration by: J. BRENNER Date: 3/6/97
Instrument Manufacturer: YSI Model: 3500
Serial Number: 92H422CO
pH Probe Manufacturer: YSI Model: 3530
Serial Number: 96H808922
ATC Probe Manufacturer: YSI Model: 3510
Serial Number: 92H518883
Buffer Solution Manufacturer: API - L1200
Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 2/98 pH 10.01: 3/98

INSTRUMENTATION CHECK-OUT

Time: 0800 Battery Condition: GOOD
Instrument Readings with Shorting Plug in, mV: — Temperature: 14.8 pH: 9.60 ISO: —
Reference Chamber Solution Changed ?: —
pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0805 Slope: N/A Temperature: 16.5
Response to Low Buffer: 7.0 Response to High Buffer: 10.0
Time: 1425 Slope: N/A Temperature: 25.5
Response to Low Buffer: 7.0 Response to High Buffer: 10.0
Time: Slope: Temperature:
Response to Low Buffer: Response to High Buffer:

Comments:

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

pH/TEMPERATURE METER FIELD CALIBRATION FORM

Project Name: JPL ~~[illegible]~~

Calibration by: T. CHOI Date: 3-7-97

Instrument Manufacturer: YSI Model: 3500

Serial Number: 92H42260

pH Probe Manufacturer: YSI Model: 3530

Serial Number: 96H808922

ATC Probe Manufacturer: YSI Model: 3510

Serial Number: 92H51888

Buffer Solution Manufacturer: API-LIRCO

Expiration Dates of Buffer Solutions pH 4.01: — pH 7.00: 2/98 pH 10.01: 3/98

INSTRUMENTATION CHECK-OUT

Time: 0755 Battery Condition: GOOD

Instrument Readings with Shorting Plug in, mV: — Temperature: 11.7 pH: 9.49 ISO: ✓

Reference Chamber Solution Changed ?: —

pH Probe Condition: GOOD

FIELD CALIBRATION

Time: 0800 Slope: N/A Temperature: 11.7

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

Time: 1530 Slope: N/A Temperature: 35.0

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%

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL
Standardization by: Tashi Date: 2-3-97
Instrument Manufacturer: HF SCIENTIFIC Model: DRT-CI
Serial Number: 7276 Calibration Date: 2-3-97

STANDARDIZATION

Time: 1015 Selected Scale: 10 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: 1350 Selected Scale: 10 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:

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: 2-4-97

Instrument Manufacturer: HF SCIENTIFIC Model: DRT-CE

Serial Number: 7276 Calibration Date: 2-4-97

STANDARDIZATION

Time: 0825 Scale: 10 Zero: YES Stray Light: N/A

Standard NTU: 0.02 Reading: 0.02

Standard NTU: Reading:

Time: 1610 Scale: 10 Zero: YES Stray Light: N/A

Standard NTU: 0.02 Reading: 0.02

Standard NTU: Reading:

Time: Scale: Zero: Stray Light:

Standard NTU: Reading:

Standard NTU: Reading:

Time: Scale: Zero: Stray Light:

Standard NTU: Reading:

Standard NTU: Reading:

Time: Scale: Zero: Stray Light:

Standard NTU: Reading:

Standard NTU: Reading:

Time: Scale: Zero: Stray Light:

Standard NTU: Reading:

Standard NTU: Reading:

Time: Scale: Zero: Stray Light:

Standard NTU: Reading:

Standard NTU: Reading:

Comments:

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL

Standardization by: T. CHEN Date: 2-3-97

Instrument Manufacturer: HF SCIENTIFIC Model: DRT-CE

Serial Number: 7276 Calibration Date: 2-3-97

STANDARDIZATION

Time: 0800 Scale: 10 Zero: YES Stray Light: NA

Standard NTU: 0.02 Reading: 0.02

Standard NTU: Reading:

Time: 1540 Scale: 10 Zero: YES Stray Light: N/A

Standard NTU: 0.02 Reading: 0.02

Standard NTU: Reading:

Time: Scale: Zero: Stray Light:

Standard NTU: Reading:

Standard NTU: Reading:

Time: Scale: Zero: Stray Light:

Standard NTU: Reading:

Standard NTU: Reading:

Time: Scale: Zero: Stray Light:

Standard NTU: Reading:

Standard NTU: Reading:

Time: Scale: Zero: Stray Light:

Standard NTU: Reading:

Standard NTU: Reading:

Time: Scale: Zero: Stray Light:

Standard NTU: Reading:

Standard NTU: Reading:

Comments:

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL
Standardization by: TCW Date: 2-6-97
Instrument Manufacturer: HFSCIENTIFIC Model: DRT-CE
Serial Number: 7276 Calibration Date: 2-6-97

STANDARDIZATION

Time: 0810 Selected Scale: 10 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: 1425 Selected Scale: 10 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: _____

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: 2-7-97

Instrument Manufacturer: HF SCIENTIFIC Model: DRT-CE

Serial Number: 7276 Calibration Date: 2-7-97

STANDARDIZATION

Time: 0815 Selected Scale: 10 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: 1522 Selected Scale: 10 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: _____

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: 2-10-97
Instrument Manufacturer: HF SCIENTIFIC Model: DRT-CE
Serial Number: 7276 Calibration Date: 2-10-97

STANDARDIZATION

Time: 0830 Selected Scale: 10 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: 1242 Selected Scale: 10 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:

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.CHO Date: 2-11-97

Instrument Manufacturer: HF SCIENTIFIC Model: DRT-CE

Serial Number: 7276 Calibration Date: 2-11-97

STANDARDIZATION

Time: 1515 Selected Scale: 10 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: 1510 Selected Scale: 10 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: 2-12-97

Instrument Manufacturer: HF SCIENTIFIC Model: DRT-CE

Serial Number: 7276 Calibration Date: 2-12-97

STANDARDIZATION

Time: 0837 Selected Scale: 10 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: 1530 Selected Scale: 10 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:

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: 2-13-97

Instrument Manufacturer: HF SCIENTIFIC Model: DRT-CE

Serial Number: 7276 Calibration Date: 2-13-97

STANDARDIZATION

Time: 0820 Selected Scale: 10 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: 1525 Selected Scale: 10 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: _____

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: 2/14/97

Instrument Manufacturer: HF SCIENTIFIC Model: PRT. CE

Serial Number: 7276 Calibration Date: 2/14/97

STANDARDIZATION

Time: 1225 Selected Scale: 10 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: 1435 Selected Scale: 10 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: _____

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: 2-18-97

Instrument Manufacturer: HF SCIENTIFIC Model: DRT-CC

Serial Number: 7276 Calibration Date: 2-18-97

STANDARDIZATION

Time: 0830 Selected Scale: 10 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:

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

NTU of Standard: Instrument Reading:

NTU of Standard: Instrument Reading:

Comments: * NO SAMPLES TAKEN TODAY (EQUIPMENT FAILURE)

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TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL

Standardization by: T. CHOI Date: 2-19-97

Instrument Manufacturer: HF SCIENTIFIC Model: DRT-CE

Serial Number: 7276 Calibration Date: 2-19-97

STANDARDIZATION

Time: 1010 Selected Scale: 10 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: 10 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: 2-20-97
Instrument Manufacturer: HF SCIENTIFIC Model: DRT-CE
Serial Number: 7276 Calibration Date: 2-20-97

STANDARDIZATION

Time: 0815 Selected Scale: 10 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: 1435 Selected Scale: 10 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: ____

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: 2/21/97
Instrument Manufacturer: HF Scientific Model: DRT-15CE
Serial Number: 7276 Calibration Date: 2/21/97

STANDARDIZATION

Time: 0815 Selected Scale: 10 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: 1200 Selected Scale: 10 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:

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 / T. CHOI Date: 2/24/97

Instrument Manufacturer: HF SCIENTIFIC Model: DRT-CE

Serial Number: 7276 Calibration Date: 2/24/97

STANDARDIZATION

Time: 0835 Selected Scale: 10 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: 1420 Selected Scale: 10 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: JCHOI Date: 2-26-97

Instrument Manufacturer: HF SCIENTIFIC Model: DRT-CE

Serial Number: 7276 Calibration Date: 2/28/97

STANDARDIZATION

Time: 0815 Selected Scale: ~~N/A~~ 10 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: 10 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. Blanchy Date: 2/27/97
Instrument Manufacturer: Hf Scientific Model: DRT-15CE
Serial Number: 7276 Calibration Date: 2/27/97

STANDARDIZATION

Time: 0920 Selected Scale: 10 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: 1510 Selected Scale: 10 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: 2-28-97

Instrument Manufacturer: HF SCIENTIFIC Model: DRT-15CE

Serial Number: 7276 Calibration Date: 2-28-97

STANDARDIZATION

Time: 0750 Selected Scale: 10 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: 10 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: _____

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: 3/3/97
Instrument Manufacturer: HF SCIENTIFIC Model: DRT-15CE
Serial Number: 7276 Calibration Date: 3/3/97

STANDARDIZATION

Time: 0820 Selected Scale: 10 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: 1450 Selected Scale: 10 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:

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: 3/4/97
Instrument Manufacturer: Hf Scientific Model: DRT-15CE
Serial Number: 29040 Calibration Date: 3/4/97

STANDARDIZATION

Time: 1005 Selected Scale: 10 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: 1335 Selected Scale: 10 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: _____

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: 3/4/97

Instrument Manufacturer: HF SCIENTIFIC Model: DRT-15CE

Serial Number: 7276 Calibration Date: 3/4/97

STANDARDIZATION

Time: 0815 Scale: 10 Zero: YES Stray Light: N/A

Standard NTU: 0.02 Reading: 0.02

Standard NTU: Reading:

Time: 1455 Scale: 10 Zero: YES Stray Light: N/A

Standard NTU: 0.02 Reading: 0.02

Standard NTU: Reading:

Time: Scale: Zero: Stray Light:

Standard NTU: Reading:

Standard NTU: Reading:

Time: Scale: Zero: Stray Light:

Standard NTU: Reading:

Standard NTU: Reading:

Time: Scale: Zero: Stray Light:

Standard NTU: Reading:

Standard NTU: Reading:

Time: Scale: Zero: Stray Light:

Standard NTU: Reading:

Standard NTU: Reading:

Time: Scale: Zero: Stray Light:

Standard NTU: Reading:

Standard NTU: Reading:

Comments:

TURBIDIMETER FIELD STANDARDIZATION FORM

Project Name: JPL
Standardization by: T. Blaney Date: 3/5/97
Instrument Manufacturer: HF Scientific Model: DRT-15CE
Serial Number: 29040 Calibration Date: 3/5/97

STANDARDIZATION

Time: 0840 Selected Scale: 10 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: 10 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: _____

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: 3-5-97

Instrument Manufacturer: HF SCIENTIFIC Model: DRT-15CE

Serial Number: 7276 Calibration Date: 3-5-97

STANDARDIZATION

Time: 0800 Selected Scale: 10 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: 1450 Selected Scale: 10 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: IPL

Standardization by: J. BRENNER Date: 3/6/97

Instrument Manufacturer: HIF SCIENTIFIC Model: DRT-15CE

Serial Number: 7276 Calibration Date: 3/6/97

STANDARDIZATION

Time: 0800 Selected Scale: 10 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: 10 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: 3-7-97

Instrument Manufacturer: HF SCIENTIFIC Model: DRT-CE

Serial Number: 7276 Calibration Date: 3-7-97

STANDARDIZATION

Time: 0745 Selected Scale: 10 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: 1530 Selected Scale: 10 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:

APPENDIX D

LABORATORY ANALYTICAL REPORTS
AND
CHAIN-OF-CUSTODY FORMS

ANALYTICAL RESULTS INDEX

(Well Samples, Blanks, Tributyltin Results)

Well Samples

Well Number/Sample	Report Number	Sample Number	Tab Number	Date Sampled
MW-1	32824	MW-971-01	22	3/7/97
MW-3-1	32824	MW-971-02	22	3/7/97
MW-3-2	32777	MW-971-03	21	3/6/97
MW-3-3	32777	MW-971-04	21	3/6/97
MW-3-3 MS	32777	MW-971-04 MS	21	3/6/97
MW-3-3 MSD	32777	MW-971-04 MSD	21	3/6/97
MW-3-4	32777	MW-971-05	21	3/6/97
MW-3-5	32777	MW-971-06	21	3/6/97
MW-4-1	32621	MW-971-07	17	2/28/97
MW-4-2	32621	MW-971-08	17	2/28/97
MW-4-2 DUP	32621	MW-971-09	17	2/28/97
MW-4-3	32601	MW-971-10	16	2/27/97
MW-4-4	32601	MW-971-11	16	2/27/97
MW-4-5	32601	MW-971-12	16	2/27/97
MW-5	32733	MW-971-13	20	3/5/97
MW-5 MS	32733	MW-971-13 MS	20	3/5/97
MW-5 MSD	32733	MW-971-13 MSD	20	3/5/97
MW-6	32685	MW-971-14	19	3/4/97
MW-7	32733	MW-971-15	20	3/5/97
MW-8	32824	MW-971-16	22	3/7/95
MW-9	32824	MW-971-17	22	3/7/95
MW-10	32733	MW-971-18	20	3/5/97
MW-10 DUP	32733	MW-971-19	20	3/5/97
MW-11-1	32733	MW-971-20	20	3/5/97
MW-11-2	32733	MW-971-21	20	3/5/97
MW-11-3	32733	MW-971-22	20	3/5/97
MW-11-4	32733	MW-971-23	20	3/5/97
MW-11-5	32733	MW-971-24	20	3/5/97
MW-12-1	32685	MW-971-25	19	3/4/97
MW-12-1 DUP	32685	MW-971-26	19	3/4/97
MW-12-2	32645	MW-971-27	18	3/3/97
MW-12-2 MS	32645	MW-971-27 MS	18	3/3/97
MW-12-2 MSD	32645	MW-971-27 MSD	18	3/3/97
MW-12-3	32621	MW-971-28	17	2/28/97
MW-12-4	32621	MW-971-29	17	2/28/97
MW-12-5	32621	MW-971-30	17	2/28/97

ANALYTICAL RESULTS INDEX

Well Samples

Well Number/Sample	Report Number	Sample Number	Tab Number	Date Sampled
MW-13	32824	MW-971-31	22	3/7/97
MW-13 DUP	32824	MW-971-32	22	3/7/97
MW-14-1	32601	MW-971-33	16	2/27/97
MW-14-2	32573	MW-971-34	15	2/26/97
MW-14-3	32573	MW-971-35	15	2/26/97
MW-14-4	32573	MW-971-36	15	2/26/97
MW-14-5	32573	MW-971-37	15	2/26/97
MW-15	32824	MW-971-38	22	3/7/97
MW-16	32685	MW-971-39	19	3/4/97
MW-17-1	32165	MW-971-40	4	2/6/97
MW-17-2	32165	MW-971-41	4	2/6/97
MW-17-3	32186	MW-971-42	5	2/7/97
MW-17-4	32123	MW-971-43	3	2/5/97
MW-17-5	32123	MW-971-44	3	2/5/97
MW-18-1	32100	MW-971-45	2	2/4/97
MW-18-2	32100	MW-971-46	2	2/4/97
MW-18-3	32076	MW-971-47	1	2/3/97
MW-18-3 MSD	32076	MW-971-47 MSD	1	2/3/97
MW-18-4	32076	MW-971-48	1	2/3/97
MW-18-5	32076	MW-971-49	1	2/3/97
MW-19-1	32310	MW-971-50	9	2/13/97
MW-19-2	32391	MW-971-51	11	2/19/97
MW-19-3	32258	MW-971-52	8	2/12/97
MW-19-4	32334	MW-971-53	10	2/14/97
MW-19-5	32238	MW-971-54	7	2/11/97
MW-20-1	32199	MW-971-55	6	2/10/97
MW-20-2	32199	MW-971-56	6	2/10/97
MW-20-3	32199	MW-971-57	6	2/10/97
MW-20-4	32186	MW-971-58	5	2/7/97
MW-20-5	32186	MW-971-59	5	2/7/97
MW-21-1	32461	MW-971-60	13	2/24/97
MW-21-2	32435	MW-971-61	12	2/20/97
MW-21-3	32435	MW-971-62	12	2/20/97
MW-21-4	32435	MW-971-63	12	2/20/97
MW-21-5	32481	MW-971-64	14	2/24/97

ANALYTICAL RESULTS INDEX

Equipment Blanks (EB), Trip Blanks (TB), and Field Blank (FB)

Well Number/Sample	Report Number	Sample Number	Tab Number
EB 2/03/97	32076	MW-971-65	1
EB 2/04/97	32100	MW-971-67	2
EB 2/05/97	32123	MW-971-69	3
EB 2/06/97	32165	MW-971-71	4
EB 2/07/97	32186	MW-971-73	5
EB 2/10/97	32199	MW-971-75	6
EB 2/11/97	32238	MW-971-77	7
EB 2/12/97	32258	MW-971-79	8
EB 2/13/92	32310	MW-971-81	9
EB 2/14/97	32334	MW-971-83	10
EB 2/19/97	32391	MW-971-85	11
EB 2/20/97	32435	MW-971-87	12
EB 2/21/97	32461	MW-971-89	13
EB 2/24/97	32481	MW-971-91	14
EB 2/26/97	32573	MW-971-93	15
EB 2/27/97	32601	MW-971-95	16
EB 2/28/97	32621	MW-971-97	17
EB 3/03/97	32645	MW-971-99	18
EB 3/04/97	32685	MW-971-101	19
EB 3/05/97	32733	MW-971-103	20
EB 3/06/97	32777	MW-971-105	21
EB 3/07/97	32824	MW-971-107	22
FB 3/05/97	32733	MW-971-200	20
TB 2/03/97	32076	MW-971-66	1
TB 2/04/97	32100	MW-971-68	2
TB 2/05/97	32123	MW-971-70	3
TB 2/06/97	32165	MW-971-72	4
TB 2/07/97	32186	MW-971-74	5
TB 2/10/97	32199	MW-971-76	6
TB 2/11/97	32238	MW-971-78	7
TB 2/12/97	32258	MW-971-80	8
TB 2/13/92	32310	MW-971-82	9
TB 2/14/97	32334	MW-971-84	10
TB 2/19/97	32391	MW-971-86	11
TB 2/20/97	32435	MW-971-88	12
TB 2/21/97	32461	MW-971-90	13
TB 2/24/97	32481	MW-971-92	14

ANALYTICAL RESULTS INDEX

Equipment Blanks (EB), Trip Blanks (TB), and Field Blank (FB)

Well Number/Sample	Report Number	Sample Number	Tab Number
TB 2/26/97	32573	MW-971-94	15
TB 2/27/97	32601	MW-971-96	16
TB 2/28/97	32621	MW-971-98	17
TB 3/03/97	32645	MW-971-100	18
TB 3/04/97	32685	MW-971-102	19
TB 3/05/97	32733	MW-971-104	20
TB 3/06/97	32777	MW-971-106	21
TB 3/07/97	32824	MW-971-108	22

ANALYTICAL RESULTS INDEX

Tributyltin Results

Well Number/Sample	Sample Number	Tab Number	Date Sampled
MW-12-1	MW-971-25	23	3/4/97
MW-12-1 DUP	MW-971-26	23	3/4/97
MW-12-2	MW-971-27	23	3/3/97
MW-13	MW-971-31	23	3/18/97
MW-13-DUP	MW-971-32	23	3/18/97
Equipment Blank	MW-971-99	23	3/4/97
Equipment Blank	MW-971-101	23	3/3/97

MONTGOMERY WATSON LABORATORIES

555 East Walnut Street
Pasadena, California 91101
818 568 6400; Fax: 818 568 6324;
1 800 566 LABS (1 800 566 5227)

Laboratory Report

for

Foster Wheeler Environmental, Inc
611 Anton Boulevard

Suite 800

Costa Mesa , CA 92626

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

MONTGOMERY WATSON LABS.
SUBMITTED ON

FEB 26 1997
ADE*

A Eaton

Report#: 32076
JPL

MONTGOMERY WATSON LABORATORIES

February 28, 1997

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

Attention: Mark Cutler

Re: Report # 32076 (MW-971-47, 47 MSD, 48, 49, 65, 66)

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):
All volatile samples were analyzed within holding times with acceptable surrogate and IS recoveries. Iron was recovered high in one LCS, but the second LCS was acceptable.

Samples requiring dilution (with increased MRL's):
Sample -47 was diluted for anions.

Method blanks with compounds detected:
Acetone was detected as a TIC and in the blank. It is possibly a false positive.

Other Comments:
Acetone was detected as a TIC at low levels. Volatiles were detected in several of the samples, including several TCE and carbon tetrachloride hits over the MCL. Sample -47 was used as an MS/MSD for volatiles. Chromium was detected in sample-47 over the CRDL and CrVI was also detected in this sample.

Sincerely,

Andrew Eaton

Andrew Eaton, PhD
Laboratory Director

cc: Judy Novelly (JPL)

Pasadena Division
555 East Walnut Street
Pasadena, California 91101
Tel: 818 568 6400
Fax: 818 568 6324

Madison Division
1 Science Court
Madison, Wisconsin 53711
Tel: 608 231 4747
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Quality Environmental Analysis

MONTGOMERY WATSON LABORATORIES

555 East Walnut Street
Pasadena, California 91101
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1 800 566 LABS (1 800 566 5227)

Laboratory Report #32076

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

Samples Received
03-feb-1997 15:41:22

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-971-47 (970203051) Sampled on 02/03/97								
	02/05/97	59383	(ML/S2320B)	Alkalinity	210	mg/l	2.0	1
	02/25/97		(ML/SM1040)	Anion Sum	5.33	meq/l	0.0010	1
02/14/97	02/18/97	59775	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	02/17/97	59761	(ML/S3111B)	Calcium, Flame AA	60	mg/l	1.0	1
	02/21/97		(ML/SM1040)	Cation Sum	5.63	meq/l	0.0010	1
	02/05/97	59351	(ML/EPA 300)	Chloride	13	mg/l	2.0	2
	02/11/97		(ML/S2320-B)	Carbonate as CO3, Calculated	1.05	mg/l	0.0010	1
02/14/97	02/17/97	59782	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	15	ug/l	10	1
	02/04/97	59328	(ML/SW 7196)	Hexavalent chromium	0.007	mg/l	0.005	1
	02/05/97		(ML/S2510B)	Specific Conductance	485	umho/cm	4.0	1
02/14/97	02/17/97	59783	(EPA/ML 200.8)	Iron, Total, ICAP/MS	280	ug/l	50	1
	02/11/97		(ML/S2320B)	Bicarbonate as HCO3,calculated	256	mg/l	0.0010	1
	02/17/97	59751	(ML/S3111B)	Potassium, Flame AA	2.8	mg/l	1.0	1
	02/17/97	59760	(ML/S3111B)	Magnesium, Flame AA	20	mg/l	1.0	1
	02/17/97	59752	(ML/S3111B)	Sodium, Flame AA	21	mg/l	1.0	1
	02/05/97	59355	(ML/EPA 300.0)	Nitrate-N by IC	1.1	mg/l	0.20	2
02/14/97	02/17/97	59785	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	02/04/97		(ML/S4500H-B)	Lab pH	7.8	Units	0.0010	1
	02/05/97	59358	(ML/EPA 300)	Sulfate	33	mg/l	4.0	2
	02/06/97	59443	(ML/EPA 365.2)	Total phosphorus-P	ND	mg/l	0.050	1
	02/05/79	59339	(ML/S2540C)	Total Dissolved Solids	295	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	02/07/97	59602	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1

MONTGOMERY WATSON LABORATORIES

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Laboratory
Report
#32076

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	02/07/97	59602	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	02/07/97	59602	(ML/EPA 524.2)	2-Chloroethylvinylether	ND	ug/l	1.0	1
	02/07/97	59602	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	02/07/97	59602	(EPA/SM 524.2)	Benzene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Carbon Tetrachloride	0.8	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Chloroform (Trichloromethane)	5.1	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Fluorotrichloromethane(Freon1)	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1

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(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	02/07/97	59602	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	02/07/97	59602	(ML524.2/SW8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/l	5.0	1
	02/07/97	59602	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	2.9	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Trichloroethylene (TCE)	6.6	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	108	% Rec		
			(Surrogate)	4-Bromofluorobenzene	94	% Rec		
			(Surrogate)	Toluene-d8	93	% Rec		

MW-971-47 MS (970203052) Sampled on 02/03/97

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	02/07/97	59602	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,1,1-Trichloroethane	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,1,2-Trichloroethane	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,1-Dichloroethane	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,1-Dichloroethylene	4.61	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,1-Dichloropropene	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,2,3-Trichloropropane	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	3.37	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
	02/07/97	59602	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,2-Dichloroethane	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,2-Dichloropropane	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,3-Dichloropropane	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	3.55	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	2,2-Dichloropropane	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	2-Butanone (MEK)	NA	ug/l	5.0	1
	02/07/97	59602	(ML/EPA 524.2)	2-Chloroethylvinylether	NA	ug/l	1.0	1
	02/07/97	59602	(ML/EPA 524.2)	o-Chlorotoluene	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	p-Chlorotoluene	3.61	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	NA	ug/l	5.0	1
	02/07/97	59602	(EPA/SM 524.2)	Benzene	4.26	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Bromobenzene	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Chlorobenzene	3.99	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Carbon Tetrachloride	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	cis-1,3-Dichloropropene	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Bromoform	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Chloroform (Trichloromethane)	3.26	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Bromochloromethane	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Chloroethane	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Chlorodibromomethane	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Dibromomethane	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Bromodichloromethane	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Dichloromethane	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Ethyl benzene	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Dichlorodifluoromethane	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Fluorotrichloromethane(Freon1)	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Hexachlorobutadiene	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Isopropylbenzene	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	m,p-Xylenes	NA	ug/l	0.50	1
	02/07/97	59602	(ML524.2/SW8260)	Methyl Tert-butyl ether (MTBE)	NA	ug/l	5.0	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	02/07/97	59602	(ML/EPA 524.2)	Naphthalene	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	n-Butylbenzene	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	n-Propylbenzene	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	o-Xylene	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	p-Isopropyltoluene	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	sec-Butylbenzene	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Styrene	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	tert-Butylbenzene	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Trichloroethylene (TCE)	3.21	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	trans-1,3-Dichloropropene	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Toluene	4.42	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Vinyl chloride (VC)	NA	ug/l	0.30	1
			(Surrogate)	1,2-Dichloroethane-d4	101	% Rec		
			(Surrogate)	4-Bromofluorobenzene	85	% Rec		
			(Surrogate)	Toluene-d8	101	% Rec		

MW-971-47 MSD (970203053) Sampled on 02/03/97

Regulated VOCs plus Lists 1&3

	02/07/97	59602	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,1,1-Trichloroethane	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,1,2-Trichloroethane	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,1-Dichloroethane	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,1-Dichloroethylene	4.40	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,1-Dichloropropene	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,2,3-Trichloropropane	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	3.50	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,2-Dichloroethane	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,2-Dichloropropane	NA	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	02/07/97	59602	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,3-Dichloropropane	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	3.62	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	2,2-Dichloropropane	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	2-Butanone (MEK)	NA	ug/l	5.0	1
	02/07/97	59602	(ML/EPA 524.2)	2-Chloroethylvinylether	NA	ug/l	1.0	1
	02/07/97	59602	(ML/EPA 524.2)	o-Chlorotoluene	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	p-Chlorotoluene	3.63	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	NA	ug/l	5.0	1
	02/07/97	59602	(EPA/SM 524.2)	Benzene	4.28	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Bromobenzene	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Chlorobenzene	3.86	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Carbon Tetrachloride	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	cis-1,3-Dichloropropene	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Bromoform	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Chloroform (Trichloromethane)	3.24	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Bromochloromethane	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Chloroethane	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Chlorodibromomethane	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Dibromomethane	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Bromodichloromethane	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Dichloromethane	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Ethyl benzene	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Dichlorodifluoromethane	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Fluorotrichloromethane(Freon1)	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Hexachlorobutadiene	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Isopropylbenzene	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	m,p-Xylenes	NA	ug/l	0.50	1
	02/07/97	59602	(ML524.2/SW8260)	Methyl Tert-butyl ether (MTBE)	NA	ug/l	5.0	1
	02/07/97	59602	(ML/EPA 524.2)	Naphthalene	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	n-Butylbenzene	NA	ug/l	0.50	1
	02/07/97	59602	(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
	02/07/97	59602	(ML/EPA 524.2)	o-Xylene	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	p-Isopropyltoluene	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	sec-Butylbenzene	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Styrene	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	tert-Butylbenzene	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Trichloroethylene (TCE)	3.90	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	trans-1,3-Dichloropropene	NA	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Toluene	4.27	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Vinyl chloride (VC)	NA	ug/l	0.30	1
			(Surrogate)	1,2-Dichloroethane-d4	99	% Rec		
			(Surrogate)	4-Bromofluorobenzene	87	% Rec		
			(Surrogate)	Toluene-d8	97	% Rec		

MW-971-48 (970203054) Sampled on 02/03/97

	02/05/97	59383	(ML/S2320B)	Alkalinity	140	mg/l	2.0	1
	02/25/97		(ML/SM1040)	Anion Sum	3.49	meq/l	0.0010	1
02/14/97	02/18/97	59775	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	02/17/97	59761	(ML/S3111B)	Calcium, Flame AA	26	mg/l	1.0	1
	02/21/97		(ML/SM1040)	Cation Sum	3.71	meq/l	0.0010	1
	02/05/97	59351	(ML/EPA 300)	Chloride	8.1	mg/l	1.0	1
	02/11/97		(ML/S2320-B)	Carbonate as CO3, Calculated	4.37	mg/l	0.0010	1
02/14/97	02/17/97	59782	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	02/04/97	59328	(ML/SW 7196)	Hexavalent chromium	ND	mg/l	0.005	1
	02/05/97		(ML/S2510B)	Specific Conductance	320	umho/cm	4.0	1
02/14/97	02/17/97	59783	(EPA/ML 200.8)	Iron, Total, ICAP/MS	290	ug/l	50	1
	02/11/97		(ML/S2320B)	Bicarbonate as HCO3,calculated	169	mg/l	0.0010	1
	02/17/97	59751	(ML/S3111B)	Potassium, Flame AA	1.5	mg/l	1.0	1
	02/17/97	59760	(ML/S3111B)	Magnesium, Flame AA	13	mg/l	1.0	1
	02/17/97	59752	(ML/S3111B)	Sodium, Flame AA	30	mg/l	1.0	1
	02/05/97	59355	(ML/EPA 300.0)	Nitrate-N by IC	0.6	mg/l	0.10	1
02/14/97	02/17/97	59785	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	02/04/97		(ML/S4500H-B)	Lab pH	8.6	Units	0.0010	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	02/05/97	59358	(ML/EPA 300)	Sulfate	20	mg/l	2.0	1
	02/06/97	59443	(ML/EPA 365.2)	Total phosphorus-P	ND	mg/l	0.050	1
	02/05/79	59339	(ML/S2540C)	Total Dissolved Solids	195	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	02/07/97	59602	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	02/07/97	59602	(ML/EPA 524.2)	2-Chloroethylvinylether	ND	ug/l	1.0	1
	02/07/97	59602	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	02/07/97	59602	(EPA/SM 524.2)	Benzene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Carbon Tetrachloride	2.2	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Chloroform (Trichloromethane)	0.6	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	02/07/97	59602	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Fluorotrichloromethane(Freon1)	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	02/07/97	59602	(ML524.2/SW8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/l	5.0	1
	02/07/97	59602	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	1.5	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	02/07/97	59602	(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	93	% Rec		
			(Surrogate)	Toluene-d8	95	% Rec		

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-971-49 (970203055) Sampled on 02/03/97								
	02/05/97	59383	(ML/S2320B)	Alkalinity	150	mg/l	2.0	1
	02/25/97		(ML/SM1040)	Anion Sum	3.47	meq/l	0.0010	1
02/14/97	02/18/97	59775	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	02/17/97	59761	(ML/S3111B)	Calcium, Flame AA	18	mg/l	1.0	1
	02/21/97		(ML/SM1040)	Cation Sum	3.58	meq/l	0.0010	1
	02/05/97	59351	(ML/EPA 300)	Chloride	12	mg/l	1.0	1
	02/11/97		(ML/S2320-B)	Carbonate as CO3, Calculated	1.87	mg/l	0.0010	1
02/14/97	02/17/97	59782	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	02/04/97	59328	(ML/SW 7196)	Hexavalent chromium	ND	mg/l	0.005	1
	02/05/97		(ML/S2510B)	Specific Conductance	320	umho/cm	4.0	1
02/14/97	02/17/97	59783	(EPA/ML 200.8)	Iron, Total, ICAP/MS	200	ug/l	50	1
	02/11/97		(ML/S2320B)	Bicarbonate as HCO3,calculated	182	mg/l	0.0010	1
	02/17/97	59751	(ML/S3111B)	Potassium, Flame AA	1.6	mg/l	1.0	1
	02/17/97	59760	(ML/S3111B)	Magnesium, Flame AA	5.7	mg/l	1.0	1
	02/17/97	59752	(ML/S3111B)	Sodium, Flame AA	50	mg/l	1.0	1
	02/05/97	59355	(ML/EPA 300.0)	Nitrate-N by IC	ND	mg/l	0.10	1
02/14/97	02/17/97	59785	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	02/04/97		(ML/S4500H-B)	Lab pH	8.2	Units	0.0010	1
	02/05/97	59358	(ML/EPA 300)	Sulfate	6.5	mg/l	2.0	1
	02/06/97	59443	(ML/EPA 365.2)	Total phosphorus-P	ND	mg/l	0.050	1
	02/05/79	59339	(ML/S2540C)	Total Dissolved Solids	200	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	02/07/97	59602	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	02/07/97	59602	(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
	02/07/97	59602	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	02/07/97	59602	(ML/EPA 524.2)	2-Chloroethylvinylether	ND	ug/l	1.0	1
	02/07/97	59602	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	02/07/97	59602	(EPA/SM 524.2)	Benzene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Fluorotrichloromethane(Freon1)	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	02/07/97	59602	(ML524.2/SW8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/l	5.0	1
	02/07/97	59602	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	02/07/97	59602	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	102	% Rec		
			(Surrogate)	4-Bromofluorobenzene	82	% Rec		
			(Surrogate)	Toluene-d8	89	% Rec		
MW-971-65 (970203056)			**Sampled on 02/03/97**					
02/14/97	02/18/97	59775	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
02/14/97	02/17/97	59782	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	02/04/97	59328	(ML/SW 7196)	Hexavalent chromium	ND	mg/l	0.005	1
02/14/97	02/17/97	59785	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
			Regulated VOCs plus Lists 1&3					
	02/07/97	59602	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	02/07/97	59602	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	02/07/97	59602	(ML/EPA 524.2)	2-Chloroethylvinylether	ND	ug/l	1.0	1
	02/07/97	59602	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	02/07/97	59602	(EPA/SM 524.2)	Benzene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Fluorotrichloromethane(Freon1)	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	02/07/97	59602	(ML524.2/SW8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/l	5.0	1
	02/07/97	59602	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	Acetone	2.9(B)	ug/L		1
			(Surrogate)	1,2-Dichloroethane-d4	100	% Rec		
			(Surrogate)	4-Bromofluorobenzene	84	% Rec		
			(Surrogate)	Toluene-d8	88	% Rec		

MW-971-66 (970203057) Sampled on 02/03/97

Regulated VOCs plus Lists 1&3

	02/07/97	59602	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	02/07/97	59602	(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
	02/07/97	59602	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	02/07/97	59602	(ML/EPA 524.2)	2-Chloroethylvinylether	ND	ug/l	1.0	1
	02/07/97	59602	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	02/07/97	59602	(EPA/SM 524.2)	Benzene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Fluorotrichloromethane(Freon1)	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	02/07/97	59602	(ML524.2/SW8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/l	5.0	1
	02/07/97	59602	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	02/07/97	59602	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	02/07/97	59602	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	02/07/97	59602	(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	87	% Rec		
			(Surrogate)	Toluene-d8	92	% Rec		

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Report
Comments
#32076

Group Comments

(524) B indicates that the analyte is also detected in the method blank.

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Laboratory
QC Report
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Foster Wheeler Environmental, Inc

QC Batch #59328 Hexavalent chromium

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Hexavalent chromium	0.050	0.0465	93.0	(78.00 - 118.00)	
LCS2	Hexavalent chromium	0.050	0.0478	95.6	(78.00 - 118.00)	2.8
MBLK	Hexavalent chromium	ND				
MS	Hexavalent chromium	0.050	0.044	88.0	(80.00 - 120.00)	
MSD	Hexavalent chromium	0.050	0.0453	90.6	(80.00 - 120.00)	2.9

QC Batch #59339 Total Dissolved Solids

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Total Dissolved Solids	175	174	99.4	(85.00 - 115.00)	
LCS2	Total Dissolved Solids	175	170	97.1	(85.00 - 115.00)	2.3
MBLK	Total Dissolved Solids	ND				

QC Batch #59351 Chloride

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Chloride	25	25.6	102.4	(90.00 - 110.00)	
LCS2	Chloride	25	25.7	102.8	(90.00 - 110.00)	0.39
MBLK	Chloride	ND				
MS	Chloride	25	26.7	106.8	(80.00 - 120.00)	
MSD	Chloride	25	26.8	107.2	(80.00 - 120.00)	0.37

QC Batch #59355 Nitrate-N by IC

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Nitrate-N by IC	2.5	2.61	104.4	(90.00 - 110.00)	
LCS2	Nitrate-N by IC	2.5	2.62	104.8	(90.00 - 110.00)	0.38
MBLK	Nitrate-N by IC	ND				
MS	Nitrate-N by IC	2.5	2.58	103.2	(80.00 - 120.00)	
MSD	Nitrate-N by IC	2.5	2.61	104.4	(80.00 - 120.00)	1.2

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

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QC Batch #59358 Sulfate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Sulfate	50	50.8	101.6	(90.00 - 110.00)	
LCS2	Sulfate	50	50.8	101.6	(90.00 - 110.00)	0.00
MBLK	Sulfate	ND				
MS	Sulfate	50	53.2	106.4	(70.00 - 130.00)	
MSD	Sulfate	50	53.2	106.4	(70.00 - 130.00)	0.00

QC Batch #59383 Alkalinity

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Alkalinity	96.2	91.5	95.1	(90.00 - 110.00)	
LCS2	Alkalinity	96.2	92.7	96.4	(90.00 - 110.00)	1.3
MBLK	Alkalinity	ND				
MS	Alkalinity	96.2	89.4	92.9	(80.00 - 120.00)	
MSD	Alkalinity	96.2	90.9	94.5	(80.00 - 120.00)	1.7

QC Batch #59443 Total phosphorus-P

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Total phosphorus-P	0.5	0.435	87.0	(80.00 - 120.00)	
LCS2	Total phosphorus-P	0.5	0.426	85.2	(80.00 - 120.00)	2.1
MBLK	Total phosphorus-P	ND				
MS	Total phosphorus-P	0.4	0.332	83.0	(70.00 - 130.00)	
MSD	Total phosphorus-P	0.4	0.334	83.5	(70.00 - 130.00)	0.60

QC Batch #59602 Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	4	4.07	101.8	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				

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

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LCS1	1,1,2,2-Tetrachloroethane	4	3.64	91.0	(70.00 - 130.00)
MBLK	1,1,2,2-Tetrachloroethane	ND			
LCS1	1,1,2-Trichloroethane	4	3.47	86.8	(70.00 - 130.00)
MBLK	1,1,2-Trichloroethane	ND			
LCS1	1,1-Dichloroethane	4	4.25	106.2	(70.00 - 130.00)
MBLK	1,1-Dichloroethane	ND			
LCS1	1,1-Dichloroethylene	4	4.78	119.5	(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	3.51	87.8	(70.00 - 130.00)
MBLK	1,2,4-Trichlorobenzene	ND			
MBLK	1,2,4-Trimethylbenzene	ND			
LCS1	1,2-Dichloroethane	4	4.26	106.5	(70.00 - 130.00)
MBLK	1,2-Dichloroethane	ND			
LCS1	1,2-Dichloropropane	4	3.76	94.0	(70.00 - 130.00)
MBLK	1,2-Dichloropropane	ND			
MBLK	1,3,5-Trimethylbenzene	ND			
LCS1	1,3-Dichloropropane	8	7.22	90.2	(70.00 - 130.00)
MBLK	1,3-Dichloropropane	ND			
MBLK	2,2-Dichloropropane	ND			
MBLK	2-Butanone (MEK)	ND			
MBLK	2-Chloroethylvinylether	ND			
MBLK	4-Methyl-2-Pentanone (MIBK)	ND			
LCS1	Benzene	4	4.40	110.0	(70.00 - 130.00)
MBLK	Benzene	ND			
MBLK	Bromobenzene	ND			
MBLK	Bromochloromethane	ND			
LCS1	Bromodichloromethane	4	3.85	96.2	(70.00 - 130.00)
MBLK	Bromodichloromethane	ND			
LCS1	Bromoform	4	3.49	87.2	(70.00 - 130.00)
MBLK	Bromoform	ND			
MBLK	Bromomethane (Methyl Bromide)	ND			
LCS1	Carbon Tetrachloride	4	4.25	106.2	(70.00 - 130.00)
MBLK	Carbon Tetrachloride	ND			
LCS1	Chlorobenzene	4	3.80	95.0	(70.00 - 130.00)
MBLK	Chlorobenzene	ND			

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

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Laboratory
QC Report
#32076

Foster Wheeler Environmental, Inc
(continued)

LCS1	Chlorodibromomethane	4	3.47	86.8	(70.00 - 130.00)
MBLK	Chlorodibromomethane	ND			
MBLK	Chloroethane	ND			
LCS1	Chloroform (Trichloromethane)	4	3.80	95.0	(70.00 - 130.00)
MBLK	Chloroform (Trichloromethane)	ND			
MBLK	Chloromethane(Methyl Chloride)	ND			
MBLK	Dibromomethane	ND			
MBLK	Dichlorodifluoromethane	ND			
LCS1	Dichloromethane	4	4.50	112.5	(70.00 - 130.00)
MBLK	Dichloromethane	ND			
LCS1	Ethyl benzene	4	3.81	95.2	(70.00 - 130.00)
MBLK	Ethyl benzene	ND			
LCS1	Fluorotrichloromethane(Freon1)	2	2.29	114.5	(70.00 - 130.00)
MBLK	Fluorotrichloromethane(Freon1)	ND			
MBLK	Hexachlorobutadiene	ND			
MBLK	Isopropylbenzene	ND			
LCS1	Methyl Tert-butyl ether (MTBE)	4	4.82	120.5	(70.00 - 130.00)
MBLK	Methyl Tert-butyl ether (MTBE)	ND			
MBLK	Naphthalene	ND			
LCS1	Styrene	4	3.63	90.8	(70.00 - 130.00)
MBLK	Styrene	ND			
LCS1	Tetrachloroethylene (PCE)	4	4.63	115.8	(70.00 - 130.00)
MBLK	Tetrachloroethylene (PCE)	ND			
LCS1	Toluene	4	4.15	103.8	(70.00 - 130.00)
MBLK	Toluene	ND			
LCS1	Trichloroethylene (TCE)	4	4.26	106.5	(70.00 - 130.00)
MBLK	Trichloroethylene (TCE)	ND			
LCS1	Trichlorotrifluoroethane(Freon	4	4.20	105.0	(70.00 - 130.00)
MBLK	Trichlorotrifluoroethane(Freon	ND			
LCS1	Vinyl chloride (VC)	2	2.20	110.0	(70.00 - 130.00)
MBLK	Vinyl chloride (VC)	ND			
LCS1	cis-1,2-Dichloroethylene	4	4.06	101.5	(70.00 - 130.00)
MBLK	cis-1,2-Dichloroethylene	ND			
MBLK	cis-1,3-Dichloropropene	ND			
LCS1	m,p-Xylenes	8	7.90	98.8	(70.00 - 130.00)
MBLK	m,p-Xylenes	ND			
MBLK	m-Dichlorobenzene (1,3-DCB)	ND			
MBLK	n-Butylbenzene	ND			

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Foster Wheeler Environmental, Inc
(continued)

MBLK	n-Propylbenzene	ND			
MBLK	o-Chlorotoluene	ND			
LCS1	o-Dichlorobenzene (1,2-DCB)	4	3.73	93.2	(70.00 - 130.00)
MBLK	o-Dichlorobenzene (1,2-DCB)	ND			
LCS1	o-Xylene	4	3.72	93.0	(70.00 - 130.00)
MBLK	o-Xylene	ND			
MBLK	p-Chlorotoluene	ND			
LCS1	p-Dichlorobenzene (1,4-DCB)	4	3.73	93.2	(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	4.77	119.2	(70.00 - 130.00)
MBLK	trans-1,2-Dichloroethylene	ND			
MBLK	trans-1,3-Dichloropropene	ND			

QC Batch #59751 Potassium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Potassium, Flame AA	20	18.5	92.5	(80.00 - 120.00)	
LCS2	Potassium, Flame AA	20	18.5	92.5	(80.00 - 120.00)	0.00
MBLK	Potassium, Flame AA	ND				
MS	Potassium, Flame AA	20	18.9	94.5	(80.00 - 120.00)	
MSD	Potassium, Flame AA	20	18.8	94.0	(80.00 - 120.00)	0.53

QC Batch #59752 Sodium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Sodium, Flame AA	50	50.2	100.4	(90.00 - 110.00)	
LCS2	Sodium, Flame AA	50	49.6	99.2	(90.00 - 110.00)	1.2
MBLK	Sodium, Flame AA	ND				
MS	Sodium, Flame AA	50	50.1	100.2	(80.00 - 120.00)	
MSD	Sodium, Flame AA	50	49.9	99.8	(80.00 - 120.00)	0.40

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

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(continued)

QC Batch #59760 Magnesium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Magnesium, Flame AA	20	19.1	95.5	(90.00 - 110.00)	
LCS2	Magnesium, Flame AA	20	19.4	97.0	(90.00 - 110.00)	1.6
MBLK	Magnesium, Flame AA	ND				
MS	Magnesium, Flame AA	20	19.7	98.5	(80.00 - 120.00)	
MSD	Magnesium, Flame AA	20	20.2	101.0	(80.00 - 120.00)	2.5

QC Batch #59761 Calcium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Calcium, Flame AA	50	48.9	97.8	(90.00 - 110.00)	
LCS2	Calcium, Flame AA	50	50.3	100.6	(90.00 - 110.00)	2.8
MBLK	Calcium, Flame AA	ND				
MS	Calcium, Flame AA	50	47.5	95.0	(80.00 - 120.00)	
MSD	Calcium, Flame AA	50	49.1	98.2	(80.00 - 120.00)	3.3

QC Batch #59775 Arsenic, Total, GF

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Arsenic, Total, GF	0.020	0.0189	94.5	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.0205	102.5	(85.00 - 115.00)	8.1
MBLK	Arsenic, Total, GF	ND				
MS	Arsenic, Total, GF	0.020	0.0228	114.0	(85.00 - 115.00)	
MSD	Arsenic, Total, GF	0.020	0.0208	104.0	(85.00 - 115.00)	9.2

QC Batch #59782 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP/MS	100	101	101.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	95.1	95.1	(85.00 - 115.00)	6.0
MBLK	Chromium, Total, ICAP/MS	ND		0.0		

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

MONTGOMERY WATSON LABORATORIES

March 11, 1997

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

Attention: Mark Cutler

Re: Report # 32100 (MW-971-67, 68, 46, 45)

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):
For sample -67, 1,2-DCA-d4, a surrogate, failed low and the scond internal standard was recovered below 70%. On a rerun, both IS#2 and IS#3 were recovered below 70% so data from the first analysis was used for volatiles. Reference QIR MS-97-002. No compounds were detected in that sample. Iron was recovered high in one LCS, but the second LCS was acceptable. Only 1 LCS was reported for iron.

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

Method blanks with compounds detected:
None

Other Comments:
Chloroform was detected in several samples.

Sincerely,

Andrew Eaton, PhD
Laboratory Director

cc: Judy Novelly (JPL)

a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 818 568 6400
Fax: 818 568 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
APR 11 1997

Report#: 32100
JPL

MONTGOMERY WATSON LABORATORIES

March 11, 1997

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

Attention: Mark Cutler

Re: Report # 32100 (MW-971-67, 68, 46, 45)

Dear Mark,

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

Method blanks with compounds detected:
None

Other Comments:
Chloroform was detected in several samples.

Sincerely,

Andrew Eaton, PhD
Laboratory Director

cc: Judy Novelly (JPL)

a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 818 568 6400
Fax: 818 568 6324

Quality Environmental Analysis

QUALITY INVESTIGATION REPORT

QIR No. MS-97-002

Analysis Date: 2/8/97
Analysis: 524
Extraction Date: NA
Matrix: 1
Analyst: COL
Instrument ID: GCMSE, GCMSD

SAMPLES IMPACTED

Lab #	Client ID	Client Name	Lab #	Client ID	Client Name
970204102	MW-971-67	FOSTER Wheeler	970207092	MW-971-73	FOSTER Wheeler

Brief Description: (include reason for non-compliance)

① 1,2-DCA-d4 (surrogate) failed low. (73%) and 78% limits are 80-120

Internal Standard #2 recovered < 70%

② when sample was rerun on 2/11/97, IS #2 & IS #3 failed low. (HT up on 2/11/97)

Action Taken: see ② above.

No more sample to rerun.

Impact on Data Quality: minimal. Sample is ND. All other QC are acceptable

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

Other:

Annotation: Ref failed IS

Client Contact: None required

Extraction:		Date:	
Analyst:	Cecilia Lei	Date:	2-18-97
Group Leader:	Cecilia Lei	Date:	2/19/97
QA Coordinator:		Date:	2/21/97
Project Manager:	A. Eaton	Date:	2/21/97

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Laboratory Report #32100

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

Samples Received
04-feb-1997 16:57:46

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
MW-971-67 (970204102) Sampled on 02/04/97								
02/14/97	02/18/97	59775	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
02/14/97	02/17/97	59782	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	02/04/97	59328	(ML/SW 7196)	Hexavalent chromium	ND	mg/l	0.005	1
02/14/97	02/17/97	59785	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
			Regulated VOCs plus Lists 1&3					
	02/08/97	59481	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	02/08/97	59481	(ML/EPA 524.2)	2-Chloroethylvinylether	ND	ug/l	1.0	1
	02/08/97	59481	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	02/08/97	59481	(EPA/SM 524.2)	Benzene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	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
	02/08/97	59481	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Fluorotrichloromethane(Freon1)	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	02/08/97	59481	(ML524.2/SW8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/l	5.0	1
	02/08/97	59481	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Toluene	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
	02/08/97	59481	(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	73	% Rec		
			(Surrogate)	4-Bromofluorobenzene	87	% Rec		
			(Surrogate)	Toluene-d8	94	% Rec		

MW-971-68 (970204103) Sampled on 02/04/97

Regulated VOCs plus Lists 1&3

	02/08/97	59481	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	02/08/97	59481	(ML/EPA 524.2)	2-Chloroethylvinylether	ND	ug/l	1.0	1
	02/08/97	59481	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	02/08/97	59481	(EPA/SM 524.2)	Benzene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	02/08/97	59481	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Fluorotrichloromethane(Freon1)	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	02/08/97	59481	(ML524.2/SW8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/l	5.0	1
	02/08/97	59481	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
			(Surrogate)	1,2-Dichloroethane-d4	84	% Rec		
			(Surrogate)	4-Bromofluorobenzene	85	% Rec		
			(Surrogate)	Toluene-d8	88	% Rec		
MW-971-46 (970204104) Sampled on 02/04/97								
	02/10/97	59554	(ML/S2320B)	Alkalinity	175	mg/l	2.0	1
	02/25/97		(ML/SM1040)	Anion Sum	4.93	meq/l	0.0010	1
02/14/97	02/18/97	59775	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	02/17/97	59761	(ML/S3111B)	Calcium, Flame AA	57	mg/l	1.0	1
	02/21/97		(ML/SM1040)	Cation Sum	5.22	meq/l	0.0010	1
	02/05/97	59351	(ML/EPA 300)	Chloride	15	mg/l	1.0	1
	02/16/97		(ML/S2320-B)	Carbonate as CO3, Calculated	0.694	mg/l	0.0010	1
02/14/97	02/17/97	59782	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	02/04/97	59328	(ML/SW 7196)	Hexavalent chromium	ND	mg/l	0.005	1
	02/05/97		(ML/S2510B)	Specific Conductance	455	umho/cm	4.0	1
02/14/97	02/17/97	59783	(EPA/ML 200.8)	Iron, Total, ICAP/MS	200	ug/l	100	1
	02/16/97		(ML/S2320B)	Bicarbonate as HCO3,calculated	213	mg/l	0.0010	1
	02/17/97	59751	(ML/S3111B)	Potassium, Flame AA	2.6	mg/l	1.0	1
	02/17/97	59760	(ML/S3111B)	Magnesium, Flame AA	18	mg/l	1.0	1
	02/17/97	59752	(ML/S3111B)	Sodium, Flame AA	19	mg/l	1.0	1
	02/05/97	59355	(ML/EPA 300.0)	Nitrate-N by IC	2.1	mg/l	0.10	1
02/14/97	02/17/97	59785	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	02/06/97		(ML/S4500H-B)	Lab pH	7.7	Units	0.0010	1
	02/05/97	59358	(ML/EPA 300)	Sulfate	41	mg/l	2.0	1
	02/06/97	59443	(ML/EPA 365.2)	Total phosphorus-P	ND	mg/l	0.050	1
	02/05/79	59339	(ML/S2540C)	Total Dissolved Solids	292	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	02/08/97	59481	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	02/08/97	59481	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	02/08/97	59481	(ML/EPA 524.2)	2-Chloroethylvinylether	ND	ug/l	1.0	1
	02/08/97	59481	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	02/08/97	59481	(EPA/SM 524.2)	Benzene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Chloroform (Trichloromethane)	1.9	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Fluorotrichloromethane(Freon1)	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	02/08/97	59481	(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
	02/08/97	59481	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	02/08/97	59481	(ML524.2/SW8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/l	5.0	1
	02/08/97	59481	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	02/08/97	59481	(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	81	% Rec		
			(Surrogate)	Toluene-d8	91	% Rec		

MW-971-45 (970204105) Sampled on 02/04/97

	02/10/97	59554	(ML/S2320B)	Alkalinity	130	mg/l	2.0	1
	02/25/97		(ML/SM1040)	Anion Sum	3.68	meq/l	0.0010	1
02/14/97	02/18/97	59775	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	02/17/97	59761	(ML/S3111B)	Calcium, Flame AA	44	mg/l	1.0	1
	02/21/97		(ML/SM1040)	Cation Sum	4.02	meq/l	0.0010	1
	02/05/97	59351	(ML/EPA 300)	Chloride	11	mg/l	1.0	1
	02/16/97		(ML/S2320-B)	Carbonate as CO3, Calculated	0.409	mg/l	0.0010	1
02/14/97	02/17/97	59782	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	02/04/97	59328	(ML/SW 7196)	Hexavalent chromium	ND	mg/l	0.005	1
	02/05/97		(ML/S2510B)	Specific Conductance	345	umho/cm	4.0	1
02/14/97	02/17/97	59783	(EPA/ML 200.8)	Iron, Total, ICAP/MS	180	ug/l	100	1
	02/16/97		(ML/S2320B)	Bicarbonate as HCO3,calculated	158	mg/l	0.0010	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	02/17/97	59751	(ML/S3111B)	Potassium, Flame AA	2.2	mg/l	1.0	1
	02/17/97	59760	(ML/S3111B)	Magnesium, Flame AA	14	mg/l	1.0	1
	02/17/97	59752	(ML/S3111B)	Sodium, Flame AA	14	mg/l	1.0	1
	02/05/97	59355	(ML/EPA 300.0)	Nitrate-N by IC	1.8	mg/l	0.10	1
02/14/97	02/17/97	59785	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	02/06/97		(ML/S4500H-B)	Lab pH	7.6	Units	0.0010	1
	02/05/97	59358	(ML/EPA 300)	Sulfate	31	mg/l	2.0	1
	02/06/97	59443	(ML/EPA 365.2)	Total phosphorus-P	ND	mg/l	0.050	1
	02/05/79	59339	(ML/S2540C)	Total Dissolved Solids	210	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	02/08/97	59481	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	02/08/97	59481	(ML/EPA 524.2)	2-Chloroethylvinylether	ND	ug/l	1.0	1
	02/08/97	59481	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	02/08/97	59481	(EPA/SM 524.2)	Benzene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	02/08/97	59481	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Chloroform (Trichloromethane)	2.5	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Bromodichloromethane	0.5	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Fluorotrichloromethane(Freon1)	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	02/08/97	59481	(ML524.2/SW8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/l	5.0	1
	02/08/97	59481	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	02/08/97	59481	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1

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(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	02/08/97	59481	(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	82	% Rec		
			(Surrogate)	Toluene-d8	92	% Rec		

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Report
Comments
#32100

Group Comments

(Iron) Only one LCS for Iron is reported.

(970204102)
@VOASDWA

(524) 1,2-DCA-d4, a surrogate, failed low and the second internal standard recovered less than 70%. Internal standard #2 and #3 recovered below 70% in the rerun. The first analys is is reported. QIR-MS-97-002.

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Laboratory
QC Report
#32100

Foster Wheeler Environmental, Inc

QC Batch #59328 Hexavalent chromium

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Hexavalent chromium	0.050	0.0465	93.0	(78.00 - 118.00)	
LCS2	Hexavalent chromium	0.050	0.0478	95.6	(78.00 - 118.00)	2.8
MBLK	Hexavalent chromium	ND				
MS	Hexavalent chromium	0.050	0.044	88.0	(80.00 - 120.00)	
MSD	Hexavalent chromium	0.050	0.0453	90.6	(80.00 - 120.00)	2.9

QC Batch #59339 Total Dissolved Solids

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Total Dissolved Solids	175	174	99.4	(85.00 - 115.00)	
LCS2	Total Dissolved Solids	175	170	97.1	(85.00 - 115.00)	2.3
MBLK	Total Dissolved Solids	ND				

QC Batch #59351 Chloride

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Chloride	25	25.6	102.4	(90.00 - 110.00)	
LCS2	Chloride	25	25.7	102.8	(90.00 - 110.00)	0.39
MBLK	Chloride	ND				
MS	Chloride	25	26.7	106.8	(80.00 - 120.00)	
MSD	Chloride	25	26.8	107.2	(80.00 - 120.00)	0.37

QC Batch #59355 Nitrate-N by IC

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Nitrate-N by IC	2.5	2.61	104.4	(90.00 - 110.00)	
LCS2	Nitrate-N by IC	2.5	2.62	104.8	(90.00 - 110.00)	0.38
MBLK	Nitrate-N by IC	ND				
MS	Nitrate-N by IC	2.5	2.58	103.2	(80.00 - 120.00)	
MSD	Nitrate-N by IC	2.5	2.61	104.4	(80.00 - 120.00)	1.2

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

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QC Batch #59358 Sulfate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Sulfate	50	50.8	101.6	(90.00 - 110.00)	
LCS2	Sulfate	50	50.8	101.6	(90.00 - 110.00)	0.00
MBLK	Sulfate	ND				
MS	Sulfate	50	53.2	106.4	(70.00 - 130.00)	
MSD	Sulfate	50	53.2	106.4	(70.00 - 130.00)	0.00

QC Batch #59443 Total phosphorus-P

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Total phosphorus-P	0.5	0.435	87.0	(80.00 - 120.00)	
LCS2	Total phosphorus-P	0.5	0.426	85.2	(80.00 - 120.00)	2.1
MBLK	Total phosphorus-P	ND				
MS	Total phosphorus-P	0.4	0.332	83.0	(70.00 - 130.00)	
MSD	Total phosphorus-P	0.4	0.334	83.5	(70.00 - 130.00)	0.60

QC Batch #59481 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	3.93	98.2	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	3.77	94.2	(70.00 - 130.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	3.37	84.2	(70.00 - 130.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	4.19	104.8	(70.00 - 130.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	4.60	115.0	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MBLK	1,1-Dichloropropene	ND				
MBLK	1,2,3-Trichlorobenzene	ND				

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MBLK	1,2,3-Trichloropropane	ND			
LCS1	1,2,4-Trichlorobenzene	4	3.54	88.5	(70.00 - 130.00)
MBLK	1,2,4-Trichlorobenzene	ND			
MBLK	1,2,4-Trimethylbenzene	ND			
LCS1	1,2-Dichloroethane	4	4.08	102.0	(70.00 - 130.00)
MBLK	1,2-Dichloroethane	ND			
LCS1	1,2-Dichloropropane	4	3.63	90.8	(70.00 - 130.00)
MBLK	1,2-Dichloropropane	ND			
MBLK	1,3,5-Trimethylbenzene	ND			
LCS1	1,3-Dichloropropane	8	6.86	85.8	(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	4.35	108.7	(70.00 - 130.00)
MBLK	Benzene	ND			
MBLK	Bromobenzene	ND			
MBLK	Bromochloromethane	ND			
LCS1	Bromodichloromethane	4	3.63	90.8	(70.00 - 130.00)
MBLK	Bromodichloromethane	ND			
LCS1	Bromoform	4	3.27	81.8	(70.00 - 130.00)
MBLK	Bromoform	ND			
MBLK	Bromomethane (Methyl Bromide)	ND			
LCS1	Carbon Tetrachloride	4	3.88	97.0	(70.00 - 130.00)
MBLK	Carbon Tetrachloride	ND			
LCS1	Chlorobenzene	4	3.70	92.5	(70.00 - 130.00)
MBLK	Chlorobenzene	ND			
LCS1	Chlorodibromomethane	4	3.28	82.0	(70.00 - 130.00)
MBLK	Chlorodibromomethane	ND			
MBLK	Chloroethane	ND			
LCS1	Chloroform (Trichloromethane)	4	3.71	92.8	(70.00 - 130.00)
MBLK	Chloroform (Trichloromethane)	ND			
MBLK	Chloromethane(Methyl Chloride)	ND			
MBLK	Dibromomethane	ND			
MBLK	Dichlorodifluoromethane	ND			
LCS1	Dichloromethane	4	4.13	103.2	(70.00 - 130.00)
MBLK	Dichloromethane	ND			

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LCS1	Ethyl benzene	4	3.61	90.2	(70.00 - 130.00)
MBLK	Ethyl benzene	ND			
LCS1	Fluorotrichloromethane (Freon1)	2	2.17	108.5	(70.00 - 130.00)
MBLK	Fluorotrichloromethane(Freon1)	ND			
MBLK	Hexachlorobutadiene	ND			
MBLK	Isopropylbenzene	ND			
LCS1	Methyl Tert-butyl ether (MTBE)	4	3.68	92.0	(70.00 - 130.00)
MBLK	Methyl Tert-butyl ether (MTBE)	ND			
MBLK	Naphthalene	ND			
LCS1	Styrene	4	3.50	87.5	(70.00 - 130.00)
MBLK	Styrene	ND			
LCS1	Tetrachloroethylene (PCE)	4	4.70	117.5	(70.00 - 130.00)
MBLK	Tetrachloroethylene (PCE)	ND			
LCS1	Toluene	4	4.15	103.8	(70.00 - 130.00)
MBLK	Toluene	ND			
LCS1	Trichloroethylene (TCE)	4	4.19	104.8	(70.00 - 130.00)
MBLK	Trichloroethylene (TCE)	ND			
LCS1	Trichlorotrifluoroethane(Freon	4	4.00	100.0	(70.00 - 130.00)
MBLK	Trichlorotrifluoroethane(Freon	ND			
LCS1	Vinyl chloride (VC)	2	2.16	108.0	(70.00 - 130.00)
MBLK	Vinyl chloride (VC)	ND			
LCS1	cis-1,2-Dichloroethylene	4	4.06	101.5	(70.00 - 130.00)
MBLK	cis-1,2-Dichloroethylene	ND			
MBLK	cis-1,3-Dichloropropene	ND			
LCS1	m,p-Xylenes	8	7.61	95.1	(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	3.80	95.0	(70.00 - 130.00)
MBLK	o-Dichlorobenzene (1,2-DCB)	ND			
LCS1	o-Xylene	4	3.58	89.5	(70.00 - 130.00)
MBLK	o-Xylene	ND			
MBLK	p-Chlorotoluene	ND			
LCS1	p-Dichlorobenzene (1,4-DCB)	4	3.74	93.5	(70.00 - 130.00)
MBLK	p-Dichlorobenzene (1,4-DCB)	ND			
MBLK	p-Isopropyltoluene	ND			

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MBLK	sec-Butylbenzene	ND			
MBLK	tert-Butylbenzene	ND			
LCS1	trans-1,2-Dichloroethylene	4	4.48	112.0	(70.00 - 130.00)
MBLK	trans-1,2-Dichloroethylene	ND			
MBLK	trans-1,3-Dichloropropene	ND			

QC Batch #59554 Alkalinity

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Alkalinity	96.2	96.4	100.2	(90.00 - 110.00)	
LCS2	Alkalinity	96.2	96.6	100.4	(90.00 - 110.00)	0.21
MBLK	Alkalinity	ND				
MS	Alkalinity	96.2	91.9	95.5	(80.00 - 120.00)	
MSD	Alkalinity	96.2	93.4	97.1	(80.00 - 120.00)	1.6

QC Batch #59751 Potassium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Potassium, Flame AA	20	18.5	92.5	(80.00 - 120.00)	
LCS2	Potassium, Flame AA	20	18.5	92.5	(80.00 - 120.00)	0.00
MBLK	Potassium, Flame AA	ND				
MS	Potassium, Flame AA	20	18.9	94.5	(80.00 - 120.00)	
MSD	Potassium, Flame AA	20	18.8	94.0	(80.00 - 120.00)	0.53

QC Batch #59752 Sodium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Sodium, Flame AA	50	50.2	100.4	(90.00 - 110.00)	
LCS2	Sodium, Flame AA	50	49.6	99.2	(90.00 - 110.00)	1.2
MBLK	Sodium, Flame AA	ND				
MS	Sodium, Flame AA	50	50.1	100.2	(80.00 - 120.00)	
MSD	Sodium, Flame AA	50	49.9	99.8	(80.00 - 120.00)	0.40

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(continued)

QC Batch #59760 Magnesium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Magnesium, Flame AA	20	19.1	95.5	(90.00 - 110.00)	
LCS2	Magnesium, Flame AA	20	19.4	97.0	(90.00 - 110.00)	1.6
MBLK	Magnesium, Flame AA	ND				
MS	Magnesium, Flame AA	20	19.7	98.5	(80.00 - 120.00)	
MSD	Magnesium, Flame AA	20	20.2	101.0	(80.00 - 120.00)	2.5

QC Batch #59761 Calcium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Calcium, Flame AA	50	48.9	97.8	(90.00 - 110.00)	
LCS2	Calcium, Flame AA	50	50.3	100.6	(90.00 - 110.00)	2.8
MBLK	Calcium, Flame AA	ND				
MS	Calcium, Flame AA	50	47.5	95.0	(80.00 - 120.00)	
MSD	Calcium, Flame AA	50	49.1	98.2	(80.00 - 120.00)	3.3

QC Batch #59775 Arsenic, Total, GF

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Arsenic, Total, GF	0.020	0.0189	94.5	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.0205	102.5	(85.00 - 115.00)	8.1
MBLK	Arsenic, Total, GF	ND				
MS	Arsenic, Total, GF	0.020	0.0228	114.0	(85.00 - 115.00)	
MSD	Arsenic, Total, GF	0.020	0.0208	104.0	(85.00 - 115.00)	9.2

QC Batch #59782 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP/MS	100	101	101.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	95.1	95.1	(85.00 - 115.00)	6.0
MBLK	Chromium, Total, ICAP/MS	ND		0.0		

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MS	Chromium, Total, ICAP/MS	100	100.	100.0	(70.00 - 130.00)	
MSD	Chromium, Total, ICAP/MS	100	98.1	98.1	(70.00 - 130.00)	1.9

QC Batch #59783 Iron, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Iron, Total, ICAP/MS	500	546	109.2	(85.00 - 115.00)	
MBLK	Iron, Total, ICAP/MS	ND		0.0		
MS	Iron, Total, ICAP/MS	500	482.	96.0	(70.00 - 130.00)	
MSD	Iron, Total, ICAP/MS	500	448.	89.6	(70.00 - 130.00)	7.3

QC Batch #59785 Lead, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Lead, Total, ICAP/MS	20	19.5	97.5	(85.00 - 115.00)	
LCS2	Lead, Total, ICAP/MS	20	19.5	97.5	(85.00 - 115.00)	0.00
MBLK	Lead, Total, ICAP/MS	ND		0.0		
MS	Lead, Total, ICAP/MS	20	19.6	98.0	(70.00 - 130.00)	
MSD	Lead, Total, ICAP/MS	20	19.6	98.0	(70.00 - 130.00)	0.00

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Report Summary of positive results, PR32100

			Result	MDL	UNITS
Analyzed	970204102	MW-971-67			
02/08/97	Data Entry		02/21/97		--
Analyzed	970204103	MW-971-68			
02/08/97	Data Entry		02/11/97		--
Analyzed	970204104	MW-971-46			
02/08/97	Chloroform (Trichloromethane)		1.9	.500	UGL
02/08/97	Data Entry		02/11/97		--
02/10/97	Alkalinity		175	2.000	MGL
02/25/97	Anion Sum		4.93	.001	MEQL
02/16/97	Bicarbonate as HCO3,calculated		213	.001	MGL
02/17/97	Calcium, Flame AA		57	1.000	MGL
02/16/97	Carbonate as CO3, Calculated		0.694	.001	MGL
02/21/97	Cation Sum		5.22	.001	MEQL
02/05/97	Chloride		15	1.000	MGL
02/17/97	Iron, Total, ICAP/MS		200	******	UGL
02/06/97	Lab pH		7.7	.001	UNIT
02/17/97	Magnesium, Flame AA		18	1.000	MGL
02/05/97	Nitrate-N by IC		2.1	.100	MGL
02/17/97	Potassium, Flame AA		2.6	1.000	MGL
02/17/97	Sodium, Flame AA		19	1.000	MGL
02/05/97	Specific Conductance		455	4.000	UMHO
02/05/97	Sulfate		41	2.000	MGL
02/05/79	Total Dissolved Solids		292	10.000	MGL
Analyzed	970204105	MW-971-45			
02/08/97	Bromodichloromethane		0.5	.500	UGL
02/08/97	Chloroform (Trichloromethane)		2.5	.500	UGL
02/08/97	Data Entry		02/11/97		--
02/10/97	Alkalinity		130	2.000	MGL
02/25/97	Anion Sum		3.68	.001	MEQL
02/16/97	Bicarbonate as HCO3,calculated		158	.001	MGL
02/17/97	Calcium, Flame AA		44	1.000	MGL
02/16/97	Carbonate as CO3, Calculated		0.409	.001	MGL
02/21/97	Cation Sum		4.02	.001	MEQL
02/05/97	Chloride		11	1.000	MGL
02/17/97	Iron, Total, ICAP/MS		180	******	UGL
02/06/97	Lab pH		7.6	.001	UNIT
02/17/97	Magnesium, Flame AA		14	1.000	MGL
02/05/97	Nitrate-N by IC		1.8	.100	MGL
02/17/97	Potassium, Flame AA		2.2	1.000	MGL
02/17/97	Sodium, Flame AA		14	1.000	MGL
02/05/97	Specific Conductance		345	4.000	UMHO
02/05/97	Sulfate		31	2.000	MGL
02/05/79	Total Dissolved Solids		210	10.000	MGL

FOR OFFICE USE ONLY

Invoice LO32100

Date 03/10/97

Your Purchase Order No. Sub #SANS94-1162LG

Remit to:
Montgomery Watson Laboratories

Post Office Box 3508
Los Angeles, CA 90051-3508
PHONE:818-568-6400
FAX:818-568-6324

Ship To

Foster Wheeler Environmental,
611 Anton Boulevard
Suite 800
Costa Mesa, CA 92626
Attn: Mark Cutler
PHONE:(714)444-5526
FAX:(714)444-5560

Sold To

Foster Wheeler Environmental,
611 Anton Boulevard
Suite 800
Costa Mesa, CA 92626
Rep To: Mark Cutler
PHONE:(714) 444-5526
FAX:(714) 444-5560

QUANTITY	DESCRIPTION	SAMPLE DATE	UNIT PRICE	TOTAL AMOUNT
4	Regulated VOCs plus Lists 1&3		300.00	1200.00
	ID:MW-971-67/#970204102	02/04/97		
	ID:MW-971-68/#970204103	02/04/97		
	ID:MW-971-46/#970204104	02/04/97		
	ID:MW-971-45/#970204105	02/04/97		
2	Alkalinity		0.00	0.00
	ID:MW-971-46/#970204104	02/04/97		
	ID:MW-971-45/#970204105	02/04/97		
2	Anion Sum		90.00	180.00
	ID:MW-971-46/#970204104	02/04/97		
	ID:MW-971-45/#970204105	02/04/97		
3	Arsenic, Total, GF		15.00	45.00
	ID:MW-971-67/#970204102	02/04/97		
	ID:MW-971-46/#970204104	02/04/97		
	ID:MW-971-45/#970204105	02/04/97		
2	Calcium, Flame AA		0.00	0.00
	ID:MW-971-46/#970204104	02/04/97		
	ID:MW-971-45/#970204105	02/04/97		
2	Cation Sum		75.00	150.00
	ID:MW-971-46/#970204104	02/04/97		
	ID:MW-971-45/#970204105	02/04/97		
2	Chloride		0.00	0.00
	ID:MW-971-46/#970204104	02/04/97		
	ID:MW-971-45/#970204105	02/04/97		
2	Carbonate as CO3, Calculated		0.00	0.00
	ID:MW-971-46/#970204104	02/04/97		
	ID:MW-971-45/#970204105	02/04/97		
3	Chromium, Total, ICAP/MS		65.00	195.00
	ID:MW-971-67/#970204102	02/04/97		
	ID:MW-971-46/#970204104	02/04/97		
	ID:MW-971-45/#970204105	02/04/97		
3	Hexavalent chromium		70.00	210.00
	ID:MW-971-67/#970204102	02/04/97		
	ID:MW-971-46/#970204104	02/04/97		

TERMS = PAY UPON RECEIPT - 18% Charge per year on past due accounts.

Invoice LO 32100 Date 03/10/97 Your Purchase Order No. Sub #SANS94-1162LG

QUANTITY	DESCRIPTION	SAMPLE DATE	UNIT PRICE	TOTAL AMOUNT
	ID:MW-971-45/#970204105	02/04/97		
2	Specific Conductance		0.00	0.00
	ID:MW-971-46/#970204104	02/04/97		
	ID:MW-971-45/#970204105	02/04/97		
2	Iron, Total, ICAP/MS		0.00	0.00
	ID:MW-971-46/#970204104	02/04/97		
	ID:MW-971-45/#970204105	02/04/97		
2	Bicarbonate as HCO3,calculated		0.00	0.00
	ID:MW-971-46/#970204104	02/04/97		
	ID:MW-971-45/#970204105	02/04/97		
2	Potassium, Flame AA		0.00	0.00
	ID:MW-971-46/#970204104	02/04/97		
	ID:MW-971-45/#970204105	02/04/97		
2	Magnesium, Flame AA		0.00	0.00
	ID:MW-971-46/#970204104	02/04/97		
	ID:MW-971-45/#970204105	02/04/97		
2	Sodium, Flame AA		0.00	0.00
	ID:MW-971-46/#970204104	02/04/97		
	ID:MW-971-45/#970204105	02/04/97		
2	Nitrate-N by IC		0.00	0.00
	ID:MW-971-46/#970204104	02/04/97		
	ID:MW-971-45/#970204105	02/04/97		
3	Lead, Total, ICAP/MS		15.00	45.00
	ID:MW-971-67/#970204102	02/04/97		
	ID:MW-971-46/#970204104	02/04/97		
	ID:MW-971-45/#970204105	02/04/97		
2	Lab pH		0.00	0.00
	ID:MW-971-46/#970204104	02/04/97		
	ID:MW-971-45/#970204105	02/04/97		
2	Sulfate		0.00	0.00
	ID:MW-971-46/#970204104	02/04/97		
	ID:MW-971-45/#970204105	02/04/97		
2	Total phosphorus-P		35.00	70.00
	ID:MW-971-46/#970204104	02/04/97		
	ID:MW-971-45/#970204105	02/04/97		
2	Total Dissolved Solids		25.00	50.00
	ID:MW-971-46/#970204104	02/04/97		
	ID:MW-971-45/#970204105	02/04/97		
	TOTAL AMOUNT DUE THIS INVOICE:			$ 2145.00

TERMS = PAY UPON RECEIPT - 18% Charge per year on past due accounts.

MONTGOMERY WATSON LABORATORIES

555 East Walnut Street
Pasadena, California 91101
818 568 6400; Fax: 818 568 6324;
1 800 566 LABS (1 800 566 5227)

Laboratory Report

for

Foster Wheeler Environmental, Inc
611 Anton Boulevard

Suite 800

Costa Mesa , CA 92626

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

MONTGOMERY WATSON LABS.
SUBMITTED ON

FEB 26 1997

ADE* A Eaton

Report#: 32123
JPL

MONTGOMERY WATSON LABORATORIES

February 28, 1997

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

Attention: Mark Cutler

Re: Report # 32123 (MW-971-70, 69, 43, 44)

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):
All volatile samples were analyzed within holding times with acceptable surrogate and IS recoveries. Iron was recovered high in one LCS, but the second LCS was acceptable.

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

Method blanks with compounds detected:
Acetone was detected as a TIC and in the blank. It is possibly a false positive.

Other Comments:
Acetone was detected as a TIC at low levels. Volatiles were detected in several of the samples, including several TCE hits over the MCL. Please note that lead was detected in one sample above the CRDL.

Sincerely,

A Eaton

Andrew Eaton, PhD
Laboratory Director

cc: Judy Novelly (JPL)

Pasadena Division
555 East Walnut Street
Pasadena, California 91101
Tel: 818 568 6400
Fax: 818 568 6324

Madison Division
1 Science Court
Madison, Wisconsin 53711
Tel: 608 231 4747
Fax: 608 231 4777

Quality Environmental Analysis

MONTGOMERY WATSON LABORATORIES

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Pasadena, California 91101
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Laboratory Report #32123

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

Samples Received
05-feb-1997 16:37:23

MW-971-70 (970205089) Sampled on 02/05/97

Regulated VOCs plus Lists 1&3

Anal	Method	Analyte	Result	Units	MDL
02/08/97	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0
02/08/97	(ML/EPA 524.2)	2-Chloroethylvinylether	ND	ug/l	1.0
02/08/97	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0
02/08/97	(EPA/SM 524.2)	Benzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50

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Laboratory Report #32123

Foster Wheeler Environmental, Inc
(continued)

Anal	Method	Analyte	Result	Units	MDL
02/08/97	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Fluorotrichloromethane(Freon1)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50
02/08/97	(ML524.2/SW8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/l	5.0
02/08/97	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30
	(EPA 524.2)	Acetone	4.9B	ug/l	
	(Surrogate)	1,2-Dichloroethane-d4	102	% Rec	
	(Surrogate)	4-Bromofluorobenzene	103	% Rec	

MONTGOMERY WATSON LABORATORIES

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Laboratory
Report
#32123

Foster Wheeler Environmental, Inc
(continued)

Anal	Method	Analyte	Result	Units	MDL
	(Surrogate)	Toluene-d8	92	% Rec	
MW-971-69 (970205090) Sampled on 02/05/97					
02/18/97	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005
02/17/97	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10
02/06/97	(ML/SW 7196)	Hexavalent chromium	ND	mg/l	0.005
02/17/97	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0
		Regulated VOCs plus Lists 1&3			
02/08/97	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0
02/08/97	(ML/EPA 524.2)	2-Chloroethylvinylether	ND	ug/l	1.0
02/08/97	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0
02/08/97	(EPA/SM 524.2)	Benzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50

MONTGOMERY WATSON LABORATORIES

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Laboratory
Report
#32123

Foster Wheeler Environmental, Inc
(continued)

Anal	Method	Analyte	Result	Units	MDL
02/08/97	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Fluorotrichloromethane(Freon1)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50
02/08/97	(ML524.2/SW8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/l	5.0
02/08/97	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30
	(EPA 524.2)	Acetone	3.6B	ug/l	

MONTGOMERY WATSON LABORATORIES

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Pasadena, California 91101
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Foster Wheeler Environmental, Inc
(continued)

Anal	Method	Analyte	Result	Units	MDL
	(Surrogate)	1,2-Dichloroethane-d4	83	% Rec	
	(Surrogate)	4-Bromofluorobenzene	92	% Rec	
	(Surrogate)	Toluene-d8	100	% Rec	
MW-971-43 (970205091)		**Sampled on 02/05/97**			
02/10/97	(ML/S2320B)	Alkalinity	190	mg/l	2.0
02/25/97	(ML/SM1040)	Anion Sum	4.82	meq/l	0.0010
02/18/97	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005
02/17/97	(ML/S3111B)	Calcium, Flame AA	52	mg/l	1.0
02/21/97	(ML/SM1040)	Cation Sum	5.13	meq/l	0.0010
02/05/97	(ML/EPA 300)	Chloride	12	mg/l	1.0
02/16/97	(ML/S2320-B)	Carbonate as CO3, Calculated	1.19	mg/l	0.0010
02/17/97	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10
/06/97	(ML/SW 7196)	Hexavalent chromium	ND	mg/l	0.005
02/10/97	(ML/S2510B)	Specific Conductance	430	umho/cm	4.0
02/17/97	(EPA/ML 200.8)	Iron, Total, ICAP/MS	610	ug/l	50
02/16/97	(ML/S2320B)	Bicarbonate as HCO3,calculated	231	mg/l	0.0010
02/17/97	(ML/S3111B)	Potassium, Flame AA	1.5	mg/l	1.0
02/17/97	(ML/S3111B)	Magnesium, Flame AA	16	mg/l	1.0
02/17/97	(ML/S3111B)	Sodium, Flame AA	27	mg/l	1.0
02/05/97	(ML/EPA 300.0)	Nitrate-N by IC	2.0	mg/l	0.10
02/17/97	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0
02/06/97	(ML/S4500H-B)	Lab pH	7.9	Units	0.0010
02/05/97	(ML/EPA 300)	Sulfate	26	mg/l	2.0
02/06/97	(ML/EPA 365.2)	Total phosphorus-P	ND	mg/l	0.050
02/07/97	(ML/S2540C)	Total Dissolved Solids	240	mg/l	10
		Regulated VOCs plus Lists 1&3			
02/08/97	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50

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Anal	Method	Analyte	Result	Units	MDL
02/08/97	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0
02/08/97	(ML/EPA 524.2)	2-Chloroethylvinylether	ND	ug/l	1.0
02/08/97	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0
02/08/97	(EPA/SM 524.2)	Benzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Chloroform (Trichloromethane)	0.7	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Fluorotrichloromethane(Freon1)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50

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02/08/97	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50
02/08/97	(ML524.2/SW8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/l	5.0
02/08/97	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Trichloroethylene (TCE)	5.8	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30
	(EPA 524.2)	None Detected	ND	NA	
	(Surrogate)	1,2-Dichloroethane-d4	91	% Rec	
	(Surrogate)	4-Bromofluorobenzene	88	% Rec	
	(Surrogate)	Toluene-d8	89	% Rec	

MW-971-44 (970205092) Sampled on 02/05/97

02/10/97	(ML/S2320B)	Alkalinity	180	mg/l	2.0
02/25/97	(ML/SM1040)	Anion Sum	4.58	meq/l	0.0010
02/18/97	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005
02/17/97	(ML/S3111B)	Calcium, Flame AA	40	mg/l	1.0
02/21/97	(ML/SM1040)	Cation Sum	4.86	meq/l	0.0010
02/05/97	(ML/EPA 300)	Chloride	12	mg/l	1.0
02/16/97	(ML/S2320-B)	Carbonate as CO3, Calculated	1.79	mg/l	0.0010
02/17/97	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10
02/06/97	(ML/SW 7196)	Hexavalent chromium	ND	mg/l	0.005
02/10/97	(ML/S2510B)	Specific Conductance	410	umho/cm	4.0
02/17/97	(EPA/ML 200.8)	Iron, Total, ICAP/MS	2900	ug/l	50
02/16/97	(ML/S2320B)	Bicarbonate as HCO3,calculated	219	mg/l	0.0010

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Anal	Method	Analyte	Result	Units	MDL
02/17/97	(ML/S3111B)	Potassium, Flame AA	1.7	mg/l	1.0
02/17/97	(ML/S3111B)	Magnesium, Flame AA	12	mg/l	1.0
02/17/97	(ML/S3111B)	Sodium, Flame AA	42	mg/l	1.0
02/05/97	(ML/EPA 300.0)	Nitrate-N by IC	1.7	mg/l	0.10
02/17/97	(EPA/ML 200.8)	Lead, Total, ICAP/MS	2.5	ug/l	2.0
02/06/97	(ML/S4500H-B)	Lab pH	8.1	Units	0.0010
02/05/97	(ML/EPA 300)	Sulfate	25	mg/l	2.0
02/06/97	(ML/EPA 365.2)	Total phosphorus-P	ND	mg/l	0.050
02/07/97	(ML/S2540C)	Total Dissolved Solids	240	mg/l	10
		Regulated VOCs plus Lists 1&3			
02/08/97	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0
02/08/97	(ML/EPA 524.2)	2-Chloroethylvinylether	ND	ug/l	1.0
02/08/97	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0
02/08/97	(EPA/SM 524.2)	Benzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50

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Anal	Method	Analyte	Result	Units	MDL
02/08/97	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Chloroform (Trichloromethane)	1.3	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Fluorotrichloromethane(Freon1)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50
02/08/97	(ML524.2/SW8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/l	5.0
02/08/97	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	0.7	ug/l	0.50
02/08/97	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Trichloroethylene (TCE)	14	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50

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Anal	Method	Analyte	Result	Units	MDL
02/08/97	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30
	(EPA 524.2)	None Detected	NA	NA	
	(Surrogate)	1,2-Dichloroethane-d4	95	% Rec	
	(Surrogate)	4-Bromofluorobenzene	84	% Rec	
	(Surrogate)	Toluene-d8	87	% Rec	

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Group Comments

(524) B indicates that the analyte is also detected in the method blank.
(Fe-MS) The LCS2 recovery for Iron was high bias and outside the internal QC limit due to an isolated incident. Only the LCS1 recovery is reported per QAPP.

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QC Batch #59351 Chloride

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Chloride	25	25.6	102.4	(90.00 - 110.00)	
LCS2	Chloride	25	25.7	102.8	(90.00 - 110.00)	0.39
MBLK	Chloride	ND				
MS	Chloride	25	26.7	106.8	(80.00 - 120.00)	
MSD	Chloride	25	26.8	107.2	(80.00 - 120.00)	0.37

QC Batch #59355 Nitrate-N by IC

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Nitrate-N by IC	2.5	2.61	104.4	(90.00 - 110.00)	
LCS2	Nitrate-N by IC	2.5	2.62	104.8	(90.00 - 110.00)	0.38
MBLK	Nitrate-N by IC	ND				
MS	Nitrate-N by IC	2.5	2.58	103.2	(80.00 - 120.00)	
MSD	Nitrate-N by IC	2.5	2.61	104.4	(80.00 - 120.00)	1.2

QC Batch #59358 Sulfate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Sulfate	50	50.8	101.6	(90.00 - 110.00)	
LCS2	Sulfate	50	50.8	101.6	(90.00 - 110.00)	0.00
MBLK	Sulfate	ND				
MS	Sulfate	50	53.2	106.4	(70.00 - 130.00)	
MSD	Sulfate	50	53.2	106.4	(70.00 - 130.00)	0.00

QC Batch #59381 Hexavalent chromium

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Hexavalent chromium	0.050	0.0539	107.8	(78.00 - 118.00)	
LCS2	Hexavalent chromium	0.050	0.0488	97.6	(78.00 - 118.00)	9.9
MBLK	Hexavalent chromium	ND				
MS	Hexavalent chromium	0.050	0.0527	105.4	(80.00 - 120.00)	
MSD	Hexavalent chromium	0.050	0.0539	107.8	(80.00 - 120.00)	2.3

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

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QC Batch #59443 Total phosphorus-P

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Total phosphorus-P	0.5	0.435	87.0	(80.00 - 120.00)	
LCS2	Total phosphorus-P	0.5	0.426	85.2	(80.00 - 120.00)	2.1
MBLK	Total phosphorus-P	ND				
MS	Total phosphorus-P	0.4	0.332	83.0	(70.00 - 130.00)	
MSD	Total phosphorus-P	0.4	0.334	83.5	(70.00 - 130.00)	0.60

QC Batch #59481 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	3.93	98.2	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	3.77	94.2	(70.00 - 130.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	3.37	84.2	(70.00 - 130.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	4.19	104.8	(70.00 - 130.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	4.60	115.0	(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	3.54	88.5	(70.00 - 130.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	4	4.08	102.0	(70.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	4	3.63	90.8	(70.00 - 130.00)	
MBLK	1,2-Dichloropropane	ND				
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	8	6.86	85.8	(70.00 - 130.00)	

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

MONTGOMERY WATSON LABORATORIES

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Foster Wheeler Environmental, Inc
(continued)

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	4.35	108.7	(70.00 - 130.00)
MBLK	Benzene	ND			
MBLK	Bromobenzene	ND			
MBLK	Bromochloromethane	ND			
LCS1	Bromodichloromethane	4	3.63	90.8	(70.00 - 130.00)
MBLK	Bromodichloromethane	ND			
LCS1	Bromoform	4	3.27	81.8	(70.00 - 130.00)
MBLK	Bromoform	ND			
MBLK	Bromomethane (Methyl Bromide)	ND			
LCS1	Carbon Tetrachloride	4	3.88	97.0	(70.00 - 130.00)
MBLK	Carbon Tetrachloride	ND			
LCS1	Chlorobenzene	4	3.70	92.5	(70.00 - 130.00)
MBLK	Chlorobenzene	ND			
LCS1	Chlorodibromomethane	4	3.28	82.0	(70.00 - 130.00)
MBLK	Chlorodibromomethane	ND			
MBLK	Chloroethane	ND			
LCS1	Chloroform (Trichloromethane)	4	3.71	92.8	(70.00 - 130.00)
MBLK	Chloroform (Trichloromethane)	ND			
MBLK	Chloromethane(Methyl Chloride)	ND			
MBLK	Dibromomethane	ND			
MBLK	Dichlorodifluoromethane	ND			
LCS1	Dichloromethane	4	4.13	103.2	(70.00 - 130.00)
MBLK	Dichloromethane	ND			
LCS1	Ethyl benzene	4	3.61	90.2	(70.00 - 130.00)
MBLK	Ethyl benzene	ND			
LCS1	Fluorotrichloromethane(Freon1)	2	2.17	108.5	(70.00 - 130.00)
MBLK	Fluorotrichloromethane(Freon1)	ND			
MBLK	Hexachlorobutadiene	ND			
MBLK	Isopropylbenzene	ND			
LCS1	Methyl Tert-butyl ether (MTBE)	4	3.68	92.0	(70.00 - 130.00)
MBLK	Methyl Tert-butyl ether (MTBE)	ND			
MBLK	Naphthalene	ND			
LCS1	Styrene	4	3.50	87.5	(70.00 - 130.00)

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Foster Wheeler Environmental, Inc
(continued)

MBLK	Styrene	ND			
LCS1	Tetrachloroethylene (PCE)	4	4.70	117.5	(70.00 - 130.00)
MBLK	Tetrachloroethylene (PCE)	ND			
LCS1	Toluene	4	4.15	103.8	(70.00 - 130.00)
MBLK	Toluene	ND			
LCS1	Trichloroethylene (TCE)	4	4.19	104.8	(70.00 - 130.00)
MBLK	Trichloroethylene (TCE)	ND			
LCS1	Trichlorotrifluoroethane(Freon	4	4.00	100.0	(70.00 - 130.00)
MBLK	Trichlorotrifluoroethane(Freon	ND			
LCS1	Vinyl chloride (VC)	2	2.16	108.0	(70.00 - 130.00)
MBLK	Vinyl chloride (VC)	ND			
LCS1	cis-1,2-Dichloroethylene	4	4.06	101.5	(70.00 - 130.00)
MBLK	cis-1,2-Dichloroethylene	ND			
MBLK	cis-1,3-Dichloropropene	ND			
LCS1	m,p-Xylenes	8	7.61	95.1	(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	3.80	95.0	(70.00 - 130.00)
MBLK	o-Dichlorobenzene (1,2-DCB)	ND			
LCS1	o-Xylene	4	3.58	89.5	(70.00 - 130.00)
MBLK	o-Xylene	ND			
MBLK	p-Chlorotoluene	ND			
LCS1	p-Dichlorobenzene (1,4-DCB)	4	3.74	93.5	(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	4.48	112.0	(70.00 - 130.00)
MBLK	trans-1,2-Dichloroethylene	ND			
MBLK	trans-1,3-Dichloropropene	ND			

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Foster Wheeler Environmental, Inc
(continued)

QC Batch #59509 Total Dissolved Solids

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Total Dissolved Solids	175	176	100.6	(85.00 - 115.00)	
LCS2	Total Dissolved Solids	175	172	98.3	(85.00 - 115.00)	2.3
MBLK	Total Dissolved Solids	ND				

QC Batch #59554 Alkalinity

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Alkalinity	96.2	96.4	100.2	(90.00 - 110.00)	
LCS2	Alkalinity	96.2	96.6	100.4	(90.00 - 110.00)	0.21
MBLK	Alkalinity	ND				
MS	Alkalinity	96.2	91.9	95.5	(80.00 - 120.00)	
MSD	Alkalinity	96.2	93.4	97.1	(80.00 - 120.00)	1.6

QC Batch #59751 Potassium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Potassium, Flame AA	20	18.5	92.5	(80.00 - 120.00)	
LCS2	Potassium, Flame AA	20	18.5	92.5	(80.00 - 120.00)	0.00
MBLK	Potassium, Flame AA	ND				
MS	Potassium, Flame AA	20	18.9	94.5	(80.00 - 120.00)	
MSD	Potassium, Flame AA	20	18.8	94.0	(80.00 - 120.00)	0.53

QC Batch #59752 Sodium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Sodium, Flame AA	50	50.2	100.4	(90.00 - 110.00)	
LCS2	Sodium, Flame AA	50	49.6	99.2	(90.00 - 110.00)	1.2
MBLK	Sodium, Flame AA	ND				
MS	Sodium, Flame AA	50	50.1	100.2	(80.00 - 120.00)	
MSD	Sodium, Flame AA	50	49.9	99.8	(80.00 - 120.00)	0.40

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Foster Wheeler Environmental, Inc
(continued)

QC Batch #59760 Magnesium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Magnesium, Flame AA	20	19.1	95.5	(90.00 - 110.00)	
LCS2	Magnesium, Flame AA	20	19.4	97.0	(90.00 - 110.00)	1.6
MBLK	Magnesium, Flame AA	ND				
MS	Magnesium, Flame AA	20	19.7	98.5	(80.00 - 120.00)	
MSD	Magnesium, Flame AA	20	20.2	101.0	(80.00 - 120.00)	2.5

QC Batch #59761 Calcium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Calcium, Flame AA	50	48.9	97.8	(90.00 - 110.00)	
LCS2	Calcium, Flame AA	50	50.3	100.6	(90.00 - 110.00)	2.8
MBLK	Calcium, Flame AA	ND				
MS	Calcium, Flame AA	50	47.5	95.0	(80.00 - 120.00)	
MSD	Calcium, Flame AA	50	49.1	98.2	(80.00 - 120.00)	3.3

QC Batch #59775 Arsenic, Total, GF

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Arsenic, Total, GF	0.020	0.0189	94.5	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.0205	102.5	(85.00 - 115.00)	8.1
MBLK	Arsenic, Total, GF	ND				
MS	Arsenic, Total, GF	0.020	0.0228	114.0	(85.00 - 115.00)	
MSD	Arsenic, Total, GF	0.020	0.0208	104.0	(85.00 - 115.00)	9.2

QC Batch #59782 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP/MS	100	101	101.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	95.1	95.1	(85.00 - 115.00)	6.0
MBLK	Chromium, Total, ICAP/MS	ND		0.0		

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(continued)

MS	Chromium, Total, ICAP/MS	100	100.	100.0	(70.00 - 130.00)	
MSD	Chromium, Total, ICAP/MS	100	98.1	98.1	(70.00 - 130.00)	1.9

QC Batch #59783 Iron, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Iron, Total, ICAP/MS	500	546	109.2	(85.00 - 115.00)	
MBLK	Iron, Total, ICAP/MS	ND		0.0		
MS	Iron, Total, ICAP/MS	500	482.	96.0	(70.00 - 130.00)	
MSD	Iron, Total, ICAP/MS	500	448.	89.6	(70.00 - 130.00)	7.3

QC Batch #59785 Lead, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Lead, Total, ICAP/MS	20	19.5	97.5	(85.00 - 115.00)	
LCS2	Lead, Total, ICAP/MS	20	19.5	97.5	(85.00 - 115.00)	0.00
MBLK	Lead, Total, ICAP/MS	ND		0.0		
MS	Lead, Total, ICAP/MS	20	19.6	98.0	(70.00 - 130.00)	
MSD	Lead, Total, ICAP/MS	20	19.6	98.0	(70.00 - 130.00)	0.00

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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

FEB 26 1997

ADE*

Report#: 32165
JPL

MONTGOMERY WATSON LABORATORIES

February 28, 1997

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

Attention: Mark Cutler

Re: Report # 32165 (MW-971-72, 71, 41, 40,)

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):
All volatile samples were analyzed within holding times with acceptable surrogate and IS recoveries. Iron was recovered high in one LCS, but the second LCS was acceptable.

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

Method blanks with compounds detected:
Acetone was detected as a TIC and in the blank. It is possibly a false positive.

Other Comments:
Acetone was detected as a TIC at low levels. Chloroform was detected in one of the samples.

Sincerely,

Andrew Eaton

Andrew Eaton, PhD
Laboratory Director

cc: Judy Novelly (JPL)

Pasadena Division
555 East Walnut Street
Pasadena, California 91101
Tel: 818 568 6400
Fax: 818 568 6324

Madison Division
1 Science Court
Madison, Wisconsin 53711
Tel: 608 231 4747
Fax: 608 231 4777

Quality Environmental Analysis

MONTGOMERY WATSON LABORATORIES

555 East Walnut Street
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Laboratory Report #32165

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

Samples Received
06-feb-1997 18:22:11

MW-971-72 (970206181) Sampled on 02/06/97

Regulated VOCs plus Lists 1&3

Anal	Method	Analyte	Result	Units	MDL
02/08/97	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0
02/08/97	(ML/EPA 524.2)	2-Chloroethylvinylether	ND	ug/l	1.0
02/08/97	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0
02/08/97	(EPA/SM 524.2)	Benzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50

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Laboratory
Report
#32165

Foster Wheeler Environmental, Inc
(continued)

Anal	Method	Analyte	Result	Units	MDL
02/08/97	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Fluorotrichloromethane(Freon1)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50
02/08/97	(ML524.2/SW8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/l	5.0
02/08/97	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30
	(EPA 524.2)	Acetone	2.5B	ug/l	
	(Surrogate)	1,2-Dichloroethane-d4	87	% Rec	
	(Surrogate)	4-Bromofluorobenzene	87	% Rec	

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Foster Wheeler Environmental, Inc
(continued)

Anal	Method	Analyte	Result	Units	MDL
	(Surrogate)	Toluene-d8	87	% Rec	
MW-971-71 (970206182) Sampled on 02/06/97					
02/18/97	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005
02/17/97	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10
02/07/97	(ML/SW 7196)	Hexavalent chromium	ND	mg/l	0.005
02/17/97	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0
		Regulated VOCs plus Lists 1&3			
02/08/97	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0
02/08/97	(ML/EPA 524.2)	2-Chloroethylvinylether	ND	ug/l	1.0
02/08/97	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0
02/08/97	(EPA/SM 524.2)	Benzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50

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Foster Wheeler Environmental, Inc
(continued)

Anal	Method	Analyte	Result	Units	MDL
02/08/97	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Fluorotrichloromethane(Freon1)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50
02/08/97	(ML524.2/SW8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/l	5.0
02/08/97	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30
	(EPA 524.2)	None Detected	ND		

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Foster Wheeler Environmental, Inc
(continued)

Anal	Method	Analyte	Result	Units	MDL
	(Surrogate)	1,2-Dichloroethane-d4	98	% Rec	
	(Surrogate)	4-Bromofluorobenzene	82	% Rec	
	(Surrogate)	Toluene-d8	87	% Rec	
MW-971-41 (970206183) Sampled on 02/06/97					
02/11/97	(ML/S2320B)	Alkalinity	135	mg/l	2.0
02/25/97	(ML/SM1040)	Anion Sum	3.52	meq/l	0.0010
02/18/97	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005
02/17/97	(ML/S3111B)	Calcium, Flame AA	43	mg/l	1.0
02/21/97	(ML/SM1040)	Cation Sum	3.92	meq/l	0.0010
02/07/97	(ML/EPA 300)	Chloride	8.2	mg/l	1.0
02/16/97	(ML/S2320-B)	Carbonate as CO3, Calculated	0.672	mg/l	0.0010
[illegible]/17/97	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10
[illegible]/07/97	(ML/SW 7196)	Hexavalent chromium	ND	mg/l	0.005
02/10/97	(ML/S2510B)	Specific Conductance	340	umho/cm	4.0
02/17/97	(EPA/ML 200.8)	Iron, Total, ICAP/MS	1200	ug/l	50
02/16/97	(ML/S2320B)	Bicarbonate as HCO3,calculated	164	mg/l	0.0010
02/17/97	(ML/S3111B)	Potassium, Flame AA	2.1	mg/l	1.0
02/17/97	(ML/S3111B)	Magnesium, Flame AA	14	mg/l	1.0
02/17/97	(ML/S3111B)	Sodium, Flame AA	13	mg/l	1.0
02/07/97	(ML/EPA 300.0)	Nitrate-N by IC	0.7	mg/l	0.10
02/17/97	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0
02/10/97	(ML/S4500H-B)	Lab pH	7.8	Units	0.0010
02/07/97	(ML/EPA 300)	Sulfate	26	mg/l	2.0
02/19/97	(ML/EPA 365.2)	Total phosphorus-P	ND	mg/l	0.050
02/07/97	(ML/S2540C)	Total Dissolved Solids	220	mg/l	10
		Regulated VOCs plus Lists 1&3			
02/08/97	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50

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Anal	Method	Analyte	Result	Units	MDL
02/08/97	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0
02/08/97	(ML/EPA 524.2)	2-Chloroethylvinylether	ND	ug/l	1.0
02/08/97	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0
02/08/97	(EPA/SM 524.2)	Benzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Chloroform (Trichloromethane)	5.2	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Fluorotrichloromethane(Freon1)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50

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Anal	Method	Analyte	Result	Units	MDL
02/08/97	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50
02/08/97	(ML524.2/SW8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/l	5.0
02/08/97	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30
	(EPA 524.2)	None Detected	ND		
	(Surrogate)	1,2-Dichloroethane-d4	104	% Rec	
	(Surrogate)	4-Bromofluorobenzene	86	% Rec	
	(Surrogate)	Toluene-d8	88	% Rec	

MW-971-40 (970206184) Sampled on 02/06/97

02/11/97	(ML/S2320B)	Alkalinity	125	mg/l	2.0
02/25/97	(ML/SM1040)	Anion Sum	3.28	meq/l	0.0010
02/18/97	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005
02/17/97	(ML/S3111B)	Calcium, Flame AA	40	mg/l	1.0
02/21/97	(ML/SM1040)	Cation Sum	3.60	meq/l	0.0010
02/07/97	(ML/EPA 300)	Chloride	6.1	mg/l	1.0
02/16/97	(ML/S2320-B)	Carbonate as CO3, Calculated	0.197	mg/l	0.0010
02/17/97	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10
02/07/97	(ML/SW 7196)	Hexavalent chromium	ND	mg/l	0.005
02/10/97	(ML/S2510B)	Specific Conductance	320	umho/cm	4.0
02/17/97	(EPA/ML 200.8)	Iron, Total, ICAP/MS	77	ug/l	50
02/16/97	(ML/S2320B)	Bicarbonate as HCO3,calculated	152	mg/l	0.0010

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Anal	Method	Analyte	Result	Units	MDL
02/17/97	(ML/S3111B)	Potassium, Flame AA	1.9	mg/l	1.0
02/17/97	(ML/S3111B)	Magnesium, Flame AA	12	mg/l	1.0
02/17/97	(ML/S3111B)	Sodium, Flame AA	13	mg/l	1.0
02/07/97	(ML/EPA 300.0)	Nitrate-N by IC	0.6	mg/l	0.10
02/17/97	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0
02/10/97	(ML/S4500H-B)	Lab pH	7.3	Units	0.0010
02/07/97	(ML/EPA 300)	Sulfate	27	mg/l	2.0
02/19/97	(ML/EPA 365.2)	Total phosphorus-P	ND	mg/l	0.050
02/11/97	(ML/S2540C)	Total Dissolved Solids	190	mg/l	10
		Regulated VOCs plus Lists 1&3			
02/08/97	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0
02/08/97	(ML/EPA 524.2)	2-Chloroethylvinylether	ND	ug/l	1.0
02/08/97	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0
02/08/97	(EPA/SM 524.2)	Benzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50

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Anal	Method	Analyte	Result	Units	MDL
02/08/97	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Fluorotrichloromethane(Freon1)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50
02/08/97	(ML524.2/SW8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/l	5.0
02/08/97	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50

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Laboratory
Report
#32165

Foster Wheeler Environmental, Inc
(continued)

Anal	Method	Analyte	Result	Units	MDL
02/08/97	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30
	(EPA 524.2)	None Detected	ND		
	(Surrogate)	1,2-Dichloroethane-d4	100	% Rec	
	(Surrogate)	4-Bromofluorobenzene	85	% Rec	
	(Surrogate)	Toluene-d8	87	% Rec	

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Comments
#32165

Group Comments

(524) B indicates that the analyte is also detected in the method blank.
(Fe-MS) The LCS2 recovery for Iron was high bias and outside the internal QC limit, due to an isolated incident. Only the LCS1 recovery is reported for Iron per QAPP.

(970206184)
T-P
in this analysis, two ms' on two separate samples instead of one ms/msd.

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Laboratory QC Report #32165

Foster Wheeler Environmental, Inc

QC Batch #59473 Chloride

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Chloride	25	24.7	98.8	(90.00 - 110.00)	
LCS2	Chloride	25	24.6	98.4	(90.00 - 110.00)	0.41
MBLK	Chloride	ND				
MS	Chloride	25	26.2	104.8	(80.00 - 120.00)	
MSD	Chloride	25	26.2	104.8	(80.00 - 120.00)	0.00

QC Batch #59475 Sulfate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Sulfate	50	48.8	97.6	(90.00 - 110.00)	
LCS2	Sulfate	50	48.8	97.6	(90.00 - 110.00)	0.00
MBLK	Sulfate	ND				
MS	Sulfate	50	52.3	104.6	(70.00 - 130.00)	
MSD	Sulfate	50	52.3	104.6	(70.00 - 130.00)	0.00

QC Batch #59476 Nitrate-N by IC

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Nitrate-N by IC	2.5	2.53	101.2	(90.00 - 110.00)	
LCS2	Nitrate-N by IC	2.5	2.52	100.8	(90.00 - 110.00)	0.40
MBLK	Nitrate-N by IC	ND				
MS	Nitrate-N by IC	2.5	2.52	100.8	(80.00 - 120.00)	
MSD	Nitrate-N by IC	2.5	2.52	100.8	(80.00 - 120.00)	0.00

QC Batch #59481 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	3.93	98.2	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	3.77	94.2	(70.00 - 130.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	3.37	84.2	(70.00 - 130.00)	

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

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(continued)

MBLK	1,1,2-Trichloroethane	ND			
LCS1	1,1-Dichloroethane	4	4.19	104.8	(70.00 - 130.00)
MBLK	1,1-Dichloroethane	ND			
LCS1	1,1-Dichloroethylene	4	4.60	115.0	(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	3.54	88.5	(70.00 - 130.00)
MBLK	1,2,4-Trichlorobenzene	ND			
MBLK	1,2,4-Trimethylbenzene	ND			
LCS1	1,2-Dichloroethane	4	4.08	102.0	(70.00 - 130.00)
MBLK	1,2-Dichloroethane	ND			
LCS1	1,2-Dichloropropane	4	3.63	90.8	(70.00 - 130.00)
MBLK	1,2-Dichloropropane	ND			
MBLK	1,3,5-Trimethylbenzene	ND			
LCS1	1,3-Dichloropropane	8	6.86	85.8	(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	4.35	108.7	(70.00 - 130.00)
MBLK	Benzene	ND			
MBLK	Bromobenzene	ND			
MBLK	Bromochloromethane	ND			
LCS1	Bromodichloromethane	4	3.63	90.8	(70.00 - 130.00)
MBLK	Bromodichloromethane	ND			
LCS1	Bromoform	4	3.27	81.8	(70.00 - 130.00)
MBLK	Bromoform	ND			
MBLK	Bromomethane (Methyl Bromide)	ND			
LCS1	Carbon Tetrachloride	4	3.88	97.0	(70.00 - 130.00)
MBLK	Carbon Tetrachloride	ND			
LCS1	Chlorobenzene	4	3.70	92.5	(70.00 - 130.00)
MBLK	Chlorobenzene	ND			
LCS1	Chlorodibromomethane	4	3.28	82.0	(70.00 - 130.00)
MBLK	Chlorodibromomethane	ND			
MBLK	Chloroethane	ND			

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(continued)

LCS1	Chloroform (Trichloromethane)	4	3.71	92.8	(70.00 - 130.00)
MBLK	Chloroform (Trichloromethane)	ND			
MBLK	Chloromethane(Methyl Chloride)	ND			
MBLK	Dibromomethane	ND			
MBLK	Dichlorodifluoromethane	ND			
LCS1	Dichloromethane	4	4.13	103.2	(70.00 - 130.00)
MBLK	Dichloromethane	ND			
LCS1	Ethyl benzene	4	3.61	90.2	(70.00 - 130.00)
MBLK	Ethyl benzene	ND			
LCS1	Fluorotrichloromethane(Freon1)	2	2.17	108.5	(70.00 - 130.00)
MBLK	Fluorotrichloromethane(Freon1)	ND			
MBLK	Hexachlorobutadiene	ND			
MBLK	Isopropylbenzene	ND			
LCS1	Methyl Tert-butyl ether (MTBE)	4	3.68	92.0	(70.00 - 130.00)
MBLK	Methyl Tert-butyl ether (MTBE)	ND			
MBLK	Naphthalene	ND			
LCS1	Styrene	4	3.50	87.5	(70.00 - 130.00)
MBLK	Styrene	ND			
LCS1	Tetrachloroethylene (PCE)	4	4.70	117.5	(70.00 - 130.00)
MBLK	Tetrachloroethylene (PCE)	ND			
LCS1	Toluene	4	4.15	103.8	(70.00 - 130.00)
MBLK	Toluene	ND			
LCS1	Trichloroethylene (TCE)	4	4.19	104.8	(70.00 - 130.00)
MBLK	Trichloroethylene (TCE)	ND			
LCS1	Trichlorotrifluoroethane(Freon	4	4.00	100.0	(70.00 - 130.00)
MBLK	Trichlorotrifluoroethane(Freon	ND			
LCS1	Vinyl chloride (VC)	2	2.16	108.0	(70.00 - 130.00)
MBLK	Vinyl chloride (VC)	ND			
LCS1	cis-1,2-Dichloroethylene	4	4.06	101.5	(70.00 - 130.00)
MBLK	cis-1,2-Dichloroethylene	ND			
MBLK	cis-1,3-Dichloropropene	ND			
LCS1	m,p-Xylenes	8	7.61	95.1	(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	3.80	95.0	(70.00 - 130.00)

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MBLK	o-Dichlorobenzene (1,2-DCB)	ND			
LCS1	o-Xylene	4	3.58	89.5	(70.00 - 130.00)
MBLK	o-Xylene	ND			
MBLK	p-Chlorotoluene	ND			
LCS1	p-Dichlorobenzene (1,4-DCB)	4	3.74	93.5	(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	4.48	112.0	(70.00 - 130.00)
MBLK	trans-1,2-Dichloroethylene	ND			
MBLK	trans-1,3-Dichloropropene	ND			

QC Batch #59510 Total Dissolved Solids

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Total Dissolved Solids	175	176	100.6	(85.00 - 115.00)	
LCS2	Total Dissolved Solids	175	174	99.4	(85.00 - 115.00)	1.1
MBLK	Total Dissolved Solids	ND				

QC Batch #59519 Hexavalent chromium

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Hexavalent chromium	0.050	0.0464	92.8	(78.00 - 118.00)	
LCS2	Hexavalent chromium	0.050	0.0464	92.8	(78.00 - 118.00)	0.00
MBLK	Hexavalent chromium	ND				
MS	Hexavalent chromium	0.050	0.0489	97.8	(80.00 - 120.00)	
MSD	Hexavalent chromium	0.050	0.0489	97.8	(80.00 - 120.00)	0.00

QC Batch #59550 Alkalinity

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Alkalinity	96.2	95.8	99.6	(90.00 - 110.00)	
LCS2	Alkalinity	96.2	96.1	99.9	(90.00 - 110.00)	0.31
MBLK	Alkalinity	ND				

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

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MS	Alkalinity	96.2	94.7	98.4	(80.00 - 120.00)	
MSD	Alkalinity	96.2	98.1	102.0	(80.00 - 120.00)	3.5

QC Batch #59607 Total Dissolved Solids

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Total Dissolved Solids	175	176	100.6	(85.00 - 115.00)	
LCS2	Total Dissolved Solids	175	174	99.4	(85.00 - 115.00)	1.1
MBLK	Total Dissolved Solids	ND				

QC Batch #59751 Potassium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Potassium, Flame AA	20	18.5	92.5	(80.00 - 120.00)	
LCS2	Potassium, Flame AA	20	18.5	92.5	(80.00 - 120.00)	0.00
MBLK	Potassium, Flame AA	ND				
MS	Potassium, Flame AA	20	18.9	94.5	(80.00 - 120.00)	
MSD	Potassium, Flame AA	20	18.8	94.0	(80.00 - 120.00)	0.53

QC Batch #59752 Sodium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Sodium, Flame AA	50	50.2	100.4	(90.00 - 110.00)	
LCS2	Sodium, Flame AA	50	49.6	99.2	(90.00 - 110.00)	1.2
MBLK	Sodium, Flame AA	ND				
MS	Sodium, Flame AA	50	50.1	100.2	(80.00 - 120.00)	
MSD	Sodium, Flame AA	50	49.9	99.8	(80.00 - 120.00)	0.40

QC Batch #59760 Magnesium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Magnesium, Flame AA	20	19.1	95.5	(90.00 - 110.00)	
LCS2	Magnesium, Flame AA	20	19.4	97.0	(90.00 - 110.00)	1.6
MBLK	Magnesium, Flame AA	ND				

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MS	Magnesium, Flame AA	20	19.7	98.5	(80.00 - 120.00)	
MSD	Magnesium, Flame AA	20	20.2	101.0	(80.00 - 120.00)	2.5

QC Batch #59761 Calcium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Calcium, Flame AA	50	48.9	97.8	(90.00 - 110.00)	
LCS2	Calcium, Flame AA	50	50.3	100.6	(90.00 - 110.00)	2.8
MBLK	Calcium, Flame AA	ND				
MS	Calcium, Flame AA	50	47.5	95.0	(80.00 - 120.00)	
MSD	Calcium, Flame AA	50	49.1	98.2	(80.00 - 120.00)	3.3

QC Batch #59775 Arsenic, Total, GF

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Arsenic, Total, GF	0.020	0.0189	94.5	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.0205	102.5	(85.00 - 115.00)	8.1
MBLK	Arsenic, Total, GF	ND				
MS	Arsenic, Total, GF	0.020	0.0228	114.0	(85.00 - 115.00)	
MSD	Arsenic, Total, GF	0.020	0.0208	104.0	(85.00 - 115.00)	9.2

QC Batch #59782 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP/MS	100	101	101.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	95.1	95.1	(85.00 - 115.00)	6.0
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	98.1	98.1	(70.00 - 130.00)	1.9

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

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QC Batch #59783 Iron, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Iron, Total, ICAP/MS	500	546	109.2	(85.00 - 115.00)	
MBLK	Iron, Total, ICAP/MS	ND		0.0		
MS	Iron, Total, ICAP/MS	500	482.	96.0	(70.00 - 130.00)	
MSD	Iron, Total, ICAP/MS	500	448.	89.6	(70.00 - 130.00)	7.3

QC Batch #59785 Lead, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Lead, Total, ICAP/MS	20	19.5	97.5	(85.00 - 115.00)	
LCS2	Lead, Total, ICAP/MS	20	19.5	97.5	(85.00 - 115.00)	0.00
MBLK	Lead, Total, ICAP/MS	ND		0.0		
MS	Lead, Total, ICAP/MS	20	19.6	98.0	(70.00 - 130.00)	
MSD	Lead, Total, ICAP/MS	20	19.6	98.0	(70.00 - 130.00)	0.00

QC Batch #59883 Total phosphorus-P

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Total phosphorus-P	0.5	.414	82.8	(80.00 - 120.00)	
LCS2	Total phosphorus-P	0.5	.421	84.2	(80.00 - 120.00)	1.7
MBLK	Total phosphorus-P	ND				
MS	Total phosphorus-P	0.4	.349	87.2	(70.00 - 130.00)	
MSD	Total phosphorus-P	0.4	.323	80.8	(70.00 - 130.00)	7.7

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

Report Summary of positive results, PR32165

			Result	MDL	UNITS
Analyzed	970206181	MW-971-72			
02/08/97	Data Entry		02/11/97		--
Analyzed	970206182	MW-971-71			
02/08/97	Data Entry		02/11/97		--
Analyzed	970206183	MW-971-41			
02/08/97	Chloroform (Trichloromethane)		5.2	.500	UGL
02/08/97	Data Entry		02/11/97		--
02/11/97	Alkalinity		135	2.000	MGL
02/25/97	Anion Sum		3.52	.001	MEQL
02/16/97	Bicarbonate as HCO3,calculated		164	.001	MGL
02/17/97	Calcium, Flame AA		43	1.000	MGL
02/16/97	Carbonate as CO3, Calculated		0.672	.001	MGL
02/21/97	Cation Sum		3.92	.001	MEQL
02/07/97	Chloride		8.2	1.000	MGL
02/17/97	Iron, Total, ICAP/MS		1200	50.000	UGL
02/10/97	Lab pH		7.8	.001	UNIT
02/17/97	Lead, Total, ICAP/MS		0.87	.500	UGL
02/17/97	Magnesium, Flame AA		14	1.000	MGL
02/07/97	Nitrate-N by IC		0.7	.100	MGL
02/17/97	Potassium, Flame AA		2.1	1.000	MGL
02/17/97	Sodium, Flame AA		13	1.000	MGL
02/10/97	Specific Conductance		340	4.000	UMHO
02/07/97	Sulfate		26	2.000	MGL
02/07/97	Total Dissolved Solids		220	10.000	MGL
Analyzed	970206184	MW-971-40			
02/08/97	Data Entry		02/11/97		--
02/11/97	Alkalinity		125	2.000	MGL
02/25/97	Anion Sum		3.28	.001	MEQL
02/16/97	Bicarbonate as HCO3,calculated		152	.001	MGL
02/17/97	Calcium, Flame AA		40	1.000	MGL
02/16/97	Carbonate as CO3, Calculated		0.197	.001	MGL
02/21/97	Cation Sum		3.60	.001	MEQL
02/07/97	Chloride		6.1	1.000	MGL
02/17/97	Iron, Total, ICAP/MS		77	50.000	UGL
02/10/97	Lab pH		7.3	.001	UNIT
02/17/97	Magnesium, Flame AA		12	1.000	MGL
02/07/97	Nitrate-N by IC		0.6	.100	MGL
02/17/97	Potassium, Flame AA		1.9	1.000	MGL
02/17/97	Sodium, Flame AA		13	1.000	MGL
02/10/97	Specific Conductance		320	4.000	UMHO
02/07/97	Sulfate		27	2.000	MGL
02/11/97	Total Dissolved Solids		190	10.000	MGL
02/19/97	Total phosphorus-P		\D	.050	MGL

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Laboratory Report

for

Foster Wheeler Environmental, Inc
611 Anton Boulevard

Suite 800

Costa Mesa , CA 92626

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

MONTGOMERY WATSON LABS.
SUBMITTED ON

FEB 26 1997

ADE*

Report#: 32186
JPL

MONTGOMERY WATSON LABORATORIES

February 28, 1997

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

Attention: Mark Cutler

Re: Report # 32186 (MW-971-74, 73, 42, 59, 58)

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):
All volatile samples were analyzed within holding times with acceptable surrogate and IS recoveries. Iron was recovered high in one LCS, but the second LCS was acceptable. The TCE value on one sample was above the calibration range, but insufficient sample remained to re-analyze so results are reported with an E for estimated. Sample-73 had a low surrogate recovery for volatiles for 1,2-dichloroethane-d4. The sample was re-analyzed but internal standards 2 and 3 failed low on the rerun so the initial run was used. No compounds were detected in that sample.

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

Method blanks with compounds detected:
Acetone was detected as a TIC and in the blank. It is possibly a false positive.

Other Comments:
Acetone was detected as a TIC at low levels. Volatiles were detected in several of the samples, including several TCE and carbon tetrachloride hits over the MCL. Please note that lead was detected in one sample above the CRDL.

Sincerely,

Andrew Eaton, PhD
Laboratory Director

cc: Judy Novelly (JPL)

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Fax: 818 568 6324

Madison Division
1 Science Court
Madison, Wisconsin 53711
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Quality Environmental Analysis

QUALITY INVESTIGATION REPORT

QIR No. MS-97-002

Analysis Date: 2/8/97
Analysis: 524
Extraction Date: NA
Matrix: 1
Analyst: COL
Instrument ID: GCMSE, GCMSD

SAMPLES IMPACTED

Lab #	Client ID	Client Name	Lab #	Client ID	Client Name
970204102	MW-971-67	FOSTER Wheeler	970207092	MW-971-73	FOSTER Wheeler

Brief Description: (include reason for non-compliance)

① 1,2-DCA-d4 (surrogate) failed low. (73%) and 76% limits are 80-120.
Internal Standard #2 recovered < 70%

② when sample was rerun on 2/11/97, IS #2 & IS #3 failed low. (HT up on 2/11/97)

Action Taken: see ② above.
No more samples to rerun.

Impact on Data Quality: minimal. Sample is ND. All other QC are acceptable

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

Other:

Annotation: Rxt failed IS

Client Contact: None required

Extraction:		Date:	
Analyst:	Cecilia Lei	Date:	2-18-97
Group Leader:	Cecilia Lei	Date:	2/19/97
QA Coordinator:	[illegible]	Date:	2/21/97
Project Manager:	A. Eaton	Date:	2/21/97

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Laboratory Report #32186

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

Samples Received
07-feb-1997 16:39:32

MW-971-74 (970207089) Sampled on 02/07/97

Regulated VOCs plus Lists 1&3

Anal	Method	Analyte	Result	Units	MDL
02/08/97	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0
02/08/97	(ML/EPA 524.2)	2-Chloroethylvinylether	ND	ug/l	1.0
02/08/97	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0
02/08/97	(EPA/SM 524.2)	Benzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50

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Anal	Method	Analyte	Result	Units	MDL
02/08/97	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Fluorotrichloromethane(Freon1)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50
02/08/97	(ML524.2/SW8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/l	5.0
02/08/97	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30
	(EPA 524.2)	None Detected	ND		
	(Surrogate)	1,2-Dichloroethane-d4	95	% Rec	
	(Surrogate)	4-Bromofluorobenzene	85	% Rec	

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Anal	Method	Analyte	Result	Units	MDL
	(Surrogate)	Toluene-d8	90	% Rec	
MW-971-73 (970207090)		**Sampled on 02/07/97**			
02/18/97	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005
02/17/97	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10
02/07/97	(ML/SW 7196)	Hexavalent chromium	ND	mg/l	0.005
02/17/97	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0
		Regulated VOCs plus Lists 1&3			
02/08/97	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0
02/08/97	(ML/EPA 524.2)	2-Chloroethylvinylether	ND	ug/l	1.0
02/08/97	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0
02/08/97	(EPA/SM 524.2)	Benzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50

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Anal	Method	Analyte	Result	Units	MDL
02/08/97	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Fluorotrichloromethane(Freon1)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50
02/08/97	(ML524.2/SW8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/l	5.0
02/08/97	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30
	(EPA 524.2)	Acetone	2.5B	ug/l	

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Anal	Method	Analyte	Result	Units	MDL
	(Surrogate)	1,2-Dichloroethane-d4	78	% Rec	
	(Surrogate)	4-Bromofluorobenzene	85	% Rec	
	(Surrogate)	Toluene-d8	95	% Rec	
MW-971-42 (970207091) Sampled on 02/07/97					
02/11/97	(ML/S2320B)	Alkalinity	155	mg/l	2.0
02/25/97	(ML/SM1040)	Anion Sum	4.27	meq/l	0.0010
02/18/97	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005
02/17/97	(ML/S3111B)	Calcium, Flame AA	43	mg/l	1.0
02/21/97	(ML/SM1040)	Cation Sum	4.55	meq/l	0.0010
02/07/97	(ML/EPA 300)	Chloride	14	mg/l	1.0
02/16/97	(ML/S2320-B)	Carbonate as CO3, Calculated	0.775	mg/l	0.0010
02/17/97	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10
02/07/97	(ML/SW 7196)	Hexavalent chromium	ND	mg/l	0.005
02/10/97	(ML/S2510B)	Specific Conductance	405	umho/cm	4.0
02/17/97	(EPA/ML 200.8)	Iron, Total, ICAP/MS	430	ug/l	50
02/16/97	(ML/S2320B)	Bicarbonate as HCO3,calculated	189	mg/l	0.0010
02/17/97	(ML/S3111B)	Potassium, Flame AA	1.9	mg/l	1.0
02/17/97	(ML/S3111B)	Magnesium, Flame AA	18	mg/l	1.0
02/17/97	(ML/S3111B)	Sodium, Flame AA	20	mg/l	1.0
02/07/97	(ML/EPA 300.0)	Nitrate-N by IC	1.8	mg/l	0.10
02/17/97	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0
02/10/97	(ML/S4500H-B)	Lab pH	7.8	Units	0.0010
02/07/97	(ML/EPA 300)	Sulfate	31	mg/l	2.0
02/19/97	(ML/EPA 365.2)	Total phosphorus-P	ND	mg/l	0.050
02/11/97	(ML/S2540C)	Total Dissolved Solids	250	mg/l	10
		Regulated VOCs plus Lists 1&3			
02/08/97	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50

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Foster Wheeler Environmental, Inc
(continued)

Anal	Method	Analyte	Result	Units	MDL
02/08/97	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0
02/08/97	(ML/EPA 524.2)	2-Chloroethylvinylether	ND	ug/l	1.0
02/08/97	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0
02/08/97	(EPA/SM 524.2)	Benzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Carbon Tetrachloride	5.1	ug/l	0.50
02/08/97	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Chloroform (Trichloromethane)	5.6	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Bromodichloromethane	0.6	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Fluorotrichloromethane(Freon1)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50

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(continued)

Anal	Method	Analyte	Result	Units	MDL
02/08/97	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50
02/08/97	(ML524.2/SW8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/l	5.0
02/08/97	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	1.1	ug/l	0.50
02/08/97	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Trichloroethylene (TCE)	23 E	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30
	(EPA 524.2)	None detected	ND		
	(Surrogate)	1,2-Dichloroethane-d4	87	% Rec	
	(Surrogate)	4-Bromofluorobenzene	85	% Rec	
	(Surrogate)	Toluene-d8	86	% Rec	

MW-971-59 (970207092) Sampled on 02/07/97

02/11/97	(ML/S2320B)	Alkalinity	155	mg/l	2.0
02/25/97	(ML/SM1040)	Anion Sum	3.79	meq/l	0.0010
02/18/97	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005
02/17/97	(ML/S3111B)	Calcium, Flame AA	7.4	mg/l	1.0
02/21/97	(ML/SM1040)	Cation Sum	4.02	meq/l	0.0010
02/07/97	(ML/EPA 300)	Chloride	8.2	mg/l	1.0
02/16/97	(ML/S2320-B)	Carbonate as CO3, Calculated	18.6	mg/l	0.0010
02/17/97	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10
02/07/97	(ML/SW 7196)	Hexavalent chromium	ND	mg/l	0.005
02/10/97	(ML/S2510B)	Specific Conductance	370	umho/cm	4.0
02/17/97	(EPA/ML 200.8)	Iron, Total, ICAP/MS	140	ug/l	50
02/16/97	(ML/S2320B)	Bicarbonate as HCO3,calculated	181	mg/l	0.0010

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Anal	Method	Analyte	Result	Units	MDL
02/17/97	(ML/S3111B)	Potassium, Flame AA	1.4	mg/l	1.0
02/17/97	(ML/S3111B)	Magnesium, Flame AA	1.6	mg/l	1.0
02/17/97	(ML/S3111B)	Sodium, Flame AA	80	mg/l	1.0
02/07/97	(ML/EPA 300.0)	Nitrate-N by IC	ND	mg/l	0.10
02/17/97	(EPA/ML 200.8)	Lead, Total, ICAP/MS	3.8	ug/l	2.0
02/10/97	(ML/S4500H-B)	Lab pH	9.2	Units	0.0010
02/07/97	(ML/EPA 300)	Sulfate	22	mg/l	2.0
02/19/97	(ML/EPA 365.2)	Total phosphorus-P	ND	mg/l	0.050
02/11/97	(ML/S2540C)	Total Dissolved Solids	230	mg/l	10
		Regulated VOCs plus Lists 1&3			
02/08/97	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0
02/08/97	(ML/EPA 524.2)	2-Chloroethylvinylether	ND	ug/l	1.0
02/08/97	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0
02/08/97	(EPA/SM 524.2)	Benzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50

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02/08/97	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Fluorotrichloromethane(Freon1)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50
02/08/97	(ML524.2/SW8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/l	5.0
02/08/97	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50

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Anal	Method	Analyte	Result	Units	MDL
02/08/97	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30
	(EPA 524.2)	None Detected	ND		
	(Surrogate)	1,2-Dichloroethane-d4	93	% Rec	
	(Surrogate)	4-Bromofluorobenzene	82	% Rec	
	(Surrogate)	Toluene-d8	91	% Rec	
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02/11/97	(ML/S2320B)	Alkalinity	140	mg/l	2.0
02/25/97	(ML/SM1040)	Anion Sum	3.50	meq/l	0.0010
02/18/97	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005
02/17/97	(ML/S3111B)	Calcium, Flame AA	8.6	mg/l	1.0
02/21/97	(ML/SM1040)	Cation Sum	3.63	meq/l	0.0010
02/07/97	(ML/EPA 300)	Chloride	10	mg/l	1.0
02/16/97	(ML/S2320-B)	Carbonate as CO3, Calculated	8.62	mg/l	0.0010
02/17/97	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10
02/07/97	(ML/SW 7196)	Hexavalent chromium	ND	mg/l	0.005
02/10/97	(ML/S2510B)	Specific Conductance	340	umho/cm	4.0
02/17/97	(EPA/ML 200.8)	Iron, Total, ICAP/MS	210	ug/l	50
02/16/97	(ML/S2320B)	Bicarbonate as HCO3,calculated	167	mg/l	0.0010
02/17/97	(ML/S3111B)	Potassium, Flame AA	1.0	mg/l	1.0
02/17/97	(ML/S3111B)	Magnesium, Flame AA	2.1	mg/l	1.0
02/17/97	(ML/S3111B)	Sodium, Flame AA	69	mg/l	1.0
02/07/97	(ML/EPA 300.0)	Nitrate-N by IC	ND	mg/l	0.10
02/17/97	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0
02/10/97	(ML/S4500H-B)	Lab pH	8.9	Units	0.0010
02/07/97	(ML/EPA 300)	Sulfate	20	mg/l	2.0
02/19/97	(ML/EPA 365.2)	Total phosphorus-P	ND	mg/l	0.050
02/11/97	(ML/S2540C)	Total Dissolved Solids	200	mg/l	10
		Regulated VOCs plus Lists 1&3			
02/08/97	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50

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Anal	Method	Analyte	Result	Units	MDL
02/08/97	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0
02/08/97	(ML/EPA 524.2)	2-Chloroethylvinylether	ND	ug/l	1.0
02/08/97	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0
02/08/97	(EPA/SM 524.2)	Benzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Fluorotrichloromethane(Freon1)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50

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Anal	Method	Analyte	Result	Units	MDL
02/08/97	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50
02/08/97	(ML524.2/SW8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/l	5.0
02/08/97	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50
02/08/97	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30
	(EPA 524.2)	None Detected	ND		
	(Surrogate)	1,2-Dichloroethane-d4	98	% Rec	
	(Surrogate)	4-Bromofluorobenzene	84	% Rec	
	(Surrogate)	Toluene-d8	96	% Rec	

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Group Comments

(524) B indicates that the analyte is also detected in the method blank. E denotes that the result is above the calibration curve of the instrument.
(Fe-MS) The LCS2 recovery for Iron was high bias and outside the internal QC limit, due to an isolated incident. Only the LCS1 recovery for Iron is reported per QAPP.

(970207090)
@VOASDWA
Low surrogate recovery. Sample was reanalyzed but the inter nal standards #2 and #3 failed low in the rerun.
QIR-MS-97-002.

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QC Batch #59473 Chloride

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Chloride	25	24.7	98.8	(90.00 - 110.00)	
LCS2	Chloride	25	24.6	98.4	(90.00 - 110.00)	0.41
MBLK	Chloride	ND				
MS	Chloride	25	26.2	104.8	(80.00 - 120.00)	
MSD	Chloride	25	26.2	104.8	(80.00 - 120.00)	0.00

QC Batch #59475 Sulfate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Sulfate	50	48.8	97.6	(90.00 - 110.00)	
LCS2	Sulfate	50	48.8	97.6	(90.00 - 110.00)	0.00
MBLK	Sulfate	ND				
MS	Sulfate	50	52.3	104.6	(70.00 - 130.00)	
MSD	Sulfate	50	52.3	104.6	(70.00 - 130.00)	0.00

QC Batch #59476 Nitrate-N by IC

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Nitrate-N by IC	2.5	2.53	101.2	(90.00 - 110.00)	
LCS2	Nitrate-N by IC	2.5	2.52	100.8	(90.00 - 110.00)	0.40
MBLK	Nitrate-N by IC	ND				
MS	Nitrate-N by IC	2.5	2.52	100.8	(80.00 - 120.00)	
MSD	Nitrate-N by IC	2.5	2.52	100.8	(80.00 - 120.00)	0.00

QC Batch #59481 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	3.93	98.2	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	3.77	94.2	(70.00 - 130.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	3.37	84.2	(70.00 - 130.00)	

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

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Foster Wheeler Environmental, Inc
(continued)

MBLK	1,1,2-Trichloroethane	ND			
LCS1	1,1-Dichloroethane	4	4.19	104.8	(70.00 - 130.00)
MBLK	1,1-Dichloroethane	ND			
LCS1	1,1-Dichloroethylene	4	4.60	115.0	(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	3.54	88.5	(70.00 - 130.00)
MBLK	1,2,4-Trichlorobenzene	ND			
MBLK	1,2,4-Trimethylbenzene	ND			
LCS1	1,2-Dichloroethane	4	4.08	102.0	(70.00 - 130.00)
MBLK	1,2-Dichloroethane	ND			
LCS1	1,2-Dichloropropane	4	3.63	90.8	(70.00 - 130.00)
MBLK	1,2-Dichloropropane	ND			
MBLK	1,3,5-Trimethylbenzene	ND			
LCS1	1,3-Dichloropropane	8	6.86	85.8	(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	4.35	108.7	(70.00 - 130.00)
MBLK	Benzene	ND			
MBLK	Bromobenzene	ND			
MBLK	Bromochloromethane	ND			
LCS1	Bromodichloromethane	4	3.63	90.8	(70.00 - 130.00)
MBLK	Bromodichloromethane	ND			
LCS1	Bromoform	4	3.27	81.8	(70.00 - 130.00)
MBLK	Bromoform	ND			
MBLK	Bromomethane (Methyl Bromide)	ND			
LCS1	Carbon Tetrachloride	4	3.88	97.0	(70.00 - 130.00)
MBLK	Carbon Tetrachloride	ND			
LCS1	Chlorobenzene	4	3.70	92.5	(70.00 - 130.00)
MBLK	Chlorobenzene	ND			
LCS1	Chlorodibromomethane	4	3.28	82.0	(70.00 - 130.00)
MBLK	Chlorodibromomethane	ND			
MBLK	Chloroethane	ND			

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Foster Wheeler Environmental, Inc
(continued)

LCS1	Chloroform (Trichloromethane)	4	3.71	92.8	(70.00 - 130.00)
MBLK	Chloroform (Trichloromethane)	ND			
MBLK	Chloromethane(Methyl Chloride)	ND			
MBLK	Dibromomethane	ND			
MBLK	Dichlorodifluoromethane	ND			
LCS1	Dichloromethane	4	4.13	103.2	(70.00 - 130.00)
MBLK	Dichloromethane	ND			
LCS1	Ethyl benzene	4	3.61	90.2	(70.00 - 130.00)
MBLK	Ethyl benzene	ND			
LCS1	Fluorotrichloromethane(Freon1)	2	2.17	108.5	(70.00 - 130.00)
MBLK	Fluorotrichloromethane(Freon1)	ND			
MBLK	Hexachlorobutadiene	ND			
MBLK	Isopropylbenzene	ND			
LCS1	Methyl Tert-butyl ether (MTBE)	4	3.68	92.0	(70.00 - 130.00)
MBLK	Methyl Tert-butyl ether (MTBE)	ND			
MBLK	Naphthalene	ND			
LCS1	Styrene	4	3.50	87.5	(70.00 - 130.00)
MBLK	Styrene	ND			
LCS1	Tetrachloroethylene (PCE)	4	4.70	117.5	(70.00 - 130.00)
MBLK	Tetrachloroethylene (PCE)	ND			
LCS1	Toluene	4	4.15	103.8	(70.00 - 130.00)
MBLK	Toluene	ND			
LCS1	Trichloroethylene (TCE)	4	4.19	104.8	(70.00 - 130.00)
MBLK	Trichloroethylene (TCE)	ND			
LCS1	Trichlorotrifluoroethane(Freon	4	4.00	100.0	(70.00 - 130.00)
MBLK	Trichlorotrifluoroethane(Freon	ND			
LCS1	Vinyl chloride (VC)	2	2.16	108.0	(70.00 - 130.00)
MBLK	Vinyl chloride (VC)	ND			
LCS1	cis-1,2-Dichloroethylene	4	4.06	101.5	(70.00 - 130.00)
MBLK	cis-1,2-Dichloroethylene	ND			
MBLK	cis-1,3-Dichloropropene	ND			
LCS1	m,p-Xylenes	8	7.61	95.1	(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	3.80	95.0	(70.00 - 130.00)

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Foster Wheeler Environmental, Inc
(continued)

MBLK	o-Dichlorobenzene (1,2-DCB)	ND			
LCS1	o-Xylene	4	3.58	89.5	(70.00 - 130.00)
MBLK	o-Xylene	ND			
MBLK	p-Chlorotoluene	ND			
LCS1	p-Dichlorobenzene (1,4-DCB)	4	3.74	93.5	(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	4.48	112.0	(70.00 - 130.00)
MBLK	trans-1,2-Dichloroethylene	ND			
MBLK	trans-1,3-Dichloropropene	ND			

QC Batch #59519 Hexavalent chromium

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Hexavalent chromium	0.050	0.0464	92.8	(78.00 - 118.00)	
LCS2	Hexavalent chromium	0.050	0.0464	92.8	(78.00 - 118.00)	0.00
MBLK	Hexavalent chromium	ND				
MS	Hexavalent chromium	0.050	0.0489	97.8	(80.00 - 120.00)	
MSD	Hexavalent chromium	0.050	0.0489	97.8	(80.00 - 120.00)	0.00

QC Batch #59550 Alkalinity

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Alkalinity	96.2	95.8	99.6	(90.00 - 110.00)	
LCS2	Alkalinity	96.2	96.1	99.9	(90.00 - 110.00)	0.31
MBLK	Alkalinity	ND				
MS	Alkalinity	96.2	94.7	98.4	(80.00 - 120.00)	
MSD	Alkalinity	96.2	98.1	102.0	(80.00 - 120.00)	3.5

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(continued)

QC Batch #59607 Total Dissolved Solids

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Total Dissolved Solids	175	176	100.6	(85.00 - 115.00)	
LCS2	Total Dissolved Solids	175	174	99.4	(85.00 - 115.00)	1.1
MBLK	Total Dissolved Solids	ND				

QC Batch #59751 Potassium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Potassium, Flame AA	20	18.5	92.5	(80.00 - 120.00)	
LCS2	Potassium, Flame AA	20	18.5	92.5	(80.00 - 120.00)	0.00
MBLK	Potassium, Flame AA	ND				
MS	Potassium, Flame AA	20	18.9	94.5	(80.00 - 120.00)	
MSD	Potassium, Flame AA	20	18.8	94.0	(80.00 - 120.00)	0.53

QC Batch #59752 Sodium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Sodium, Flame AA	50	50.2	100.4	(90.00 - 110.00)	
LCS2	Sodium, Flame AA	50	49.6	99.2	(90.00 - 110.00)	1.2
MBLK	Sodium, Flame AA	ND				
MS	Sodium, Flame AA	50	50.1	100.2	(80.00 - 120.00)	
MSD	Sodium, Flame AA	50	49.9	99.8	(80.00 - 120.00)	0.40

QC Batch #59760 Magnesium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Magnesium, Flame AA	20	19.1	95.5	(90.00 - 110.00)	
LCS2	Magnesium, Flame AA	20	19.4	97.0	(90.00 - 110.00)	1.6
MBLK	Magnesium, Flame AA	ND				
MS	Magnesium, Flame AA	20	19.7	98.5	(80.00 - 120.00)	
MSD	Magnesium, Flame AA	20	20.2	101.0	(80.00 - 120.00)	2.5

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Foster Wheeler Environmental, Inc
(continued)

QC Batch #59761 Calcium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Calcium, Flame AA	50	48.9	97.8	(90.00 - 110.00)	
LCS2	Calcium, Flame AA	50	50.3	100.6	(90.00 - 110.00)	2.8
MBLK	Calcium, Flame AA	ND				
MS	Calcium, Flame AA	50	47.5	95.0	(80.00 - 120.00)	
MSD	Calcium, Flame AA	50	49.1	98.2	(80.00 - 120.00)	3.3

QC Batch #59775 Arsenic, Total, GF

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Arsenic, Total, GF	0.020	0.0189	94.5	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.0205	102.5	(85.00 - 115.00)	8.1
MBLK	Arsenic, Total, GF	ND				
MS	Arsenic, Total, GF	0.020	0.0228	114.0	(85.00 - 115.00)	
MSD	Arsenic, Total, GF	0.020	0.0208	104.0	(85.00 - 115.00)	9.2

QC Batch #59782 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP/MS	100	101	101.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	95.1	95.1	(85.00 - 115.00)	6.0
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	98.1	98.1	(70.00 - 130.00)	1.9

QC Batch #59783 Iron, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Iron, Total, ICAP/MS	500	546	109.2	(85.00 - 115.00)	
MBLK	Iron, Total, ICAP/MS	ND		0.0		
MS	Iron, Total, ICAP/MS	500	482.	96.0	(70.00 - 130.00)	

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(continued)

MSD	Iron, Total, ICAP/MS	500	448.	89.6	(70.00 - 130.00)	7.3

QC Batch #59785 Lead, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Lead, Total, ICAP/MS	20	19.5	97.5	(85.00 - 115.00)	
LCS2	Lead, Total, ICAP/MS	20	19.5	97.5	(85.00 - 115.00)	0.00
MBLK	Lead, Total, ICAP/MS	ND		0.0		
MS	Lead, Total, ICAP/MS	20	19.6	98.0	(70.00 - 130.00)	
MSD	Lead, Total, ICAP/MS	20	19.6	98.0	(70.00 - 130.00)	0.00

QC Batch #59883 Total phosphorus-P

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Total phosphorus-P	0.5	.414	82.8	(80.00 - 120.00)	
LCS2	Total phosphorus-P	0.5	.421	84.2	(80.00 - 120.00)	1.7
MBLK	Total phosphorus-P	ND				
MS	Total phosphorus-P	0.4	.349	87.2	(70.00 - 130.00)	
MSD	Total phosphorus-P	0.4	.323	80.8	(70.00 - 130.00)	7.7

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

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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
ADE* MAR 31 1997

Report#: 32199
JPL
revised 3/31/97

MONTGOMERY WATSON LABORATORIES

March 31, 1997

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

Attention: Mark Cutler

Re: Report # 32199 (MW-971-76, 75, 57, 56, 55) Revised 3/31/97

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):
For sample -76, the scond internal standard was recovered below 70%. On the initial run, both IS#2 and IS#3 were recovered below 70% so data from the first analysis was used for volatiles. Reference QIR MS-97-007. No compounds quantitated off IS #2 were detected in that sample. Iron was recovered high in one LCS, but the second LCS was acceptable. Only 1 LCS was reported for iron. For anions by ion chromatography results from the second LCS were not available due to autosampler failure (ref QIR MET-97-06). MTBE was recovered high in the LCS but was not detected in any samples.

Samples requiring dilution (with increased MRL's):
Sample -55 was diluted for anions by ion chromatography.

Method blanks with compounds detected:
Lead was detected below the CRDL in the method blank.

Other Comments:
Acetone was detected as a TIC in several samples. Methylene chloride was detected in one sample. Chloroform was detected in several samples. This report was revised to correct a reporting error in the reporting limit for lead.

Sincerely,

Andrew Eaton, PhD
Laboratory Director

cc: Judy Novelly (JPL)

a Division of Montgomery Watson Americas, Inc.
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Quality Environmental Analysis

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Laboratory Report #32199

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

Samples Received
10-feb-1997 14:50:14

MW-971-76 (970210057) Sampled on 02/10/97

Regulated VOCs plus Lists 1&3

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	02/11/97	59677	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	02/11/97	59677	(ML/EPA 524.2)	2-Chloroethylvinylether	ND	ug/l	1.0	1
	02/11/97	59677	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	02/11/97	59677	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1

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Laboratory
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#32199

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	02/11/97	59677	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Dichloromethane	1.2	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Fluorotrichloromethane(Freon1)	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/l	5.0	1
	02/11/97	59677	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	02/11/97	59677	(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	84	% Rec		

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
			(Surrogate	) Toluene-d8	84	% Rec		
MW-971-75 (970210058)			**Sampled on 02/10/97**					
02/14/97	02/18/97	59775	(S3113B/E200.9	) Arsenic, Total, GF	ND	mg/l	0.005	1
02/14/97	02/17/97	59782	(EPA/MS 200.8	) Chromium, Total, ICAP/MS	ND	ug/l	10	1
	02/11/97	59623	(ML/SW 7196	) Hexavalent chromium	ND	mg/l	0.005	1
02/14/97	02/17/97	59785	(EPA/ML 200.8	) Lead, Total, ICAP/MS	ND	ug/l	2.0	1
			Regulated VOCs plus Lists 1&3					
	02/17/97	59893	(ML/EPA 524.2	) 1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2	) 1,1,1-Trichloroethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2	) 1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2	) 1,1,2-Trichloroethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2	) 1,1-Dichloroethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2	) 1,1-Dichloroethylene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2	) 1,1-Dichloropropene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2	) 1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2	) 1,2,3-Trichloropropane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2	) 1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2	) 1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2	) 1,2-Dichloroethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2	) 1,2-Dichloropropane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2	) 1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2	) 1,3-Dichloropropane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2	) p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2	) 2,2-Dichloropropane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2	) 2-Butanone (MEK)	ND	ug/l	5.0	1
	02/17/97	59893	(ML/EPA 524.2	) 2-Chloroethylvinylether	ND	ug/l	1.0	1
	02/17/97	59893	(ML/EPA 524.2	) o-Chlorotoluene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2	) p-Chlorotoluene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2	) 4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	02/17/97	59893	(ML/EPA 524.2	) Benzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2	) Bromobenzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2	) Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2	) cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2	) Chlorobenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	02/17/97	59893	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Fluorotrichloromethane(Freon1)	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/l	5.0	1
	02/17/97	59893	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	Acetone	3.2	ug/L		1

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Laboratory Report #32199

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
			(Surrogate)	1,2-Dichloroethane-d4	96	% Rec		
			(Surrogate)	4-Bromofluorobenzene	89	% Rec		
			(Surrogate)	Toluene-d8	95	% Rec		
MW-971-57 (970210059)			**Sampled on 02/10/97**					
	02/11/97	59550	(ML/S2320B)	Alkalinity	175	mg/l	2.0	1
	02/25/97		(ML/SM1040)	Anion Sum	4.82	meq/l	0.0010	1
02/14/97	02/18/97	59775	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	02/17/97	59761	(ML/S3111B)	Calcium, Flame AA	11	mg/l	1.0	1
	02/21/97		(ML/SM1040)	Cation Sum	4.97	meq/l	0.0010	1
	02/12/97	59734	(ML/EPA 300)	Chloride	30	mg/l	1.0	1
	02/16/97		(ML/S2320-B)	Carbonate as CO3, Calculated	26.3	mg/l	0.0010	1
02/14/97	02/17/97	59782	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	02/11/97	59623	(ML/SW 7196)	Hexavalent chromium	ND	mg/l	0.005	1
	02/17/97		(ML/S2510B)	Specific Conductance	450	umho/cm	4.0	1
02/14/97	02/17/97	59783	(EPA/ML 200.8)	Iron, Total, ICAP/MS	ND	ug/l	100	1
	02/16/97		(ML/S2320B)	Bicarbonate as HCO3,calculated	203	mg/l	0.0010	1
	02/17/97	59751	(ML/S3111B)	Potassium, Flame AA	2.8	mg/l	1.0	1
	02/17/97	59760	(ML/S3111B)	Magnesium, Flame AA	18	mg/l	1.0	1
	02/17/97	59752	(ML/S3111B)	Sodium, Flame AA	66	mg/l	1.0	1
	02/12/97	59736	(ML/EPA 300.0)	Nitrate-N by IC	1.4	mg/l	0.10	1
02/14/97	02/17/97	59785	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	02/12/97		(ML/S4500H-B)	Lab pH	9.3	Units	0.0010	1
	02/12/97	59737	(ML/EPA 300)	Sulfate	18	mg/l	2.0	1
	02/19/97	59883	(ML/EPA 365.2)	Total phosphorus-P	ND	mg/l	0.050	1
	02/11/97	59607	(ML/S2540C)	Total Dissolved Solids	240	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	02/11/97	59677	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	02/11/97	59677	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	02/11/97	59677	(ML/EPA 524.2)	2-Chloroethylvinylether	ND	ug/l	1.0	1
	02/11/97	59677	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	02/11/97	59677	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Fluorotrichloromethane(Freon1)	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	02/11/97	59677	(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
	02/11/97	59677	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/l	5.0	1
	02/11/97	59677	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	100	% Rec		
			(Surrogate)	4-Bromofluorobenzene	80	% Rec		
			(Surrogate)	Toluene-d8	96	% Rec		

MW-971-56 (970210060) Sampled on 02/10/97

	02/11/97	59550	(ML/S2320B)	Alkalinity	155	mg/l	2.0	1
	02/25/97		(ML/SM1040)	Anion Sum	4.62	meq/l	0.0010	1
02/14/97	02/18/97	59775	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	02/17/97	59761	(ML/S3111B)	Calcium, Flame AA	52	mg/l	1.0	1
	02/21/97		(ML/SM1040)	Cation Sum	4.75	meq/l	0.0010	1
	02/12/97	59734	(ML/EPA 300)	Chloride	18	mg/l	1.0	1
	02/16/97		(ML/S2320-B)	Carbonate as CO3, Calculated	0.616	mg/l	0.0010	1
02/14/97	02/17/97	59782	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	02/11/97	59623	(ML/SW 7196)	Hexavalent chromium	ND	mg/l	0.005	1
	02/17/97		(ML/S2510B)	Specific Conductance	425	umho/cm	4.0	1
02/14/97	02/17/97	59783	(EPA/ML 200.8)	Iron, Total, ICAP/MS	240	ug/l	100	1
	02/16/97		(ML/S2320B)	Bicarbonate as HCO3,calculated	189	mg/l	0.0010	1

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(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	02/17/97	59751	(ML/S3111B)	Potassium, Flame AA	2.2	mg/l	1.0	1
	02/17/97	59760	(ML/S3111B)	Magnesium, Flame AA	18	mg/l	1.0	1
	02/17/97	59752	(ML/S3111B)	Sodium, Flame AA	14	mg/l	1.0	1
	02/12/97	59736	(ML/EPA 300.0)	Nitrate-N by IC	3.4	mg/l	0.10	1
02/14/97	02/17/97	59785	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	02/12/97		(ML/S4500H-B)	Lab pH	7.7	Units	0.0010	1
	02/12/97	59737	(ML/EPA 300)	Sulfate	37	mg/l	2.0	1
	02/19/97	59883	(ML/EPA 365.2)	Total phosphorus-P	ND	mg/l	0.050	1
	02/11/97	59607	(ML/S2540C)	Total Dissolved Solids	250	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	02/11/97	59677	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	02/11/97	59677	(ML/EPA 524.2)	2-Chloroethylvinylether	ND	ug/l	1.0	1
	02/11/97	59677	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	02/11/97	59677	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	02/11/97	59677	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Chloroform (Trichloromethane)	3.2	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Fluorotrichloromethane(Freon1)	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/l	5.0	1
	02/11/97	59677	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	02/11/97	59677	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	02/11/97	59677	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	108	% Rec		
			(Surrogate)	4-Bromofluorobenzene	84	% Rec		
			(Surrogate)	Toluene-d8	96	% Rec		
MW-971-55 (970210061)			**Sampled on 02/10/97**					
	02/11/97	59550	(ML/S2320B)	Alkalinity	165	mg/l	2.0	1
	02/25/97		(ML/SM1040)	Anion Sum	8.80	meq/l	0.0010	1
03/04/97	03/06/97	60274	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	02/17/97	59761	(ML/S3111B)	Calcium, Flame AA	95	mg/l	1.0	1
	02/21/97		(ML/SM1040)	Cation Sum	8.43	meq/l	0.0010	1
	02/12/97	59734	(ML/EPA 300)	Chloride	55	mg/l	2.0	2
	02/16/97		(ML/S2320-B)	Carbonate as CO3, Calculated	0.655	mg/l	0.0010	1
03/04/97	03/05/97	60291	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	2.0	1
	02/11/97	59623	(ML/SW 7196)	Hexavalent chromium	ND	mg/l	0.005	1
	02/17/97		(ML/S2510B)	Specific Conductance	780	umho/cm	4.0	1
03/04/97	03/05/97	60292	(EPA/ML 200.8)	Iron, Total, ICAP/MS	110	ug/l	50	1
	02/16/97		(ML/S2320B)	Bicarbonate as HCO3,calculated	201	mg/l	0.0010	1
	02/17/97	59751	(ML/S3111B)	Potassium, Flame AA	3.6	mg/l	1.0	1
	02/17/97	59760	(ML/S3111B)	Magnesium, Flame AA	32	mg/l	1.0	1
	02/17/97	59752	(ML/S3111B)	Sodium, Flame AA	22	mg/l	1.0	1
	02/12/97	59736	(ML/EPA 300.0)	Nitrate-N by IC	13	mg/l	0.20	2
03/04/97	03/05/97	60293	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	02/12/97		(ML/S4500H-B)	Lab pH	7.7	Units	0.0010	1
	02/12/97	59737	(ML/EPA 300)	Sulfate	145	mg/l	4.0	2
	02/19/97	59883	(ML/EPA 365.2)	Total phosphorus-P	ND	mg/l	0.050	1
	02/11/97	59607	(ML/S2540C)	Total Dissolved Solids	460	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	02/17/97	59893	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	02/17/97	59893	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	02/17/97	59893	(ML/EPA 524.2)	2-Chloroethylvinylether	ND	ug/l	1.0	1
	02/17/97	59893	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	02/17/97	59893	(ML/EPA 524.2)	Benzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Chloroform (Trichloromethane)	1.4	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Fluorotrichloromethane(Freon1)	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	02/17/97	59893	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/l	5.0	1
	02/17/97	59893	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	Acetone	2.4	ug/L		1
			(Surrogate)	1,2-Dichloroethane-d4	97	% Rec		
			(Surrogate)	4-Bromofluorobenzene	94	% Rec		
			(Surrogate)	Toluene-d8	96	% Rec		

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Report
Comments
#32199

Group Comments

(524) Internal standard #2 recovered less than 70%(at 68.7%) in sample MW-971-76. This sample was analyzed once before and two internal standards were low. No target analytes quantitated off IS#2 was detected in this sample. Reference QIR-MS-97-007.
(Iron) One LCS is reported for Iron analysis.

(970210059)

CL
LCS 2 result not available. QIR-MET-97-06.

NO3
LCS 2 data not available. QIR-MET-97-06.

SO4
LCS 2 data not available. QIR-MET-97-06.

(970210060)

CL
LCS 2 result not available. QIR-MET-97-06.

NO3
LCS 2 data not available. QIR_MET-97-06.

SO4
LCS 2 data not available. QIR-MET-97-06.

(970210061)

CL
LCS 2 result not available. QIR-MET-97-06.

NO3
LCS 2 data not available. QIR-MET-97-06.

SO4
LCS 2 data not available. QIR-MET-97-06.

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Laboratory QC Report #32199

Foster Wheeler Environmental, Inc

QC Batch #59550 Alkalinity

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Alkalinity	96.2	95.8	99.6	(90.00 - 110.00)	
LCS2	Alkalinity	96.2	96.1	99.9	(90.00 - 110.00)	0.31
MBLK	Alkalinity	ND				
MS	Alkalinity	96.2	94.7	98.4	(80.00 - 120.00)	
MSD	Alkalinity	96.2	98.1	102.0	(80.00 - 120.00)	3.5

QC Batch #59607 Total Dissolved Solids

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Total Dissolved Solids	175	176	100.6	(85.00 - 115.00)	
LCS2	Total Dissolved Solids	175	174	99.4	(85.00 - 115.00)	1.1
MBLK	Total Dissolved Solids	ND				

QC Batch #59623 Hexavalent chromium

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Hexavalent chromium	0.050	0.0465	93.0	(78.00 - 118.00)	
LCS2	Hexavalent chromium	0.050	0.0451	90.2	(78.00 - 118.00)	3.1
MBLK	Hexavalent chromium	ND				
MS	Hexavalent chromium	0.050	0.0438	87.6	(80.00 - 120.00)	
MSD	Hexavalent chromium	0.050	0.0451	90.2	(80.00 - 120.00)	2.9

QC Batch #59677 Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	4	4.16	104.0	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	4.12	103.0	(70.00 - 130.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	3.55	88.8	(70.00 - 130.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	4.45	111.2	(70.00 - 130.00)	

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MBLK	1,1-Dichloroethane	ND			
LCS1	1,1-Dichloroethylene	4	4.63	115.8	(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	3.62	90.5	(70.00 - 130.00)
MBLK	1,2,4-Trichlorobenzene	ND			
MBLK	1,2,4-Trimethylbenzene	ND			
LCS1	1,2-Dichloroethane	4	4.41	110.2	(70.00 - 130.00)
MBLK	1,2-Dichloroethane	ND			
LCS1	1,2-Dichloropropane	4	3.85	96.2	(70.00 - 130.00)
MBLK	1,2-Dichloropropane	ND			
MBLK	1,3,5-Trimethylbenzene	ND			
LCS1	1,3-Dichloropropane	8	7.14	89.2	(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	4.60	115.0	(70.00 - 130.00)
MBLK	Benzene	ND			
MBLK	Bromobenzene	ND			
MBLK	Bromochloromethane	ND			
LCS1	Bromodichloromethane	4	4.01	100.2	(70.00 - 130.00)
MBLK	Bromodichloromethane	ND			
LCS1	Bromoform	4	3.31	82.8	(70.00 - 130.00)
MBLK	Bromoform	ND			
MBLK	Bromomethane (Methyl Bromide)	ND			
LCS1	Carbon Tetrachloride	4	4.77	119.2	(70.00 - 130.00)
MBLK	Carbon Tetrachloride	ND			
LCS1	Chlorobenzene	4	4.37	109.2	(70.00 - 130.00)
MBLK	Chlorobenzene	ND			
LCS1	Chlorodibromomethane	4	3.60	90.0	(70.00 - 130.00)
MBLK	Chlorodibromomethane	ND			
MBLK	Chloroethane	ND			
LCS1	Chloroform (Trichloromethane)	4	3.99	99.8	(70.00 - 130.00)
MBLK	Chloroform (Trichloromethane)	ND			

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MBLK	Chloromethane(Methyl Chloride)	ND			
MBLK	Dibromomethane	ND			
MBLK	Dichlorodifluoromethane	ND			
LCS1	Dichloromethane	4	4.73	118.3	(70.00 - 130.00)
MBLK	Dichloromethane	ND			
LCS1	Ethyl benzene	4	4.28	107.0	(70.00 - 130.00)
MBLK	Ethyl benzene	ND			
LCS1	Fluorotrichloromethane(Freon1)	2	2.26	113.0	(70.00 - 130.00)
MBLK	Fluorotrichloromethane(Freon1)	ND			
MBLK	Hexachlorobutadiene	ND			
MBLK	Isopropylbenzene	ND			
LCS1	Methyl Tert-butyl ether (MTBE)	4	6.75	168.8	(70.00 - 130.00)
MBLK	Methyl Tert-butyl ether (MTBE)	ND			
MBLK	Naphthalene	ND			
LCS1	Styrene	4	4.38	109.5	(70.00 - 130.00)
MBLK	Styrene	ND			
LCS1	Tetrachloroethylene (PCE)	4	5.16	129.0	(70.00 - 130.00)
MBLK	Tetrachloroethylene (PCE)	ND			
LCS1	Toluene	4	4.65	116.3	(70.00 - 130.00)
MBLK	Toluene	ND			
LCS1	Trichloroethylene (TCE)	4	4.36	109.0	(70.00 - 130.00)
MBLK	Trichloroethylene (TCE)	ND			
LCS1	Trichlorotrifluoroethane(Freon	4	4.08	102.0	(70.00 - 130.00)
MBLK	Trichlorotrifluoroethane(Freon	ND			
LCS1	Vinyl chloride (VC)	2	2.30	115.0	(70.00 - 130.00)
MBLK	Vinyl chloride (VC)	ND			
LCS1	cis-1,2-Dichloroethylene	4	4.35	108.7	(70.00 - 130.00)
MBLK	cis-1,2-Dichloroethylene	ND			
MBLK	cis-1,3-Dichloropropene	ND			
LCS1	m,p-Xylenes	8	9.29	116.1	(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	4.01	100.2	(70.00 - 130.00)
MBLK	o-Dichlorobenzene (1,2-DCB)	ND			
LCS1	o-Xylene	4	4.46	111.5	(70.00 - 130.00)

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MBLK	o-Xylene	ND			
MBLK	p-Chlorotoluene	ND			
LCS1	p-Dichlorobenzene (1,4-DCB)	4	3.82	95.5	(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	4.63	115.8	(70.00 - 130.00)
MBLK	trans-1,2-Dichloroethylene	ND			
MBLK	trans-1,3-Dichloropropene	ND			

QC Batch #59734 Chloride

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Chloride	25	26.6	106.4	(90.00 - 110.00)	
MBLK	Chloride	ND				
MS	Chloride	25	29.3	117.2	(80.00 - 120.00)	
MSD	Chloride	25	29.4	117.6	(80.00 - 120.00)	0.34

QC Batch #59736 Nitrate-N by IC

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Nitrate-N by IC	2.5	2.70	108.0	(90.00 - 110.00)	
MBLK	Nitrate-N by IC	ND				
MS	Nitrate-N by IC	2.5	2.72	108.8	(80.00 - 120.00)	
MSD	Nitrate-N by IC	2.5	2.75	110.0	(80.00 - 120.00)	1.1

QC Batch #59737 Sulfate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Sulfate	50	52.2	104.4	(90.00 - 110.00)	
MBLK	Sulfate	ND				
MS	Sulfate	50	58.4	116.8	(70.00 - 130.00)	
MSD	Sulfate	50	58.4	116.8	(70.00 - 130.00)	0.00

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QC Batch #59751 Potassium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Potassium, Flame AA	20	18.5	92.5	(80.00 - 120.00)	
LCS2	Potassium, Flame AA	20	18.5	92.5	(80.00 - 120.00)	0.00
MBLK	Potassium, Flame AA	ND				
MS	Potassium, Flame AA	20	18.9	94.5	(80.00 - 120.00)	
MSD	Potassium, Flame AA	20	18.8	94.0	(80.00 - 120.00)	0.53

QC Batch #59752 Sodium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Sodium, Flame AA	50	50.2	100.4	(90.00 - 110.00)	
LCS2	Sodium, Flame AA	50	49.6	99.2	(90.00 - 110.00)	1.2
MBLK	Sodium, Flame AA	ND				
MS	Sodium, Flame AA	50	50.1	100.2	(80.00 - 120.00)	
MSD	Sodium, Flame AA	50	49.9	99.8	(80.00 - 120.00)	0.40

QC Batch #59760 Magnesium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Magnesium, Flame AA	20	19.1	95.5	(90.00 - 110.00)	
LCS2	Magnesium, Flame AA	20	19.4	97.0	(90.00 - 110.00)	1.6
MBLK	Magnesium, Flame AA	ND				
MS	Magnesium, Flame AA	20	19.7	98.5	(80.00 - 120.00)	
MSD	Magnesium, Flame AA	20	20.2	101.0	(80.00 - 120.00)	2.5

QC Batch #59761 Calcium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Calcium, Flame AA	50	48.9	97.8	(90.00 - 110.00)	
LCS2	Calcium, Flame AA	50	50.3	100.6	(90.00 - 110.00)	2.8
MBLK	Calcium, Flame AA	ND				

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MS	Calcium, Flame AA	50	47.5	95.0	(80.00 - 120.00)	
MSD	Calcium, Flame AA	50	49.1	98.2	(80.00 - 120.00)	3.3

QC Batch #59775 Arsenic, Total, GF

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Arsenic, Total, GF	0.020	0.0189	94.5	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.0205	102.5	(85.00 - 115.00)	8.1
MBLK	Arsenic, Total, GF	ND				
MS	Arsenic, Total, GF	0.020	0.0228	114.0	(85.00 - 115.00)	
MSD	Arsenic, Total, GF	0.020	0.0208	104.0	(85.00 - 115.00)	9.2

QC Batch #59782 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP/MS	100	101	101.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	95.1	95.1	(85.00 - 115.00)	6.0
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	98.1	98.1	(70.00 - 130.00)	1.9

QC Batch #59783 Iron, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Iron, Total, ICAP/MS	500	546	109.2	(85.00 - 115.00)	
MBLK	Iron, Total, ICAP/MS	ND		0.0		
MS	Iron, Total, ICAP/MS	500	482.	96.0	(70.00 - 130.00)	
MSD	Iron, Total, ICAP/MS	500	448.	89.6	(70.00 - 130.00)	7.3

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QC Batch #59785 Lead, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Lead, Total, ICAP/MS	20	19.5	97.5	(85.00 - 115.00)	
LCS2	Lead, Total, ICAP/MS	20	19.5	97.5	(85.00 - 115.00)	0.00
MBLK	Lead, Total, ICAP/MS	ND		0.0		
MS	Lead, Total, ICAP/MS	20	19.6	98.0	(70.00 - 130.00)	
MSD	Lead, Total, ICAP/MS	20	19.6	98.0	(70.00 - 130.00)	0.00

QC Batch #59883 Total phosphorus-P

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Total phosphorus-P	0.5	.414	82.8	(80.00 - 120.00)	
LCS2	Total phosphorus-P	0.5	.421	84.2	(80.00 - 120.00)	1.7
MBLK	Total phosphorus-P	ND				
MS	Total phosphorus-P	0.4	.349	87.2	(70.00 - 130.00)	
MSD	Total phosphorus-P	0.4	.323	80.8	(70.00 - 130.00)	7.7

QC Batch #59893 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	3.25	81.2	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	4.06	101.5	(70.00 - 130.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	3.64	91.0	(70.00 - 130.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	3.30	82.5	(70.00 - 130.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	2.80	70.0	(70.00 - 130.00)	
MBLK	1,1-Dichloroethylene	ND				
MBLK	1,1-Dichloropropene	ND				
MBLK	1,2,3-Trichlorobenzene	ND				

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MBLK	1,2,3-Trichloropropane	ND			
LCS1	1,2,4-Trichlorobenzene	4	3.48	87.0	(70.00 - 130.00)
MBLK	1,2,4-Trichlorobenzene	ND			
MBLK	1,2,4-Trimethylbenzene	ND			
LCS1	1,2-Dichloroethane	4	3.51	87.8	(70.00 - 130.00)
MBLK	1,2-Dichloroethane	ND			
LCS1	1,2-Dichloropropane	4	3.45	86.2	(70.00 - 130.00)
MBLK	1,2-Dichloropropane	ND			
MBLK	1,3,5-Trimethylbenzene	ND			
LCS1	1,3-Dichloropropane	8	7.05	88.1	(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	3.64	91.0	(70.00 - 130.00)
MBLK	Bromodichloromethane	ND			
LCS1	Bromoform	4	3.47	86.8	(70.00 - 130.00)
MBLK	Bromoform	ND			
MBLK	Bromomethane (Methyl Bromide)	ND			
LCS1	Carbon Tetrachloride	4	3.49	87.2	(70.00 - 130.00)
MBLK	Carbon Tetrachloride	ND			
LCS1	Chlorobenzene	4	3.78	94.5	(70.00 - 130.00)
MBLK	Chlorobenzene	ND			
LCS1	Chlorodibromomethane	4	3.69	92.2	(70.00 - 130.00)
MBLK	Chlorodibromomethane	ND			
MBLK	Chloroethane	ND			
LCS1	Chloroform (Trichloromethane)	4	3.32	83.0	(70.00 - 130.00)
MBLK	Chloroform (Trichloromethane)	ND			
MBLK	Chloromethane(Methyl Chloride)	ND			
MBLK	Dibromomethane	ND			
MBLK	Dichlorodifluoromethane	ND			
LCS1	Dichloromethane	4	3.37	84.2	(70.00 - 130.00)
MBLK	Dichloromethane	ND			

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LCS1	Ethyl benzene	4	3.74	93.5	(70.00 - 130.00)
MBLK	Ethyl benzene	ND			
LCS1	Fluorotrichloromethane(Freon1)	2	2.03	101.5	(70.00 - 130.00)
MBLK	Fluorotrichloromethane(Freon1)	ND			
MBLK	Hexachlorobutadiene	ND			
MBLK	Isopropylbenzene	ND			
LCS1	Methyl Tert-butyl ether (MTBE)	4	4.34	108.5	(70.00 - 130.00)
MBLK	Methyl Tert-butyl ether (MTBE)	ND			
MBLK	Naphthalene	ND			
LCS1	Styrene	4	3.93	98.2	(70.00 - 130.00)
MBLK	Styrene	ND			
LCS1	Tetrachloroethylene (PCE)	4	3.82	95.5	(70.00 - 130.00)
MBLK	Tetrachloroethylene (PCE)	ND			
LCS1	Toluene	4	3.57	89.2	(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	4	3.73	93.2	(70.00 - 130.00)
MBLK	Trichlorotrifluoroethane(Freon	ND			
LCS1	Vinyl chloride (VC)	2	1.94	97.0	(70.00 - 130.00)
MBLK	Vinyl chloride (VC)	ND			
LCS1	cis-1,2-Dichloroethylene	4	3.43	85.8	(70.00 - 130.00)
MBLK	cis-1,2-Dichloroethylene	ND			
MBLK	cis-1,3-Dichloropropene	ND			
LCS1	m,p-Xylenes	8	7.90	98.8	(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	3.75	93.8	(70.00 - 130.00)
MBLK	o-Dichlorobenzene (1,2-DCB)	ND			
LCS1	o-Xylene	4	3.85	96.2	(70.00 - 130.00)
MBLK	o-Xylene	ND			
MBLK	p-Chlorotoluene	ND			
LCS1	p-Dichlorobenzene (1,4-DCB)	4	3.72	93.0	(70.00 - 130.00)
MBLK	p-Dichlorobenzene (1,4-DCB)	ND			
MBLK	p-Isopropyltoluene	ND			

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MBLK	sec-Butylbenzene	ND			
MBLK	tert-Butylbenzene	ND			
LCS1	trans-1,2-Dichloroethylene	4	2.80	70.0	(70.00 - 130.00)
MBLK	trans-1,2-Dichloroethylene	ND			
MBLK	trans-1,3-Dichloropropene	ND			

QC Batch #60274 Arsenic, Total, GF

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Arsenic, Total, GF	0.020	0.0216	108.0	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.0209	104.5	(85.00 - 115.00)	3.3
MBLK	Arsenic, Total, GF	ND				
MS	Arsenic, Total, GF	0.020	0.0207	103.5	(85.00 - 115.00)	
MSD	Arsenic, Total, GF	0.020	0.0223	111.5	(85.00 - 115.00)	7.4

QC Batch #60291 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP/MS	100	104	104.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	105	105.0	(85.00 - 115.00)	0.96
MBLK	Chromium, Total, ICAP/MS	ND		0.0		
MS	Chromium, Total, ICAP/MS	100	105.	105.0	(70.00 - 130.00)	
MSD	Chromium, Total, ICAP/MS	100	107.	107.0	(70.00 - 130.00)	1.9

QC Batch #60292 Iron, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Iron, Total, ICAP/MS	500	524	104.8	(85.00 - 115.00)	
LCS2	Iron, Total, ICAP/MS	500	524	104.8	(85.00 - 115.00)	0.00
MBLK	Iron, Total, ICAP/MS	ND		0.0		
MS	Iron, Total, ICAP/MS	500	551.	110.2	(70.00 - 130.00)	
MSD	Iron, Total, ICAP/MS	500	533.	106.6	(70.00 - 130.00)	3.3

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

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Laboratory
QC Report
#32199

Foster Wheeler Environmental, Inc
(continued)

QC Batch #60293 Lead, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Lead, Total, ICAP/MS	20	21.5	107.5	(85.00 - 115.00)	
LCS2	Lead, Total, ICAP/MS	20	21.0	105.0	(85.00 - 115.00)	2.4
MBLK	Lead, Total, ICAP/MS	ND	0.869	0.0		
MS	Lead, Total, ICAP/MS	20	21.1	105.5	(70.00 - 130.00)	
MSD	Lead, Total, ICAP/MS	20	19.8	99.0	(70.00 - 130.00)	6.4

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

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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

MAR 11 1997

Report#: 32238
JPL

MONTGOMERY WATSON LABORATORIES

March 11, 1997

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

Attention: Mark Cutler

Re: Report # 32238 (MW-971-78,77,54)

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):
All volatiles were analyzed within holding time with acceptable IS and surrogate recoveries. No LCS 2 data were available for anions due to an autosampler jam (ref QIR MET-97-06).

Samples requiring dilution (with increased MRL's):
Anions were diluted in sample-54 for ion chromatography.

Method blanks with compounds detected:
Lead was detected below the CRDL in the method blank.

Other Comments:
PCE was detected in sample -54.

Sincerely,

Andrew Eaton, PhD
Laboratory Director

cc: Judy Novelly (JPL)

a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 818 568 6400
Fax: 818 568 6324

Quality Environmental Analysis

MONTGOMERY WATSON LABORATORIES

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Laboratory Report #32238

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

Samples Received
11-feb-1997 15:59:57

MW-971-78 (970211124) Sampled on 02/11/97

Regulated VOCs plus Lists 1&3

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	02/18/97	59902	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	02/18/97	59902	(ML/EPA 524.2)	2-Chloroethylvinylether	ND	ug/l	1.0	1
	02/18/97	59902	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	02/18/97	59902	(EPA/SM 524.2)	Benzene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	cis-1,3-Dichloropropene	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
	02/18/97	59902	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Fluorotrichloromethane(Freon1)	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	02/18/97	59902	(ML524.2/SW8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/l	5.0	1
	02/18/97	59902	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	106	% Rec		
			(Surrogate)	4-Bromofluorobenzene	87	% Rec		

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
			(Surrogate)	Toluene-d8	97	% Rec		
MW-971-77 (970211125)			**Sampled on 02/11/97**					
03/04/97	03/06/97	60272	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
03/04/97	03/04/97	60245	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	02/11/97	59623	(ML/SW 7196)	Hexavalent chromium	ND	mg/l	0.005	1
03/04/97	03/04/97	60253	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
			Regulated VOCs plus Lists 1&3					
	02/17/97	59893	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	02/17/97	59893	(ML/EPA 524.2)	2-Chloroethylvinylether	ND	ug/l	1.0	1
	02/17/97	59893	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	02/17/97	59893	(EPA/SM 524.2)	Benzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Chlorobenzene	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
	02/17/97	59893	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Fluorotrichloromethane(Freon1)	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	02/17/97	59893	(ML524.2/SW8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/l	5.0	1
	02/17/97	59893	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None detected	ND			1

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
			(Surrogate)	1,2-Dichloroethane-d4	89	% Rec		
			(Surrogate)	4-Bromofluorobenzene	92	% Rec		
			(Surrogate)	Toluene-d8	93	% Rec		
MW-971-54 (970211126)			**Sampled on 02/11/97**					
	02/21/97	59884	(ML/S2320B)	Alkalinity	160	mg/l	2.0	1
	02/25/97		(ML/SM1040)	Anion Sum	6.69	meq/l	0.0010	1
03/04/97	03/06/97	60274	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	02/17/97	59761	(ML/S3111B)	Calcium, Flame AA	56	mg/l	1.0	1
	02/21/97		(ML/SM1040)	Cation Sum	6.65	meq/l	0.0010	1
	02/12/97	59734	(ML/EPA 300)	Chloride	74	mg/l	2.0	2
	02/25/97		(ML/S2320-B)	Carbonate as CO3, Calculated	1.27	mg/l	0.0010	1
03/04/97	03/05/97	60291	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	02/11/97	59623	(ML/SW 7196)	Hexavalent chromium	ND	mg/l	0.005	1
	02/17/97		(ML/S2510B)	Specific Conductance	615	umho/cm	4.0	1
03/04/97	03/05/97	60292	(EPA/ML 200.8)	Iron, Total, ICAP/MS	290	ug/l	100	1
	02/25/97		(ML/S2320B)	Bicarbonate as HCO3,calculated	195	mg/l	0.0010	1
	02/17/97	59751	(ML/S3111B)	Potassium, Flame AA	2.6	mg/l	1.0	1
	02/17/97	59760	(ML/S3111B)	Magnesium, Flame AA	27	mg/l	1.0	1
	02/17/97	59752	(ML/S3111B)	Sodium, Flame AA	36	mg/l	1.0	1
	02/12/97	59736	(ML/EPA 300.0)	Nitrate-N by IC	4.2	mg/l	0.20	2
03/04/97	03/05/97	60293	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	02/12/97		(ML/S4500H-B)	Lab pH	8.0	Units	0.0010	1
	02/12/97	59737	(ML/EPA 300)	Sulfate	53	mg/l	4.0	2
	02/19/97	59883	(ML/EPA 365.2)	Total phosphorus-P	ND	mg/l	0.050	1
	02/14/97	59758	(ML/S2540C)	Total Dissolved Solids	370	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	02/17/97	59893	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	02/17/97	59893	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	02/17/97	59893	(ML/EPA 524.2)	2-Chloroethylvinylether	ND	ug/l	1.0	1
	02/17/97	59893	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	02/17/97	59893	(EPA/SM 524.2)	Benzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Fluorotrichloromethane(Freon1)	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	02/17/97	59893	(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
	02/17/97	59893	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	02/17/97	59893	(ML524.2/SW8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/l	5.0	1
	02/17/97	59893	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	1.7	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	02/17/97	59893	(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	88	% Rec		
			(Surrogate)	Toluene-d8	95	% Rec		

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(970211126)

CL

LCS 2 data not available. QIR-MET-97-06.

NO3

LCS 2 data not available. QIR-MET-97-06.

SO4

LCS 2 data not available. QIR-MET-97-06.

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QC Batch #59623 Hexavalent chromium

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Hexavalent chromium	0.050	0.0465	93.0	(78.00 - 118.00)	
LCS2	Hexavalent chromium	0.050	0.0451	90.2	(78.00 - 118.00)	3.1
MBLK	Hexavalent chromium	ND				
MS	Hexavalent chromium	0.050	0.0438	87.6	(80.00 - 120.00)	
MSD	Hexavalent chromium	0.050	0.0451	90.2	(80.00 - 120.00)	2.9

QC Batch #59734 Chloride

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Chloride	25	26.6	106.4	(90.00 - 110.00)	
MBLK	Chloride	ND				
MS	Chloride	25	29.3	117.2	(80.00 - 120.00)	
MSD	Chloride	25	29.4	117.6	(80.00 - 120.00)	0.34

QC Batch #59736 Nitrate-N by IC

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Nitrate-N by IC	2.5	2.70	108.0	(90.00 - 110.00)	
MBLK	Nitrate-N by IC	ND				
MS	Nitrate-N by IC	2.5	2.72	108.8	(80.00 - 120.00)	
MSD	Nitrate-N by IC	2.5	2.75	110.0	(80.00 - 120.00)	1.1

QC Batch #59737 Sulfate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Sulfate	50	52.2	104.4	(90.00 - 110.00)	
MBLK	Sulfate	ND				
MS	Sulfate	50	58.4	116.8	(70.00 - 130.00)	
MSD	Sulfate	50	58.4	116.8	(70.00 - 130.00)	0.00

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QC Batch #59751 Potassium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Potassium, Flame AA	20	18.5	92.5	(80.00 - 120.00)	
LCS2	Potassium, Flame AA	20	18.5	92.5	(80.00 - 120.00)	0.00
MBLK	Potassium, Flame AA	ND				
MS	Potassium, Flame AA	20	18.9	94.5	(80.00 - 120.00)	
MSD	Potassium, Flame AA	20	18.8	94.0	(80.00 - 120.00)	0.53

QC Batch #59752 Sodium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Sodium, Flame AA	50	50.2	100.4	(90.00 - 110.00)	
LCS2	Sodium, Flame AA	50	49.6	99.2	(90.00 - 110.00)	1.2
MBLK	Sodium, Flame AA	ND				
MS	Sodium, Flame AA	50	50.1	100.2	(80.00 - 120.00)	
MSD	Sodium, Flame AA	50	49.9	99.8	(80.00 - 120.00)	0.40

QC Batch #59758 Total Dissolved Solids

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Total Dissolved Solids	175	174	99.4	(85.00 - 115.00)	
LCS2	Total Dissolved Solids	175	176	100.6	(85.00 - 115.00)	1.1
MBLK	Total Dissolved Solids	ND				

QC Batch #59760 Magnesium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Magnesium, Flame AA	20	19.1	95.5	(90.00 - 110.00)	
LCS2	Magnesium, Flame AA	20	19.4	97.0	(90.00 - 110.00)	1.6
MBLK	Magnesium, Flame AA	ND				
MS	Magnesium, Flame AA	20	19.7	98.5	(80.00 - 120.00)	
MSD	Magnesium, Flame AA	20	20.2	101.0	(80.00 - 120.00)	2.5

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QC Batch #59761 Calcium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Calcium, Flame AA	50	48.9	97.8	(90.00 - 110.00)	
LCS2	Calcium, Flame AA	50	50.3	100.6	(90.00 - 110.00)	2.8
MBLK	Calcium, Flame AA	ND				
MS	Calcium, Flame AA	50	47.5	95.0	(80.00 - 120.00)	
MSD	Calcium, Flame AA	50	49.1	98.2	(80.00 - 120.00)	3.3

QC Batch #59883 Total phosphorus-P

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Total phosphorus-P	0.5	.414	82.8	(80.00 - 120.00)	
LCS2	Total phosphorus-P	0.5	.421	84.2	(80.00 - 120.00)	1.7
MBLK	Total phosphorus-P	ND				
MS	Total phosphorus-P	0.4	.349	87.2	(70.00 - 130.00)	
MSD	Total phosphorus-P	0.4	.323	80.8	(70.00 - 130.00)	7.7

QC Batch #59884 Alkalinity

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Alkalinity	96.2	98.6	102.5	(90.00 - 110.00)	
LCS2	Alkalinity	96.2	97.7	101.6	(90.00 - 110.00)	0.92
MBLK	Alkalinity	ND				
MS	Alkalinity	96.2	97.2	101.0	(80.00 - 120.00)	
MSD	Alkalinity	96.2	99.4	103.3	(80.00 - 120.00)	2.2

QC Batch #59893 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	3.25	81.2	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				

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LCS1	1,1,2,2-Tetrachloroethane	4	4.06	101.5	(70.00 - 130.00)
MBLK	1,1,2,2-Tetrachloroethane	ND			
LCS1	1,1,2-Trichloroethane	4	3.64	91.0	(70.00 - 130.00)
MBLK	1,1,2-Trichloroethane	ND			
LCS1	1,1-Dichloroethane	4	3.30	82.5	(70.00 - 130.00)
MBLK	1,1-Dichloroethane	ND			
LCS1	1,1-Dichloroethylene	4	2.80	70.0	(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	3.48	87.0	(70.00 - 130.00)
MBLK	1,2,4-Trichlorobenzene	ND			
MBLK	1,2,4-Trimethylbenzene	ND			
LCS1	1,2-Dichloroethane	4	3.51	87.8	(70.00 - 130.00)
MBLK	1,2-Dichloroethane	ND			
LCS1	1,2-Dichloropropane	4	3.45	86.2	(70.00 - 130.00)
MBLK	1,2-Dichloropropane	ND			
MBLK	1,3,5-Trimethylbenzene	ND			
LCS1	1,3-Dichloropropane	8	7.05	88.1	(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	3.64	91.0	(70.00 - 130.00)
MBLK	Bromodichloromethane	ND			
LCS1	Bromoform	4	3.47	86.8	(70.00 - 130.00)
MBLK	Bromoform	ND			
MBLK	Bromomethane (Methyl Bromide)	ND			
LCS1	Carbon Tetrachloride	4	3.49	87.2	(70.00 - 130.00)
MBLK	Carbon Tetrachloride	ND			
LCS1	Chlorobenzene	4	3.78	94.5	(70.00 - 130.00)
MBLK	Chlorobenzene	ND			

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LCS1	Chlorodibromomethane	4	3.69	92.2	(70.00 - 130.00)
MBLK	Chlorodibromomethane	ND			
MBLK	Chloroethane	ND			
LCS1	Chloroform (Trichloromethane)	4	3.32	83.0	(70.00 - 130.00)
MBLK	Chloroform (Trichloromethane)	ND			
MBLK	Chloromethane(Methyl Chloride)	ND			
MBLK	Dibromomethane	ND			
MBLK	Dichlorodifluoromethane	ND			
LCS1	Dichloromethane	4	3.37	84.2	(70.00 - 130.00)
MBLK	Dichloromethane	ND			
LCS1	Ethyl benzene	4	3.74	93.5	(70.00 - 130.00)
MBLK	Ethyl benzene	ND			
LCS1	Fluorotrichloromethane(Freon1)	2	2.03	101.5	(70.00 - 130.00)
MBLK	Fluorotrichloromethane(Freon1)	ND			
MBLK	Hexachlorobutadiene	ND			
MBLK	Isopropylbenzene	ND			
LCS1	Methyl Tert-butyl ether (MTBE)	4	4.34	108.5	(70.00 - 130.00)
MBLK	Methyl Tert-butyl ether (MTBE)	ND			
MBLK	Naphthalene	ND			
LCS1	Styrene	4	3.93	98.2	(70.00 - 130.00)
MBLK	Styrene	ND			
LCS1	Tetrachloroethylene (PCE)	4	3.82	95.5	(70.00 - 130.00)
MBLK	Tetrachloroethylene (PCE)	ND			
LCS1	Toluene	4	3.57	89.2	(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	4	3.73	93.2	(70.00 - 130.00)
MBLK	Trichlorotrifluoroethane(Freon	ND			
LCS1	Vinyl chloride (VC)	2	1.94	97.0	(70.00 - 130.00)
MBLK	Vinyl chloride (VC)	ND			
LCS1	cis-1,2-Dichloroethylene	4	3.43	85.8	(70.00 - 130.00)
MBLK	cis-1,2-Dichloroethylene	ND			
MBLK	cis-1,3-Dichloropropene	ND			
LCS1	m,p-Xylenes	8	7.90	98.8	(70.00 - 130.00)
MBLK	m,p-Xylenes	ND			
MBLK	m-Dichlorobenzene (1,3-DCB)	ND			
MBLK	n-Butylbenzene	ND			

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MBLK	n-Propylbenzene	ND			
MBLK	o-Chlorotoluene	ND			
LCS1	o-Dichlorobenzene (1,2-DCB)	4	3.75	93.8	(70.00 - 130.00)
MBLK	o-Dichlorobenzene (1,2-DCB)	ND			
LCS1	o-Xylene	4	3.85	96.2	(70.00 - 130.00)
MBLK	o-Xylene	ND			
MBLK	p-Chlorotoluene	ND			
LCS1	p-Dichlorobenzene (1,4-DCB)	4	3.72	93.0	(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	2.80	70.0	(70.00 - 130.00)
MBLK	trans-1,2-Dichloroethylene	ND			
MBLK	trans-1,3-Dichloropropene	ND			

QC Batch #59902 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	3.50	87.5	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	3.84	96.0	(70.00 - 130.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	3.30	82.5	(70.00 - 130.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	3.45	86.2	(70.00 - 130.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	3.09	77.2	(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	3.34	83.5	(70.00 - 130.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	4	3.42	85.5	(70.00 - 130.00)	

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

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Foster Wheeler Environmental, Inc
(continued)

MBLK	1,2-Dichloroethane	ND			
LCS1	1,2-Dichloropropane	4	3.22	80.5	(70.00 - 130.00)
MBLK	1,2-Dichloropropane	ND			
MBLK	1,3,5-Trimethylbenzene	ND			
LCS1	1,3-Dichloropropane	8	6.35	79.4	(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	3.46	86.5	(70.00 - 130.00)
MBLK	Benzene	ND			
MBLK	Bromobenzene	ND			
MBLK	Bromochloromethane	ND			
LCS1	Bromodichloromethane	4	3.55	88.8	(70.00 - 130.00)
MBLK	Bromodichloromethane	ND			
LCS1	Bromoform	4	3.28	82.0	(70.00 - 130.00)
MBLK	Bromoform	ND			
MBLK	Bromomethane (Methyl Bromide)	ND			
LCS1	Carbon Tetrachloride	4	3.59	89.8	(70.00 - 130.00)
MBLK	Carbon Tetrachloride	ND			
LCS1	Chlorobenzene	4	3.61	90.2	(70.00 - 130.00)
MBLK	Chlorobenzene	ND			
LCS1	Chlorodibromomethane	4	3.30	82.5	(70.00 - 130.00)
MBLK	Chlorodibromomethane	ND			
MBLK	Chloroethane	ND			
LCS1	Chloroform (Trichloromethane)	4	3.53	88.2	(70.00 - 130.00)
MBLK	Chloroform (Trichloromethane)	ND			
MBLK	Chloromethane(Methyl Chloride)	ND			
MBLK	Dibromomethane	ND			
MBLK	Dichlorodifluoromethane	ND			
LCS1	Dichloromethane	4	3.36	84.0	(70.00 - 130.00)
MBLK	Dichloromethane	ND			
LCS1	Ethyl benzene	4	3.57	89.2	(70.00 - 130.00)
MBLK	Ethyl benzene	ND			
LCS1	Fluorotrichloromethane(Freon1)	2	2.27	113.5	(70.00 - 130.00)
MBLK	Fluorotrichloromethane(Freon1)	ND			
MBLK	Hexachlorobutadiene	ND			

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Laboratory
QC Report
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Foster Wheeler Environmental, Inc
(continued)

MBLK	Isopropylbenzene	ND			
LCS1	Methyl Tert-butyl ether (MTBE)	4	4.10	102.5	(70.00 - 130.00)
MBLK	Methyl Tert-butyl ether (MTBE)	ND			
MBLK	Naphthalene	ND			
LCS1	Styrene	4	3.67	91.8	(70.00 - 130.00)
MBLK	Styrene	ND			
LCS1	Tetrachloroethylene (PCE)	4	3.70	92.5	(70.00 - 130.00)
MBLK	Tetrachloroethylene (PCE)	ND			
LCS1	Toluene	4	3.46	86.5	(70.00 - 130.00)
MBLK	Toluene	ND			
LCS1	Trichloroethylene (TCE)	4	3.55	88.8	(70.00 - 130.00)
MBLK	Trichloroethylene (TCE)	ND			
LCS1	Trichlorotrifluoroethane(Freon	4	4.12	103.0	(70.00 - 130.00)
MBLK	Trichlorotrifluoroethane(Freon	ND			
LCS1	Vinyl chloride (VC)	2	2.05	102.5	(70.00 - 130.00)
MBLK	Vinyl chloride (VC)	ND			
LCS1	cis-1,2-Dichloroethylene	4	3.50	87.5	(70.00 - 130.00)
MBLK	cis-1,2-Dichloroethylene	ND			
MBLK	cis-1,3-Dichloropropene	ND			
LCS1	m,p-Xylenes	8	7.56	94.5	(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	3.74	93.5	(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	3.03	75.8	(70.00 - 130.00)
MBLK	trans-1,2-Dichloroethylene	ND			
MBLK	trans-1,3-Dichloropropene	ND			

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Foster Wheeler Environmental, Inc
(continued)

QC Batch #60245 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP/MS	100	104	104.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	103	103.0	(85.00 - 115.00)	0.97
MBLK	Chromium, Total, ICAP/MS	ND		0.0		
MS	Chromium, Total, ICAP/MS	100	105.	105.0	(70.00 - 130.00)	
MSD	Chromium, Total, ICAP/MS	100	108.	108.0	(70.00 - 130.00)	2.8

QC Batch #60253 Lead, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Lead, Total, ICAP/MS	20	20.7	103.5	(85.00 - 115.00)	
LCS2	Lead, Total, ICAP/MS	20	21.1	105.5	(85.00 - 115.00)	1.9
MBLK	Lead, Total, ICAP/MS	ND		0.0		
MS	Lead, Total, ICAP/MS	20	20.3	101.5	(70.00 - 130.00)	
MSD	Lead, Total, ICAP/MS	20	20.4	102.0	(70.00 - 130.00)	0.49

QC Batch #60272 Arsenic, Total, GF

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Arsenic, Total, GF	0.020	0.0203	101.5	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.0227	113.5	(85.00 - 115.00)	11
MBLK	Arsenic, Total, GF	ND				
MS	Arsenic, Total, GF	0.020	0.0216	108.0	(85.00 - 115.00)	
MSD	Arsenic, Total, GF	0.020	0.0218	109.0	(85.00 - 115.00)	0.92

QC Batch #60274 Arsenic, Total, GF

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Arsenic, Total, GF	0.020	0.0216	108.0	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.0209	104.5	(85.00 - 115.00)	3.3
MBLK	Arsenic, Total, GF	ND				

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Foster Wheeler Environmental, Inc
(continued)

MS	Arsenic, Total, GF	0.020	0.0207	103.5	(85.00 - 115.00)	
MSD	Arsenic, Total, GF	0.020	0.0223	111.5	(85.00 - 115.00)	7.4

QC Batch #60291 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP/MS	100	104	104.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	105	105.0	(85.00 - 115.00)	0.96
MBLK	Chromium, Total, ICAP/MS	ND		0.0		
MS	Chromium, Total, ICAP/MS	100	105.	105.0	(70.00 - 130.00)	
MSD	Chromium, Total, ICAP/MS	100	107.	107.0	(70.00 - 130.00)	1.9

QC Batch #60292 Iron, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Iron, Total, ICAP/MS	500	524	104.8	(85.00 - 115.00)	
LCS2	Iron, Total, ICAP/MS	500	524	104.8	(85.00 - 115.00)	0.00
MBLK	Iron, Total, ICAP/MS	ND		0.0		
MS	Iron, Total, ICAP/MS	500	551.	110.2	(70.00 - 130.00)	
MSD	Iron, Total, ICAP/MS	500	533.	106.6	(70.00 - 130.00)	3.3

QC Batch #60293 Lead, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Lead, Total, ICAP/MS	20	21.5	107.5	(85.00 - 115.00)	
LCS2	Lead, Total, ICAP/MS	20	21.0	105.0	(85.00 - 115.00)	2.4
MBLK	Lead, Total, ICAP/MS	ND	0.869	0.0		
MS	Lead, Total, ICAP/MS	20	21.1	105.5	(70.00 - 130.00)	
MSD	Lead, Total, ICAP/MS	20	19.8	99.0	(70.00 - 130.00)	6.4

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Report Summary of positive results, PR32238

			Result	MDL	UNITS
Analyzed	970211124	MW-971-78			
02/18/97	Data Entry		02/21/97		--
Analyzed	970211125	MW-971-77			
02/17/97	Data Entry		02/21/97		--
Analyzed	970211126	MW-971-54			
02/17/97	Data Entry		02/21/97		--
02/17/97	Tetrachloroethylene (PCE)		1.7	.500	UGL
02/21/97	Alkalinity		160	2.000	MGL
02/25/97	Anion Sum		6.69	.001	MEQL
02/25/97	Bicarbonate as HCO3,calculated		195	.001	MGL
02/17/97	Calcium, Flame AA		56	1.000	MGL
02/25/97	Carbonate as CO3, Calculated		1.27	.001	MGL
02/21/97	Cation Sum		6.65	.001	MEQL
02/12/97	Chloride		74	2.000	MGL
03/05/97	Iron, Total, ICAP/MS		290	******	UGL
02/12/97	Lab pH		8.0	.001	UNIT
02/17/97	Magnesium, Flame AA		27	1.000	MGL
02/12/97	Nitrate-N by IC		4.2	.200	MGL
02/17/97	Potassium, Flame AA		2.6	1.000	MGL
02/17/97	Sodium, Flame AA		36	1.000	MGL
02/17/97	Specific Conductance		615	4.000	UMHO
02/12/97	Sulfate		53	4.000	MGL
02/14/97	Total Dissolved Solids		370	10.000	MGL

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Laboratory Report

for

Foster Wheeler Environmental, Inc
611 Anton Boulevard

Suite 800

Costa Mesa , CA 92626

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

MONTGOMERY WATSON LABS.
SUBMITTED ON

MAR 11 1997

Report#: 32258
JPL

MONTGOMERY WATSON LABORATORIES

March 11, 1997

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

Attention: Mark Cutler

Re: Report # 32258 (MW-971-80, 79, 52)

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):
For sample -79, the second internal standard was recovered below 70%. This sample was re-analyzed but in the re-analysis there was methylene chloride contamination in the blank so results from the first analysis were reported (Ref QIR MS-97-003). Due to an instrument failure, sample -52 was re-analyzed past holding time for nitrate (Ref QIR Met 97-07). However the ion balance results indicate that results are reliable.

Samples requiring dilution (with increased MRL's):
Sample-52 was diluted for anions.

Method blanks with compounds detected:
Lead was detected below the CRDL in the method blank.

Other Comments:
PCE was detected in one sample. Nitrate was detected over the MCL in sample-52. Acetone was detected as a TIC in sample-80.

Sincerely,

Andrew Eaton, PhD
Laboratory Director

cc: Judy Novelly (JPL)

a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 818 568 6400
Fax: 818 568 6324

Quality Environmental Analysis

QUALITY INVESTIGATION REPORT

QIR No. MS-97-003

Analysis Date: 2-17-97

Analysis: 524.2

Extraction Date: NA

Matrix: 1

Analyst: COL

Instrument ID: GCMSE

SAMPLES IMPACTED

Lab #	Client ID	Client Name	Lab #	Client ID	Client Name
970212057	MW-971-79	FOSTER WHEELER			

Brief Description: (include reason for non-compliance)

Internal Standard recovered below 70% in this sample (at 66%)

Action Taken: Sample reanalyzed on 2/18/97 but there is Methylene chloride contamination on 2/18/97. Otherwise all IS/Surr OK. (Except for $MeCl_2$), sample is ND.

Impact on Data Quality:

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

Other:

Annotation: Report from first run. Reference re-run

Client Contact:

Extraction:		Date:	
Analyst:	Cecilia Lei	Date:	2/21/97
Group Leader:	Cecilia Lei	Date:	2/21/97
QA Coordinator:		Date:	2/24/97
Project Manager:		Date:	2/21/97

PROPERTY OF MONTGOMERY WATSON LABORATORIES

QUALITY INVESTIGATION REPORT

QIR No. QIR-MZT-97-07

Analysis Date: 2/14/97

Analysis: NO3 NO3DW

Extraction Date:

Matrix: H2O

Analyst: BYW

Instrument ID: IC

SAMPLES IMPACTED

Lab #	Client ID	Client Name	Lab #	Client ID	Client Name
~~970213153-54~~ BYW 970213153-54 970213155		MAYWOOD H2O S. MONTEBELLO	970212058 970213232 970214128	INSERCH ↓	

Brief Description: (include reason for non-compliance)

Autosampler jammed for unknown reason. Run stop ~~at~~ at the middle, so closing check standard didn't get run.
The LCS & MS, MSD was run but at the beggining of the analysis run

Action Taken:

Samples ~~sho~~ BYW need re-run past holding time or re-sample.

Impact on Data Quality: BYW ~~Data Quality~~ Without the closing standard the data is not a defensable data in court. We have tried to schedule the Nitrate and analys. to be run on the same day that they are received so that we have two times shot to get the valid data, however sometimes do to sample load we are pushed to analyzing the samples on the holding time.

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

Other:

Annotation:

Client Contact:

Maywood, S. Mont → Do not report. Do not NA. Martin will delete and we will resample.
Foster Wheeler - Annotate & report as per Mark Cutler

Extraction:		Date:	
Analyst:	[signature]	Date:	2/17/97
Group Leader:	[signature]	Date:	02/17/97
QA Coordinator:	[signature]	Date:	02/1[illegible]/97
Project Manager:	James C. Hein [signature]	Date:	2/18/97 2/18/97

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Laboratory Report #32258

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

Samples Received
12-feb-1997 16:16:15

MW-971-80 (970212056) Sampled on 02/12/97

Regulated VOCs plus Lists 1&3

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	02/17/97	59893	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	02/17/97	59893	(ML/EPA 524.2)	2-Chloroethylvinylether	ND	ug/l	1.0	1
	02/17/97	59893	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	02/17/97	59893	(EPA/SM 524.2)	Benzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1

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Laboratory
Report
#32258

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	02/17/97	59893	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Fluorotrichloromethane(Freon1)	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	02/17/97	59893	(ML524.2/SW8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/l	5.0	1
	02/17/97	59893	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	Acetone	3.1	ug/L		1
			(Surrogate)	1,2-Dichloroethane-d4	98	% Rec		
			(Surrogate)	4-Bromofluorobenzene	89	% Rec		

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
			(Surrogate)	Toluene-d8	96	% Rec		
MW-971-79 (970212057)			**Sampled on 02/12/97**					
03/04/97	03/06/97	60272	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
03/04/97	03/04/97	60245	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	02/12/97	59624	(ML/SW 7196)	Hexavalent chromium	ND	mg/l	0.005	1
03/04/97	03/04/97	60253	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
			Regulated VOCs plus Lists 1&3					
	02/17/97	59893	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	02/17/97	59893	(ML/EPA 524.2)	2-Chloroethylvinylether	ND	ug/l	1.0	1
	02/17/97	59893	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	02/17/97	59893	(EPA/SM 524.2)	Benzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	02/17/97	59893	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Fluorotrichloromethane(Freon1)	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	02/17/97	59893	(ML524.2/SW8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/l	5.0	1
	02/17/97	59893	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None detected	ND			1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
			(Surrogate)	1,2-Dichloroethane-d4	92	% Rec		
			(Surrogate)	4-Bromofluorobenzene	95	% Rec		
			(Surrogate)	Toluene-d8	93	% Rec		
MW-971-52 (970212058) Sampled on 02/12/97								
	02/21/97	59884	(ML/S2320B)	Alkalinity	215	mg/l	2.0	1
	03/09/97		(ML/SM1040)	Anion Sum	8.83	meq/l	0.0010	1
03/04/97	03/06/97	60274	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	02/17/97	59761	(ML/S3111B)	Calcium, Flame AA	93	mg/l	1.0	1
	02/21/97		(ML/SM1040)	Cation Sum	8.82	meq/l	0.0010	1
	02/21/97	59960	(ML/EPA 300)	Chloride	78	mg/l	2.0	2
	02/25/97		(ML/S2320-B)	Carbonate as CO3, Calculated	0.428	mg/l	0.0010	1
03/04/97	03/05/97	60291	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	02/12/97	59624	(ML/SW 7196)	Hexavalent chromium	ND	mg/l	0.005	1
	02/17/97		(ML/S2510B)	Specific Conductance	830	umho/cm	4.0	1
03/04/97	03/05/97	60292	(EPA/ML 200.8)	Iron, Total, ICAP/MS	240	ug/l	100	1
	02/25/97		(ML/S2320B)	Bicarbonate as HCO3,calculated	262	mg/l	0.0010	1
	02/17/97	59751	(ML/S3111B)	Potassium, Flame AA	2.7	mg/l	1.0	1
	02/17/97	59760	(ML/S3111B)	Magnesium, Flame AA	35	mg/l	1.0	1
	02/17/97	59752	(ML/S3111B)	Sodium, Flame AA	28	mg/l	1.0	1
	02/21/97	59965	(ML/EPA 300.0)	Nitrate-N by IC	11	mg/l	0.20	2
03/04/97	03/05/97	60293	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	02/12/97		(ML/S4500H-B)	Lab pH	7.4	Units	0.0010	1
	02/21/97	59964	(ML/EPA 300)	Sulfate	74	mg/l	4.0	2
	02/19/97	59883	(ML/EPA 365.2)	Total phosphorus-P	ND	mg/l	0.050	1
	02/14/97	59758	(ML/S2540C)	Total Dissolved Solids	480	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	02/17/97	59893	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	02/17/97	59893	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	02/17/97	59893	(ML/EPA 524.2)	2-Chloroethylvinylether	ND	ug/l	1.0	1
	02/17/97	59893	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	02/17/97	59893	(EPA/SM 524.2)	Benzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Fluorotrichloromethane(Freon1)	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	02/17/97	59893	(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
	02/17/97	59893	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	02/17/97	59893	(ML524.2/SW8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/l	5.0	1
	02/17/97	59893	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	2.1	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	02/17/97	59893	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	93	% Rec		
			(Surrogate)	4-Bromofluorobenzene	91	% Rec		
			(Surrogate)	Toluene-d8	94	% Rec		

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Report
Comments
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Group Comments

(524) Second internal standard recovered below 70% in sample MW-971-79. This sample was reanalyzed on 2/18/97 but there was methylene chloride contamination on that day. Reference QIR-MS-97-003.

(970212058)
NO3
(Nitrate) Sample 970212058 was analyzed past holding time for Nitrate.

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Foster Wheeler Environmental, Inc

QC Batch #59624 Hexavalent chromium

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Hexavalent chromium	0.050	0.0529	105.8	(78.00 - 118.00)	
LCS2	Hexavalent chromium	0.050	0.0543	108.6	(78.00 - 118.00)	2.6
MBLK	Hexavalent chromium	ND				
MS	Hexavalent chromium	0.050	0.0467	93.4	(80.00 - 120.00)	
MSD	Hexavalent chromium	0.050	0.0446	89.2	(80.00 - 120.00)	4.6

QC Batch #59751 Potassium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Potassium, Flame AA	20	18.5	92.5	(80.00 - 120.00)	
LCS2	Potassium, Flame AA	20	18.5	92.5	(80.00 - 120.00)	0.00
MBLK	Potassium, Flame AA	ND				
MS	Potassium, Flame AA	20	18.9	94.5	(80.00 - 120.00)	
MSD	Potassium, Flame AA	20	18.8	94.0	(80.00 - 120.00)	0.53

QC Batch #59752 Sodium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Sodium, Flame AA	50	50.2	100.4	(90.00 - 110.00)	
LCS2	Sodium, Flame AA	50	49.6	99.2	(90.00 - 110.00)	1.2
MBLK	Sodium, Flame AA	ND				
MS	Sodium, Flame AA	50	50.1	100.2	(80.00 - 120.00)	
MSD	Sodium, Flame AA	50	49.9	99.8	(80.00 - 120.00)	0.40

QC Batch #59758 Total Dissolved Solids

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Total Dissolved Solids	175	174	99.4	(85.00 - 115.00)	
LCS2	Total Dissolved Solids	175	176	100.6	(85.00 - 115.00)	1.1
MBLK	Total Dissolved Solids	ND				

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

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Foster Wheeler Environmental, Inc
(continued)

QC Batch #59760 Magnesium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Magnesium, Flame AA	20	19.1	95.5	(90.00 - 110.00)	
LCS2	Magnesium, Flame AA	20	19.4	97.0	(90.00 - 110.00)	1.6
MBLK	Magnesium, Flame AA	ND				
MS	Magnesium, Flame AA	20	19.7	98.5	(80.00 - 120.00)	
MSD	Magnesium, Flame AA	20	20.2	101.0	(80.00 - 120.00)	2.5

QC Batch #59761 Calcium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Calcium, Flame AA	50	48.9	97.8	(90.00 - 110.00)	
LCS2	Calcium, Flame AA	50	50.3	100.6	(90.00 - 110.00)	2.8
MBLK	Calcium, Flame AA	ND				
MS	Calcium, Flame AA	50	47.5	95.0	(80.00 - 120.00)	
MSD	Calcium, Flame AA	50	49.1	98.2	(80.00 - 120.00)	3.3

QC Batch #59883 Total phosphorus-P

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Total phosphorus-P	0.5	.414	82.8	(80.00 - 120.00)	
LCS2	Total phosphorus-P	0.5	.421	84.2	(80.00 - 120.00)	1.7
MBLK	Total phosphorus-P	ND				
MS	Total phosphorus-P	0.4	.349	87.2	(70.00 - 130.00)	
MSD	Total phosphorus-P	0.4	.323	80.8	(70.00 - 130.00)	7.7

QC Batch #59884 Alkalinity

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Alkalinity	96.2	98.6	102.5	(90.00 - 110.00)	
LCS2	Alkalinity	96.2	97.7	101.6	(90.00 - 110.00)	0.92
MBLK	Alkalinity	ND				

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

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MS	Alkalinity	96.2	97.2	101.0	(80.00 - 120.00)	
MSD	Alkalinity	96.2	99.4	103.3	(80.00 - 120.00)	2.2

QC Batch #59893 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	3.25	81.2	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	4.06	101.5	(70.00 - 130.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	3.64	91.0	(70.00 - 130.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	3.30	82.5	(70.00 - 130.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	2.80	70.0	(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	3.48	87.0	(70.00 - 130.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	4	3.51	87.8	(70.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	4	3.45	86.2	(70.00 - 130.00)	
MBLK	1,2-Dichloropropane	ND				
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	8	7.05	88.1	(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				

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

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Foster Wheeler Environmental, Inc
(continued)

MBLK	Bromochloromethane	ND			
LCS1	Bromodichloromethane	4	3.64	91.0	(70.00 - 130.00)
MBLK	Bromodichloromethane	ND			
LCS1	Bromoform	4	3.47	86.8	(70.00 - 130.00)
MBLK	Bromoform	ND			
MBLK	Bromomethane (Methyl Bromide)	ND			
LCS1	Carbon Tetrachloride	4	3.49	87.2	(70.00 - 130.00)
MBLK	Carbon Tetrachloride	ND			
LCS1	Chlorobenzene	4	3.78	94.5	(70.00 - 130.00)
MBLK	Chlorobenzene	ND			
LCS1	Chlorodibromomethane	4	3.69	92.2	(70.00 - 130.00)
MBLK	Chlorodibromomethane	ND			
MBLK	Chloroethane	ND			
LCS1	Chloroform (Trichloromethane)	4	3.32	83.0	(70.00 - 130.00)
MBLK	Chloroform (Trichloromethane)	ND			
MBLK	Chloromethane(Methyl Chloride)	ND			
MBLK	Dibromomethane	ND			
MBLK	Dichlorodifluoromethane	ND			
LCS1	Dichloromethane	4	3.37	84.2	(70.00 - 130.00)
MBLK	Dichloromethane	ND			
LCS1	Ethyl benzene	4	3.74	93.5	(70.00 - 130.00)
MBLK	Ethyl benzene	ND			
LCS1	Fluorotrichloromethane(Freon1)	2	2.03	101.5	(70.00 - 130.00)
MBLK	Fluorotrichloromethane(Freon1)	ND			
MBLK	Hexachlorobutadiene	ND			
MBLK	Isopropylbenzene	ND			
LCS1	Methyl Tert-butyl ether (MTBE)	4	4.34	108.5	(70.00 - 130.00)
MBLK	Methyl Tert-butyl ether (MTBE)	ND			
MBLK	Naphthalene	ND			
LCS1	Styrene	4	3.93	98.2	(70.00 - 130.00)
MBLK	Styrene	ND			
LCS1	Tetrachloroethylene (PCE)	4	3.82	95.5	(70.00 - 130.00)
MBLK	Tetrachloroethylene (PCE)	ND			
LCS1	Toluene	4	3.57	89.2	(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	4	3.73	93.2	(70.00 - 130.00)

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(continued)

MBLK	Trichlorotrifluoroethane(Freon	ND			
LCS1	Vinyl chloride (VC)	2	1.94	97.0	(70.00 - 130.00)
MBLK	Vinyl chloride (VC)	ND			
LCS1	cis-1,2-Dichloroethylene	4	3.43	85.8	(70.00 - 130.00)
MBLK	cis-1,2-Dichloroethylene	ND			
MBLK	cis-1,3-Dichloropropene	ND			
LCS1	m,p-Xylenes	8	7.90	98.8	(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	3.75	93.8	(70.00 - 130.00)
MBLK	o-Dichlorobenzene (1,2-DCB)	ND			
LCS1	o-Xylene	4	3.85	96.2	(70.00 - 130.00)
MBLK	o-Xylene	ND			
MBLK	p-Chlorotoluene	ND			
LCS1	p-Dichlorobenzene (1,4-DCB)	4	3.72	93.0	(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	2.80	70.0	(70.00 - 130.00)
MBLK	trans-1,2-Dichloroethylene	ND			
MBLK	trans-1,3-Dichloropropene	ND			

QC Batch #59960 Chloride

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Chloride	25	26.0	104.0	(90.00 - 110.00)	
LCS2	Chloride	25	25.9	103.6	(90.00 - 110.00)	0.39
MBLK	Chloride	ND				
MS	Chloride	25	25.7	102.8	(80.00 - 120.00)	
MSD	Chloride	25	25.4	101.6	(80.00 - 120.00)	1.2

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Foster Wheeler Environmental, Inc
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QC Batch #59964 Sulfate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Sulfate	50	52.1	104.2	(90.00 - 110.00)	
LCS2	Sulfate	50	52.1	104.2	(90.00 - 110.00)	0.00
MBLK	Sulfate	ND				
MS	Sulfate	50	53.8	107.6	(70.00 - 130.00)	
MSD	Sulfate	50	53.8	107.6	(70.00 - 130.00)	0.00

QC Batch #59965 Nitrate-N by IC

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Nitrate-N by IC	2.5	2.67	106.8	(90.00 - 110.00)	
LCS2	Nitrate-N by IC	2.5	2.68	107.2	(90.00 - 110.00)	0.37
MBLK	Nitrate-N by IC	ND				
MS	Nitrate-N by IC	2.5	2.50	100.0	(80.00 - 120.00)	
MSD	Nitrate-N by IC	2.5	2.49	99.6	(80.00 - 120.00)	0.40

QC Batch #60245 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP/MS	100	104	104.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	103	103.0	(85.00 - 115.00)	0.97
MBLK	Chromium, Total, ICAP/MS	ND		0.0		
MS	Chromium, Total, ICAP/MS	100	105.	105.0	(70.00 - 130.00)	
MSD	Chromium, Total, ICAP/MS	100	108.	108.0	(70.00 - 130.00)	2.8

QC Batch #60253 Lead, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Lead, Total, ICAP/MS	20	20.7	103.5	(85.00 - 115.00)	
LCS2	Lead, Total, ICAP/MS	20	21.1	105.5	(85.00 - 115.00)	1.9
MBLK	Lead, Total, ICAP/MS	ND		0.0		

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(continued)

MS	Lead, Total, ICAP/MS	20	20.3	101.5	(70.00 - 130.00)	
MSD	Lead, Total, ICAP/MS	20	20.4	102.0	(70.00 - 130.00)	0.49

QC Batch #60272 Arsenic, Total, GF

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Arsenic, Total, GF	0.020	0.0203	101.5	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.0227	113.5	(85.00 - 115.00)	11
MBLK	Arsenic, Total, GF	ND				
MS	Arsenic, Total, GF	0.020	0.0216	108.0	(85.00 - 115.00)	
MSD	Arsenic, Total, GF	0.020	0.0218	109.0	(85.00 - 115.00)	0.92

QC Batch #60274 Arsenic, Total, GF

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Arsenic, Total, GF	0.020	0.0216	108.0	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.0209	104.5	(85.00 - 115.00)	3.3
MBLK	Arsenic, Total, GF	ND				
MS	Arsenic, Total, GF	0.020	0.0207	103.5	(85.00 - 115.00)	
MSD	Arsenic, Total, GF	0.020	0.0223	111.5	(85.00 - 115.00)	7.4

QC Batch #60291 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP/MS	100	104	104.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	105	105.0	(85.00 - 115.00)	0.96
MBLK	Chromium, Total, ICAP/MS	ND		0.0		
MS	Chromium, Total, ICAP/MS	100	105.	105.0	(70.00 - 130.00)	
MSD	Chromium, Total, ICAP/MS	100	107.	107.0	(70.00 - 130.00)	1.9

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Foster Wheeler Environmental, Inc
(continued)

QC Batch #60292 Iron, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Iron, Total, ICAP/MS	500	524	104.8	(85.00 - 115.00)	
LCS2	Iron, Total, ICAP/MS	500	524	104.8	(85.00 - 115.00)	0.00
MBLK	Iron, Total, ICAP/MS	ND		0.0		
MS	Iron, Total, ICAP/MS	500	551.	110.2	(70.00 - 130.00)	
MSD	Iron, Total, ICAP/MS	500	533.	106.6	(70.00 - 130.00)	3.3

QC Batch #60293 Lead, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Lead, Total, ICAP/MS	20	21.5	107.5	(85.00 - 115.00)	
LCS2	Lead, Total, ICAP/MS	20	21.0	105.0	(85.00 - 115.00)	2.4
MBLK	Lead, Total, ICAP/MS	ND	0.869	0.0		
MS	Lead, Total, ICAP/MS	20	21.1	105.5	(70.00 - 130.00)	
MSD	Lead, Total, ICAP/MS	20	19.8	99.0	(70.00 - 130.00)	6.4

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Report Summary of positive results, PR32258

			Result	MDL	UNITS
Analyzed	970212056	MW-971-80			
02/17/97	Data Entry		02/21/97		--
Analyzed	970212057	MW-971-79			
02/17/97	Data Entry		02/21/97		--
Analyzed	970212058	MW-971-52			
02/17/97	Data Entry		02/21/97		--
02/17/97	Tetrachloroethylene (PCE)		2.1	.500	UGL
02/21/97	Alkalinity		215	2.000	MGL
03/09/97	Anion Sum		8.83	.001	MEQL
02/25/97	Bicarbonate as HCO3,calculated		262	.001	MGL
02/17/97	Calcium, Flame AA		93	1.000	MGL
02/25/97	Carbonate as CO3, Calculated		0.428	.001	MGL
02/21/97	Cation Sum		8.82	.001	MEQL
02/21/97	Chloride		78	2.000	MGL
03/05/97	Iron, Total, ICAP/MS		240	******	UGL
02/12/97	Lab pH		7.4	.001	UNIT
02/17/97	Magnesium, Flame AA		35	1.000	MGL
02/21/97	Nitrate-N by IC		11	.200	MGL
02/17/97	Potassium, Flame AA		2.7	1.000	MGL
02/17/97	Sodium, Flame AA		28	1.000	MGL
02/17/97	Specific Conductance		830	4.000	UMHO
02/21/97	Sulfate		74	4.000	MGL
02/14/97	Total Dissolved Solids		480	10.000	MGL

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Laboratory Report

for

Foster Wheeler Environmental, Inc
611 Anton Boulevard

Suite 800

Costa Mesa , CA 92626

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

MONTGOMERY WATSON LABS.
SUBMITTED ON
ADE*
MAR 11 1997

Report#: 32310
JPL

MONTGOMERY WATSON LABORATORIES

March 11, 1997

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

Attention: Mark Cutler

Re: Report # 32310 (MW-971-82,81, 50)

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):
All volatiles were analyzed within holding time with acceptable IS and surrogate recoveries. Due to an instrument failure, sample -50 was re-analyzed past holding time for nitrate. However the ion balance results indicate that results are reliable.

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

Method blanks with compounds detected:
Lead was detected in the method blank below the CRDL.

Other Comments:
Acetone was detected as a TIC in sample -81. Methylene chloride was detected in sample -82 and confirmed through analysis of the second vial.

Sincerely,

Andrew Eaton, PhD
Laboratory Director

cc: Judy Novelly (JPL)

a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 818 568 6400
Fax: 818 568 6324

Quality Environmental Analysis

QUALITY INVESTIGATION REPORT

QIR No. QIR-MET-97-07

Analysis Date: 2/14/97

Analysis: NO3 NO3DL

Extraction Date:

Matrix: H2O

Analyst: BYW

Instrument ID: IC

SAMPLES IMPACTED

Lab #	Client ID	Client Name	Lab #	Client ID	Client Name
~~970213153-54~~ BYW 970213153-54 970213155		MAYWOOD H2O S. MONTEBELLO	970212058 970213252 970214128	INSTECH ↓	

Brief Description: (include reason for non-compliance)

Autosampler jammed for unknown reason. Run stop ~~at~~ at the middle, so closing check standard didn't get run.
The LCS & MS, MSD was run but at the beggining of the analysis run

Action Taken:

Samples ~~also~~ BYW need re-run past holding time or re-sample.

Impact on Data Quality: BYW Without the closing standard the data is not a defensable ~~Data Quality~~ data in court. We have tried to schedule the Nitrate and analys to be run on the same day that they are received so that we have two times shot to get the val. data, however sometimes do to sample load we are pushed to analyzing the samples on the holding time.

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

Other:

Annotation:

Client Contact:

Maywood, S. Mont → Do not report. Do not NA. Martin will delete and we will resample.
Foster Wheeler - Annotate & report as per Mark Cutler

Extraction:		Date:	
Analyst:	[signature]	Date:	2/17/97
Group Leader:	[signature]	Date:	02/17/97
QA Coordinator:	[signature]	Date:	02/1[illegible]/97
Project Manager:	James C. Hein [signature]	Date:	2/18/97 2/18/97

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Laboratory
Report
#32310

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

Samples Received
13-feb-1997 17:55:59

MW-971-82 (970213230) Sampled on 02/13/97

Regulated VOCs plus Lists 1&3

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	02/18/97	59902	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	02/18/97	59902	(ML/EPA 524.2)	2-Chloroethylvinylether	ND	ug/l	1.0	1
	02/18/97	59902	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	02/18/97	59902	(EPA/SM 524.2)	Benzene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	02/18/97	59902	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Dichloromethane	0.6	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Fluorotrichloromethane(Freon1)	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	02/18/97	59902	(ML524.2/SW8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/l	5.0	1
	02/18/97	59902	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	02/18/97	59902	(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	89	% Rec		

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
			(Surrogate)	Toluene-d8	93	% Rec		
MW-971-81 (970213231)			**Sampled on 02/13/97**					
03/04/97	03/06/97	60272	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
03/04/97	03/04/97	60245	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	02/14/97	59787	(ML/SW 7196)	Hexavalent chromium	ND	mg/l	0.005	1
03/04/97	03/04/97	60253	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
			Regulated VOCs plus Lists 1&3					
	02/19/97	59906	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	02/19/97	59906	(ML/EPA 524.2)	2-Chloroethylvinylether	ND	ug/l	1.0	1
	02/19/97	59906	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	02/19/97	59906	(EPA/SM 524.2)	Benzene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	02/19/97	59906	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	Fluorotrichloromethane(Freon1)	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	02/19/97	59906	(ML524.2/SW8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/l	5.0	1
	02/19/97	59906	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	Acetone	4.2	ug/L		1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
			(Surrogate)	1,2-Dichloroethane-d4	103	% Rec		
			(Surrogate)	4-Bromofluorobenzene	82	% Rec		
			(Surrogate)	Toluene-d8	97	% Rec		
MW-971-50 (970213232)			**Sampled on 02/13/97**					
	02/21/97	59884	(ML/S2320B)	Alkalinity	125	mg/l	2.0	1
	03/09/97		(ML/SM1040)	Anion Sum	3.31	meq/l	0.0010	1
03/04/97	03/06/97	60274	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	02/17/97	59761	(ML/S3111B)	Calcium, Flame AA	42	mg/l	1.0	1
	02/21/97		(ML/SM1040)	Cation Sum	3.63	meq/l	0.0010	1
	02/21/97	59960	(ML/EPA 300)	Chloride	6.2	mg/l	1.0	1
	02/25/97		(ML/S2320-B)	Carbonate as CO3, Calculated	0.312	mg/l	0.0010	1
03/04/97	03/05/97	60291	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	02/14/97	59787	(ML/SW 7196)	Hexavalent chromium	ND	mg/l	0.005	1
	02/17/97		(ML/S2510B)	Specific Conductance	320	umho/cm	4.0	1
03/04/97	03/05/97	60292	(EPA/ML 200.8)	Iron, Total, ICAP/MS	410	ug/l	100	1
	02/25/97		(ML/S2320B)	Bicarbonate as HCO3,calculated	152	mg/l	0.0010	1
	02/17/97	59751	(ML/S3111B)	Potassium, Flame AA	2.4	mg/l	1.0	1
	02/17/97	59760	(ML/S3111B)	Magnesium, Flame AA	12	mg/l	1.0	1
	02/17/97	59752	(ML/S3111B)	Sodium, Flame AA	11	mg/l	1.0	1
	02/21/97	59965	(ML/EPA 300.0)	Nitrate-N by IC	0.72	mg/l	0.10	1
03/04/97	03/05/97	60293	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	02/18/97		(ML/S4500H-B)	Lab pH	7.5	Units	0.0010	1
	02/21/97	59964	(ML/EPA 300)	Sulfate	28	mg/l	2.0	1
	02/19/97	59883	(ML/EPA 365.2)	Total phosphorus-P	ND	mg/l	0.050	1
	02/14/97	59758	(ML/S2540C)	Total Dissolved Solids	210	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	02/18/97	59902	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	02/18/97	59902	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	02/18/97	59902	(ML/EPA 524.2)	2-Chloroethylvinylether	ND	ug/l	1.0	1
	02/18/97	59902	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	02/18/97	59902	(EPA/SM 524.2)	Benzene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Chloroform (Trichloromethane)	0.8	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Fluorotrichloromethane(Freon1)	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	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
	02/18/97	59902	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	02/18/97	59902	(ML524.2/SW8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/l	5.0	1
	02/18/97	59902	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	100	% Rec		
			(Surrogate)	4-Bromofluorobenzene	86	% Rec		
			(Surrogate)	Toluene-d8	95	% Rec		

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Report
Comments
#32310

Group Comments

(524) Sample MW-971-82 was reanalyzed on 2/19/97 and methyle ne chloride was confirmed.
(Nitrate) Sample was analyzed past holding time.

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Laboratory
QC Report
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Foster Wheeler Environmental, Inc

QC Batch #59751 Potassium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Potassium, Flame AA	20	18.5	92.5	(80.00 - 120.00)	
LCS2	Potassium, Flame AA	20	18.5	92.5	(80.00 - 120.00)	0.00
MBLK	Potassium, Flame AA	ND				
MS	Potassium, Flame AA	20	18.9	94.5	(80.00 - 120.00)	
MSD	Potassium, Flame AA	20	18.8	94.0	(80.00 - 120.00)	0.53

QC Batch #59752 Sodium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Sodium, Flame AA	50	50.2	100.4	(90.00 - 110.00)	
LCS2	Sodium, Flame AA	50	49.6	99.2	(90.00 - 110.00)	1.2
MBLK	Sodium, Flame AA	ND				
MS	Sodium, Flame AA	50	50.1	100.2	(80.00 - 120.00)	
MSD	Sodium, Flame AA	50	49.9	99.8	(80.00 - 120.00)	0.40

QC Batch #59758 Total Dissolved Solids

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Total Dissolved Solids	175	174	99.4	(85.00 - 115.00)	
LCS2	Total Dissolved Solids	175	176	100.6	(85.00 - 115.00)	1.1
MBLK	Total Dissolved Solids	ND				

QC Batch #59760 Magnesium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Magnesium, Flame AA	20	19.1	95.5	(90.00 - 110.00)	
LCS2	Magnesium, Flame AA	20	19.4	97.0	(90.00 - 110.00)	1.6
MBLK	Magnesium, Flame AA	ND				
MS	Magnesium, Flame AA	20	19.7	98.5	(80.00 - 120.00)	
MSD	Magnesium, Flame AA	20	20.2	101.0	(80.00 - 120.00)	2.5

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

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Foster Wheeler Environmental, Inc
(continued)

QC Batch #59761 Calcium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Calcium, Flame AA	50	48.9	97.8	(90.00 - 110.00)	
LCS2	Calcium, Flame AA	50	50.3	100.6	(90.00 - 110.00)	2.8
MBLK	Calcium, Flame AA	ND				
MS	Calcium, Flame AA	50	47.5	95.0	(80.00 - 120.00)	
MSD	Calcium, Flame AA	50	49.1	98.2	(80.00 - 120.00)	3.3

QC Batch #59787 Hexavalent chromium

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Hexavalent chromium	0.050	0.0479	95.8	(78.00 - 118.00)	
LCS2	Hexavalent chromium	0.050	0.0458	91.6	(78.00 - 118.00)	4.5
MBLK	Hexavalent chromium	ND				
MS	Hexavalent chromium	0.050	0.0479	95.8	(80.00 - 120.00)	
MSD	Hexavalent chromium	0.050	0.0479	95.8	(80.00 - 120.00)	0.00

QC Batch #59883 Total phosphorus-P

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Total phosphorus-P	0.5	.414	82.8	(80.00 - 120.00)	
LCS2	Total phosphorus-P	0.5	.421	84.2	(80.00 - 120.00)	1.7
MBLK	Total phosphorus-P	ND				
MS	Total phosphorus-P	0.4	.349	87.2	(70.00 - 130.00)	
MSD	Total phosphorus-P	0.4	.323	80.8	(70.00 - 130.00)	7.7

QC Batch #59884 Alkalinity

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Alkalinity	96.2	98.6	102.5	(90.00 - 110.00)	
LCS2	Alkalinity	96.2	97.7	101.6	(90.00 - 110.00)	0.92
MBLK	Alkalinity	ND				

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MS	Alkalinity	96.2	97.2	101.0	(80.00 - 120.00)	
MSD	Alkalinity	96.2	99.4	103.3	(80.00 - 120.00)	2.2

QC Batch #59902 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	3.50	87.5	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	3.84	96.0	(70.00 - 130.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	3.30	82.5	(70.00 - 130.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	3.45	86.2	(70.00 - 130.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	3.09	77.2	(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	3.34	83.5	(70.00 - 130.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	4	3.42	85.5	(70.00 - 130.00)	
MBLK	1,2-Dichloroethane	ND				
LCS1	1,2-Dichloropropane	4	3.22	80.5	(70.00 - 130.00)	
MBLK	1,2-Dichloropropane	ND				
MBLK	1,3,5-Trimethylbenzene	ND				
LCS1	1,3-Dichloropropane	8	6.35	79.4	(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	3.46	86.5	(70.00 - 130.00)	
MBLK	Benzene	ND				
MBLK	Bromobenzene	ND				

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

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MBLK	Bromochloromethane	ND			
LCS1	Bromodichloromethane	4	3.55	88.8	(70.00 - 130.00)
MBLK	Bromodichloromethane	ND			
LCS1	Bromoform	4	3.28	82.0	(70.00 - 130.00)
MBLK	Bromoform	ND			
MBLK	Bromomethane (Methyl Bromide)	ND			
LCS1	Carbon Tetrachloride	4	3.59	89.8	(70.00 - 130.00)
MBLK	Carbon Tetrachloride	ND			
LCS1	Chlorobenzene	4	3.61	90.2	(70.00 - 130.00)
MBLK	Chlorobenzene	ND			
LCS1	Chlorodibromomethane	4	3.30	82.5	(70.00 - 130.00)
MBLK	Chlorodibromomethane	ND			
MBLK	Chloroethane	ND			
LCS1	Chloroform (Trichloromethane)	4	3.53	88.2	(70.00 - 130.00)
MBLK	Chloroform (Trichloromethane)	ND			
MBLK	Chloromethane(Methyl Chloride)	ND			
MBLK	Dibromomethane	ND			
MBLK	Dichlorodifluoromethane	ND			
LCS1	Dichloromethane	4	3.36	84.0	(70.00 - 130.00)
MBLK	Dichloromethane	ND			
LCS1	Ethyl benzene	4	3.57	89.2	(70.00 - 130.00)
MBLK	Ethyl benzene	ND			
LCS1	Fluorotrichloromethane(Freon1)	2	2.27	113.5	(70.00 - 130.00)
MBLK	Fluorotrichloromethane(Freon1)	ND			
MBLK	Hexachlorobutadiene	ND			
MBLK	Isopropylbenzene	ND			
LCS1	Methyl Tert-butyl ether (MTBE)	4	4.10	102.5	(70.00 - 130.00)
MBLK	Methyl Tert-butyl ether (MTBE)	ND			
MBLK	Naphthalene	ND			
LCS1	Styrene	4	3.67	91.8	(70.00 - 130.00)
MBLK	Styrene	ND			
LCS1	Tetrachloroethylene (PCE)	4	3.70	92.5	(70.00 - 130.00)
MBLK	Tetrachloroethylene (PCE)	ND			
LCS1	Toluene	4	3.46	86.5	(70.00 - 130.00)
MBLK	Toluene	ND			
LCS1	Trichloroethylene (TCE)	4	3.55	88.8	(70.00 - 130.00)
MBLK	Trichloroethylene (TCE)	ND			
LCS1	Trichlorotrifluoroethane(Freon	4	4.12	103.0	(70.00 - 130.00)

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MBLK	Trichlorotrifluoroethane(Freon	ND			
LCS1	Vinyl chloride (VC)	2	2.05	102.5	(70.00 - 130.00)
MBLK	Vinyl chloride (VC)	ND			
LCS1	cis-1,2-Dichloroethylene	4	3.50	87.5	(70.00 - 130.00)
MBLK	cis-1,2-Dichloroethylene	ND			
MBLK	cis-1,3-Dichloropropene	ND			
LCS1	m,p-Xylenes	8	7.56	94.5	(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	3.74	93.5	(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	3.03	75.8	(70.00 - 130.00)
MBLK	trans-1,2-Dichloroethylene	ND			
MBLK	trans-1,3-Dichloropropene	ND			

QC Batch #59906 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	3.57	89.2	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	4.13	103.2	(70.00 - 130.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	3.49	87.2	(70.00 - 130.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	3.44	86.0	(70.00 - 130.00)	

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MBLK	1,1-Dichloroethane	ND			
LCS1	1,1-Dichloroethylene	4	3.07	76.8	(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	3.71	92.8	(70.00 - 130.00)
MBLK	1,2,4-Trichlorobenzene	ND			
MBLK	1,2,4-Trimethylbenzene	ND			
LCS1	1,2-Dichloroethane	4	3.76	94.0	(70.00 - 130.00)
MBLK	1,2-Dichloroethane	ND			
LCS1	1,2-Dichloropropane	4	3.28	82.0	(70.00 - 130.00)
MBLK	1,2-Dichloropropane	ND			
MBLK	1,3,5-Trimethylbenzene	ND			
LCS1	1,3-Dichloropropane	8	6.57	82.1	(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	3.47	86.8	(70.00 - 130.00)
MBLK	Benzene	ND			
MBLK	Bromobenzene	ND			
MBLK	Bromochloromethane	ND			
LCS1	Bromodichloromethane	4	3.66	91.5	(70.00 - 130.00)
MBLK	Bromodichloromethane	ND			
LCS1	Bromoform	4	3.59	89.8	(70.00 - 130.00)
MBLK	Bromoform	ND			
MBLK	Bromomethane (Methyl Bromide)	ND			
LCS1	Carbon Tetrachloride	4	3.82	95.5	(70.00 - 130.00)
MBLK	Carbon Tetrachloride	ND			
LCS1	Chlorobenzene	4	3.72	93.0	(70.00 - 130.00)
MBLK	Chlorobenzene	ND			
LCS1	Chlorodibromomethane	4	3.88	97.0	(70.00 - 130.00)
MBLK	Chlorodibromomethane	ND			
MBLK	Chloroethane	ND			
LCS1	Chloroform (Trichloromethane)	4	3.70	92.5	(70.00 - 130.00)
MBLK	Chloroform (Trichloromethane)	ND			

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MBLK	Chloromethane(Methyl Chloride)	ND			
MBLK	Dibromomethane	ND			
MBLK	Dichlorodifluoromethane	ND			
LCS1	Dichloromethane	4	3.45	86.2	(70.00 - 130.00)
MBLK	Dichloromethane	ND			
LCS1	Ethyl benzene	4	3.56	89.0	(70.00 - 130.00)
MBLK	Ethyl benzene	ND			
LCS1	Fluorotrichloromethane(Freon1)	2	2.36	118.0	(70.00 - 130.00)
MBLK	Fluorotrichloromethane(Freon1)	ND			
MBLK	Hexachlorobutadiene	ND			
MBLK	Isopropylbenzene	ND			
LCS1	Methyl Tert-butyl ether (MTBE)	4	3.65	91.2	(70.00 - 130.00)
MBLK	Methyl Tert-butyl ether (MTBE)	ND			
MBLK	Naphthalene	ND			
LCS1	Styrene	4	3.84	96.0	(70.00 - 130.00)
MBLK	Styrene	ND			
LCS1	Tetrachloroethylene (PCE)	4	4.12	103.0	(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	3.78	94.5	(70.00 - 130.00)
MBLK	Trichloroethylene (TCE)	ND			
LCS1	Trichlorotrifluoroethane(Freon	4	4.08	102.0	(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	3.66	91.5	(70.00 - 130.00)
MBLK	cis-1,2-Dichloroethylene	ND			
MBLK	cis-1,3-Dichloropropene	ND			
LCS1	m,p-Xylenes	8	7.59	94.9	(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	3.78	94.5	(70.00 - 130.00)
MBLK	o-Dichlorobenzene (1,2-DCB)	ND			
LCS1	o-Xylene	4	3.78	94.5	(70.00 - 130.00)

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MBLK	o-Xylene	ND			
MBLK	p-Chlorotoluene	ND			
LCS1	p-Dichlorobenzene (1,4-DCB)	4	3.64	91.0	(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	3.02	75.5	(70.00 - 130.00)
MBLK	trans-1,2-Dichloroethylene	ND			
MBLK	trans-1,3-Dichloropropene	ND			

QC Batch #59960 Chloride

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Chloride	25	26.0	104.0	(90.00 - 110.00)	
LCS2	Chloride	25	25.9	103.6	(90.00 - 110.00)	0.39
MBLK	Chloride	ND				
MS	Chloride	25	25.7	102.8	(80.00 - 120.00)	
MSD	Chloride	25	25.4	101.6	(80.00 - 120.00)	1.2

QC Batch #59964 Sulfate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Sulfate	50	52.1	104.2	(90.00 - 110.00)	
LCS2	Sulfate	50	52.1	104.2	(90.00 - 110.00)	0.00
MBLK	Sulfate	ND				
MS	Sulfate	50	53.8	107.6	(70.00 - 130.00)	
MSD	Sulfate	50	53.8	107.6	(70.00 - 130.00)	0.00

QC Batch #59965 Nitrate-N by IC

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Nitrate-N by IC	2.5	2.67	106.8	(90.00 - 110.00)	
LCS2	Nitrate-N by IC	2.5	2.68	107.2	(90.00 - 110.00)	0.37
MBLK	Nitrate-N by IC	ND				

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

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Foster Wheeler Environmental, Inc
(continued)

MS	Nitrate-N by IC	2.5	2.50	100.0	(80.00 - 120.00)	
MSD	Nitrate-N by IC	2.5	2.49	99.6	(80.00 - 120.00)	0.40

QC Batch #60245 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP/MS	100	104	104.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	103	103.0	(85.00 - 115.00)	0.97
MBLK	Chromium, Total, ICAP/MS	ND		0.0		
MS	Chromium, Total, ICAP/MS	100	105.	105.0	(70.00 - 130.00)	
MSD	Chromium, Total, ICAP/MS	100	108.	108.0	(70.00 - 130.00)	2.8

QC Batch #60253 Lead, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Lead, Total, ICAP/MS	20	20.7	103.5	(85.00 - 115.00)	
LCS2	Lead, Total, ICAP/MS	20	21.1	105.5	(85.00 - 115.00)	1.9
MBLK	Lead, Total, ICAP/MS	ND		0.0		
MS	Lead, Total, ICAP/MS	20	20.3	101.5	(70.00 - 130.00)	
MSD	Lead, Total, ICAP/MS	20	20.4	102.0	(70.00 - 130.00)	0.49

QC Batch #60272 Arsenic, Total, GF

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Arsenic, Total, GF	0.020	0.0203	101.5	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.0227	113.5	(85.00 - 115.00)	11
MBLK	Arsenic, Total, GF	ND				
MS	Arsenic, Total, GF	0.020	0.0216	108.0	(85.00 - 115.00)	
MSD	Arsenic, Total, GF	0.020	0.0218	109.0	(85.00 - 115.00)	0.92

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

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Foster Wheeler Environmental, Inc
(continued)

QC Batch #60274 Arsenic, Total, GF

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Arsenic, Total, GF	0.020	0.0216	108.0	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.0209	104.5	(85.00 - 115.00)	3.3
MBLK	Arsenic, Total, GF	ND				
MS	Arsenic, Total, GF	0.020	0.0207	103.5	(85.00 - 115.00)	
MSD	Arsenic, Total, GF	0.020	0.0223	111.5	(85.00 - 115.00)	7.4

QC Batch #60291 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP/MS	100	104	104.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	105	105.0	(85.00 - 115.00)	0.96
MBLK	Chromium, Total, ICAP/MS	ND		0.0		
MS	Chromium, Total, ICAP/MS	100	105.	105.0	(70.00 - 130.00)	
MSD	Chromium, Total, ICAP/MS	100	107.	107.0	(70.00 - 130.00)	1.9

QC Batch #60292 Iron, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Iron, Total, ICAP/MS	500	524	104.8	(85.00 - 115.00)	
LCS2	Iron, Total, ICAP/MS	500	524	104.8	(85.00 - 115.00)	0.00
MBLK	Iron, Total, ICAP/MS	ND		0.0		
MS	Iron, Total, ICAP/MS	500	551.	110.2	(70.00 - 130.00)	
MSD	Iron, Total, ICAP/MS	500	533.	106.6	(70.00 - 130.00)	3.3

QC Batch #60293 Lead, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Lead, Total, ICAP/MS	20	21.5	107.5	(85.00 - 115.00)	
LCS2	Lead, Total, ICAP/MS	20	21.0	105.0	(85.00 - 115.00)	2.4
MBLK	Lead, Total, ICAP/MS	ND	0.869	0.0		

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

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MS	Lead, Total, ICAP/MS	20	21.1	105.5	(70.00 - 130.00)	
MSD	Lead, Total, ICAP/MS	20	19.8	99.0	(70.00 - 130.00)	6.4

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

Report Summary of positive results, PR32310

			Result	MDL	UNITS
Analyzed	970213230	MW-971-82			
02/18/97	Data Entry		02/21/97		--
02/18/97	Dichloromethane		0.6	.500	UGL
Analyzed	970213231	MW-971-81			
02/19/97	Data Entry		021/22/97		--
Analyzed	970213232	MW-971-50			
02/18/97	Chloroform (Trichloromethane)		0.8	.500	UGL
02/18/97	Data Entry		02/21/97		--
02/21/97	Alkalinity		125	2.000	MGL
03/09/97	Anion Sum		3.31	.001	MEQL
02/25/97	Bicarbonate as HCO3,calculated		152	.001	MGL
02/17/97	Calcium, Flame AA		42	1.000	MGL
02/25/97	Carbonate as CO3, Calculated		0.312	.001	MGL
02/21/97	Cation Sum		3.63	.001	MEQL
02/21/97	Chloride		6.2	1.000	MGL
03/05/97	Iron, Total, ICAP/MS		410	******	UGL
02/18/97	Lab pH		7.5	.001	UNIT
02/17/97	Magnesium, Flame AA		12	1.000	MGL
02/21/97	Nitrate-N by IC		0.72	.100	MGL
02/17/97	Potassium, Flame AA		2.4	1.000	MGL
02/17/97	Sodium, Flame AA		11	1.000	MGL
02/17/97	Specific Conductance		320	4.000	UMHO
02/21/97	Sulfate		28	2.000	MGL
02/14/97	Total Dissolved Solids		210	10.000	MGL

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Laboratory Report

for

Foster Wheeler Environmental, Inc
611 Anton Boulevard

Suite 800

Costa Mesa , CA 92626

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

MONTGOMERY WATSON LABS.
SUBMITTED ON

MAR 11 1997

Report#: 32334
JPL

MONTGOMERY WATSON LABORATORIES

March 11, 1997

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

Attention: Mark Cutler

Re: Report # 32334 (MW-971-84,83,53)

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):
All volatiles were analyzed within holding time with acceptable IS and surrogate recoveries. Nitrate was reanalyzed past holding time in sample -53 due to an autosampler jam (ref QIR MET-97-07).
Samples requiring dilution (with increased MRL's):
Anions by ion chromatography were diluted in sample -53.
Method blanks with compounds detected:
Lead was detected in the method blank below the CRDL.
Other Comments:
Lead was detected in sample -53.

Sincerely,

Andrew Eaton, PhD
Laboratory Director

cc: Judy Novelly (JPL)

a Division of Montgomery Watson Americas, Inc.
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Quality Environmental Analysis

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Laboratory
Report
#32334

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

Samples Received
14-feb-1997 15:20:45

MW-971-84 (970214126) Sampled on 02/14/97

Regulated VOCs plus Lists 1&3

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	02/19/97	59906	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	02/19/97	59906	(ML/EPA 524.2)	2-Chloroethylvinylether	ND	ug/l	1.0	1
	02/19/97	59906	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	02/19/97	59906	(EPA/SM 524.2)	Benzene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1

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Laboratory
Report
#32334

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	02/19/97	59906	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	Fluorotrichloromethane(Freon1)	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	02/19/97	59906	(ML524.2/SW8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/l	5.0	1
	02/19/97	59906	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	02/19/97	59906	(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	88	% Rec		

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
			(Surrogate)	Toluene-d8	96	% Rec		
MW-971-83 (970214127)			**Sampled on 02/14/97**					
03/04/97	03/06/97	60272	(S3113B/E200.9)	**Arsenic, Total, GF**	ND	mg/l	0.005	1
03/04/97	03/04/97	60245	(EPA/MS 200.8)	**Chromium, Total, ICAP/MS**	ND	ug/l	10	1
	02/14/97	59787	(ML/SW 7196)	**Hexavalent chromium**	ND	mg/l	0.005	1
03/04/97	03/04/97	60253	(EPA/ML 200.8)	**Lead, Total, ICAP/MS**	ND	ug/l	2.0	1
			Regulated VOCs plus Lists 1&3					
	02/19/97	59906	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	02/19/97	59906	(ML/EPA 524.2)	2-Chloroethylvinylether	ND	ug/l	1.0	1
	02/19/97	59906	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	02/19/97	59906	(EPA/SM 524.2)	Benzene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1

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Laboratory
Report
#32334

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	02/19/97	59906	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	Fluorotrichloromethane(Freon1)	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	02/19/97	59906	(ML524.2/SW8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/l	5.0	1
	02/19/97	59906	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	02/19/97	59906	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
			(Surrogate)	1,2-Dichloroethane-d4	100	% Rec		
			(Surrogate)	4-Bromofluorobenzene	85	% Rec		
			(Surrogate)	Toluene-d8	95	% Rec		
MW-971-53 (970214128) Sampled on 02/14/97								
	02/21/97	59884	(ML/S2320B)	Alkalinity	190	mg/l	2.0	1
	03/09/97		(ML/SM1040)	Anion Sum	6.24	meq/l	0.0010	1
03/04/97	03/06/97	60274	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	02/17/97	59761	(ML/S3111B)	Calcium, Flame AA	56	mg/l	1.0	1
	02/21/97		(ML/SM1040)	Cation Sum	6.26	meq/l	0.0010	1
	02/21/97	59960	(ML/EPA 300)	Chloride	39	mg/l	2.0	2
	02/25/97		(ML/S2320-B)	Carbonate as CO3, Calculated	1.50	mg/l	0.0010	1
03/04/97	03/05/97	60291	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	02/14/97	59787	(ML/SW 7196)	Hexavalent chromium	ND	mg/l	0.005	1
	02/17/97		(ML/S2510B)	Specific Conductance	375	umho/cm	4.0	1
03/04/97	03/05/97	60292	(EPA/ML 200.8)	Iron, Total, ICAP/MS	290	ug/l	100	1
	02/25/97		(ML/S2320B)	Bicarbonate as HCO3,calculated	231	mg/l	0.0010	1
	02/17/97	59751	(ML/S3111B)	Potassium, Flame AA	2.4	mg/l	1.0	1
	02/17/97	59760	(ML/S3111B)	Magnesium, Flame AA	27	mg/l	1.0	1
	02/17/97	59752	(ML/S3111B)	Sodium, Flame AA	27	mg/l	1.0	1
	02/21/97	59965	(ML/EPA 300.0)	Nitrate-N by IC	4.8	mg/l	0.20	2
03/04/97	03/05/97	60293	(EPA/ML 200.8)	Lead, Total, ICAP/MS	2.5	ug/l	2.0	1
	02/18/97		(ML/S4500H-B)	Lab pH	8.0	Units	0.0010	1
	02/21/97	59964	(ML/EPA 300)	Sulfate	48	mg/l	4.0	2
	02/19/97	59883	(ML/EPA 365.2)	Total phosphorus-P	ND	mg/l	0.050	1
	02/21/97	60020	(ML/S2540C)	Total Dissolved Solids	350	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	02/18/97	59902	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	02/18/97	59902	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	02/18/97	59902	(ML/EPA 524.2)	2-Chloroethylvinylether	ND	ug/l	1.0	1
	02/18/97	59902	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	02/18/97	59902	(EPA/SM 524.2)	Benzene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Chloroform (Trichloromethane)	1.5	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Fluorotrichloromethane(Freon1)	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	02/18/97	59902	(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
	02/18/97	59902	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	02/18/97	59902	(ML524.2/SW8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/l	5.0	1
	02/18/97	59902	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	0.6	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Trichloroethylene (TCE)	1.1	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	02/18/97	59902	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	02/18/97	59902	(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	87	% Rec		
			(Surrogate)	Toluene-d8	95	% Rec		

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(970214128)
NO3
(Nitrate) Sample 970214128 was analyzed past holding time.

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Laboratory QC Report #32334

Foster Wheeler Environmental, Inc

QC Batch #59751 Potassium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Potassium, Flame AA	20	18.5	92.5	(80.00 - 120.00)	
LCS2	Potassium, Flame AA	20	18.5	92.5	(80.00 - 120.00)	0.00
MBLK	Potassium, Flame AA	ND				
MS	Potassium, Flame AA	20	18.9	94.5	(80.00 - 120.00)	
MSD	Potassium, Flame AA	20	18.8	94.0	(80.00 - 120.00)	0.53

QC Batch #59752 Sodium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Sodium, Flame AA	50	50.2	100.4	(90.00 - 110.00)	
LCS2	Sodium, Flame AA	50	49.6	99.2	(90.00 - 110.00)	1.2
MBLK	Sodium, Flame AA	ND				
MS	Sodium, Flame AA	50	50.1	100.2	(80.00 - 120.00)	
MSD	Sodium, Flame AA	50	49.9	99.8	(80.00 - 120.00)	0.40

QC Batch #59760 Magnesium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Magnesium, Flame AA	20	19.1	95.5	(90.00 - 110.00)	
LCS2	Magnesium, Flame AA	20	19.4	97.0	(90.00 - 110.00)	1.6
MBLK	Magnesium, Flame AA	ND				
MS	Magnesium, Flame AA	20	19.7	98.5	(80.00 - 120.00)	
MSD	Magnesium, Flame AA	20	20.2	101.0	(80.00 - 120.00)	2.5

QC Batch #59761 Calcium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Calcium, Flame AA	50	48.9	97.8	(90.00 - 110.00)	
LCS2	Calcium, Flame AA	50	50.3	100.6	(90.00 - 110.00)	2.8
MBLK	Calcium, Flame AA	ND				
MS	Calcium, Flame AA	50	47.5	95.0	(80.00 - 120.00)	
MSD	Calcium, Flame AA	50	49.1	98.2	(80.00 - 120.00)	3.3

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

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Laboratory
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Foster Wheeler Environmental, Inc
(continued)

QC Batch #59787 Hexavalent chromium

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Hexavalent chromium	0.050	0.0479	95.8	(78.00 - 118.00)	
LCS2	Hexavalent chromium	0.050	0.0458	91.6	(78.00 - 118.00)	4.5
MBLK	Hexavalent chromium	ND				
MS	Hexavalent chromium	0.050	0.0479	95.8	(80.00 - 120.00)	
MSD	Hexavalent chromium	0.050	0.0479	95.8	(80.00 - 120.00)	0.00

QC Batch #59883 Total phosphorus-P

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Total phosphorus-P	0.5	.414	82.8	(80.00 - 120.00)	
LCS2	Total phosphorus-P	0.5	.421	84.2	(80.00 - 120.00)	1.7
MBLK	Total phosphorus-P	ND				
MS	Total phosphorus-P	0.4	.349	87.2	(70.00 - 130.00)	
MSD	Total phosphorus-P	0.4	.323	80.8	(70.00 - 130.00)	7.7

QC Batch #59884 Alkalinity

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Alkalinity	96.2	98.6	102.5	(90.00 - 110.00)	
LCS2	Alkalinity	96.2	97.7	101.6	(90.00 - 110.00)	0.92
MBLK	Alkalinity	ND				
MS	Alkalinity	96.2	97.2	101.0	(80.00 - 120.00)	
MSD	Alkalinity	96.2	99.4	103.3	(80.00 - 120.00)	2.2

QC Batch #59902 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	3.50	87.5	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				

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LCS1	1,1,2,2-Tetrachloroethane	4	3.84	96.0	(70.00 - 130.00)
MBLK	1,1,2,2-Tetrachloroethane	ND			
LCS1	1,1,2-Trichloroethane	4	3.30	82.5	(70.00 - 130.00)
MBLK	1,1,2-Trichloroethane	ND			
LCS1	1,1-Dichloroethane	4	3.45	86.2	(70.00 - 130.00)
MBLK	1,1-Dichloroethane	ND			
LCS1	1,1-Dichloroethylene	4	3.09	77.2	(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	3.34	83.5	(70.00 - 130.00)
MBLK	1,2,4-Trichlorobenzene	ND			
MBLK	1,2,4-Trimethylbenzene	ND			
LCS1	1,2-Dichloroethane	4	3.42	85.5	(70.00 - 130.00)
MBLK	1,2-Dichloroethane	ND			
LCS1	1,2-Dichloropropane	4	3.22	80.5	(70.00 - 130.00)
MBLK	1,2-Dichloropropane	ND			
MBLK	1,3,5-Trimethylbenzene	ND			
LCS1	1,3-Dichloropropane	8	6.35	79.4	(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	3.46	86.5	(70.00 - 130.00)
MBLK	Benzene	ND			
MBLK	Bromobenzene	ND			
MBLK	Bromochloromethane	ND			
LCS1	Bromodichloromethane	4	3.55	88.8	(70.00 - 130.00)
MBLK	Bromodichloromethane	ND			
LCS1	Bromoform	4	3.28	82.0	(70.00 - 130.00)
MBLK	Bromoform	ND			
MBLK	Bromomethane (Methyl Bromide)	ND			
LCS1	Carbon Tetrachloride	4	3.59	89.8	(70.00 - 130.00)
MBLK	Carbon Tetrachloride	ND			
LCS1	Chlorobenzene	4	3.61	90.2	(70.00 - 130.00)
MBLK	Chlorobenzene	ND			

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

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Laboratory
QC Report
#32334

Foster Wheeler Environmental, Inc
(continued)

LCS1	Chlorodibromomethane	4	3.30	82.5	(70.00 - 130.00)
MBLK	Chlorodibromomethane	ND			
MBLK	Chloroethane	ND			
LCS1	Chloroform (Trichloromethane)	4	3.53	88.2	(70.00 - 130.00)
MBLK	Chloroform (Trichloromethane)	ND			
MBLK	Chloromethane(Methyl Chloride)	ND			
MBLK	Dibromomethane	ND			
MBLK	Dichlorodifluoromethane	ND			
LCS1	Dichloromethane	4	3.36	84.0	(70.00 - 130.00)
MBLK	Dichloromethane	ND			
LCS1	Ethyl benzene	4	3.57	89.2	(70.00 - 130.00)
MBLK	Ethyl benzene	ND			
LCS1	Fluorotrichloromethane(Freon1)	2	2.27	113.5	(70.00 - 130.00)
MBLK	Fluorotrichloromethane(Freon1)	ND			
MBLK	Hexachlorobutadiene	ND			
MBLK	Isopropylbenzene	ND			
LCS1	Methyl Tert-butyl ether (MTBE)	4	4.10	102.5	(70.00 - 130.00)
MBLK	Methyl Tert-butyl ether (MTBE)	ND			
MBLK	Naphthalene	ND			
LCS1	Styrene	4	3.67	91.8	(70.00 - 130.00)
MBLK	Styrene	ND			
LCS1	Tetrachloroethylene (PCE)	4	3.70	92.5	(70.00 - 130.00)
MBLK	Tetrachloroethylene (PCE)	ND			
LCS1	Toluene	4	3.46	86.5	(70.00 - 130.00)
MBLK	Toluene	ND			
LCS1	Trichloroethylene (TCE)	4	3.55	88.8	(70.00 - 130.00)
MBLK	Trichloroethylene (TCE)	ND			
LCS1	Trichlorotrifluoroethane(Freon	4	4.12	103.0	(70.00 - 130.00)
MBLK	Trichlorotrifluoroethane(Freon	ND			
LCS1	Vinyl chloride (VC)	2	2.05	102.5	(70.00 - 130.00)
MBLK	Vinyl chloride (VC)	ND			
LCS1	cis-1,2-Dichloroethylene	4	3.50	87.5	(70.00 - 130.00)
MBLK	cis-1,2-Dichloroethylene	ND			
MBLK	cis-1,3-Dichloropropene	ND			
LCS1	m,p-Xylenes	8	7.56	94.5	(70.00 - 130.00)
MBLK	m,p-Xylenes	ND			
MBLK	m-Dichlorobenzene (1,3-DCB)	ND			
MBLK	n-Butylbenzene	ND			

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

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Laboratory
QC Report
#32334

Foster Wheeler Environmental, Inc
(continued)

MBLK	n-Propylbenzene	ND			
MBLK	o-Chlorotoluene	ND			
LCS1	o-Dichlorobenzene (1,2-DCB)	4	3.74	93.5	(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	3.03	75.8	(70.00 - 130.00)
MBLK	trans-1,2-Dichloroethylene	ND			
MBLK	trans-1,3-Dichloropropene	ND			

QC Batch #59906 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	3.57	89.2	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	4.13	103.2	(70.00 - 130.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	3.49	87.2	(70.00 - 130.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	3.44	86.0	(70.00 - 130.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	3.07	76.8	(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	3.71	92.8	(70.00 - 130.00)	
MBLK	1,2,4-Trichlorobenzene	ND				
MBLK	1,2,4-Trimethylbenzene	ND				
LCS1	1,2-Dichloroethane	4	3.76	94.0	(70.00 - 130.00)	

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

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Foster Wheeler Environmental, Inc
(continued)

MBLK	1,2-Dichloroethane	ND			
LCS1	1,2-Dichloropropane	4	3.28	82.0	(70.00 - 130.00)
MBLK	1,2-Dichloropropane	ND			
MBLK	1,3,5-Trimethylbenzene	ND			
LCS1	1,3-Dichloropropane	8	6.57	82.1	(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	3.47	86.8	(70.00 - 130.00)
MBLK	Benzene	ND			
MBLK	Bromobenzene	ND			
MBLK	Bromochloromethane	ND			
LCS1	Bromodichloromethane	4	3.66	91.5	(70.00 - 130.00)
MBLK	Bromodichloromethane	ND			
LCS1	Bromoform	4	3.59	89.8	(70.00 - 130.00)
MBLK	Bromoform	ND			
MBLK	Bromomethane (Methyl Bromide)	ND			
LCS1	Carbon Tetrachloride	4	3.82	95.5	(70.00 - 130.00)
MBLK	Carbon Tetrachloride	ND			
LCS1	Chlorobenzene	4	3.72	93.0	(70.00 - 130.00)
MBLK	Chlorobenzene	ND			
LCS1	Chlorodibromomethane	4	3.88	97.0	(70.00 - 130.00)
MBLK	Chlorodibromomethane	ND			
MBLK	Chloroethane	ND			
LCS1	Chloroform (Trichloromethane)	4	3.70	92.5	(70.00 - 130.00)
MBLK	Chloroform (Trichloromethane)	ND			
MBLK	Chloromethane(Methyl Chloride)	ND			
MBLK	Dibromomethane	ND			
MBLK	Dichlorodifluoromethane	ND			
LCS1	Dichloromethane	4	3.45	86.2	(70.00 - 130.00)
MBLK	Dichloromethane	ND			
LCS1	Ethyl benzene	4	3.56	89.0	(70.00 - 130.00)
MBLK	Ethyl benzene	ND			
LCS1	Fluorotrichloromethane(Freon1)	2	2.36	118.0	(70.00 - 130.00)
MBLK	Fluorotrichloromethane(Freon1)	ND			
MBLK	Hexachlorobutadiene	ND			

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Foster Wheeler Environmental, Inc
(continued)

MBLK	Isopropylbenzene	ND			
LCS1	Methyl Tert-butyl ether (MTBE)	4	3.65	91.2	(70.00 - 130.00)
MBLK	Methyl Tert-butyl ether (MTBE)	ND			
MBLK	Naphthalene	ND			
LCS1	Styrene	4	3.84	96.0	(70.00 - 130.00)
MBLK	Styrene	ND			
LCS1	Tetrachloroethylene (PCE)	4	4.12	103.0	(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	3.78	94.5	(70.00 - 130.00)
MBLK	Trichloroethylene (TCE)	ND			
LCS1	Trichlorotrifluoroethane(Freon	4	4.08	102.0	(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	3.66	91.5	(70.00 - 130.00)
MBLK	cis-1,2-Dichloroethylene	ND			
MBLK	cis-1,3-Dichloropropene	ND			
LCS1	m,p-Xylenes	8	7.59	94.9	(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	3.78	94.5	(70.00 - 130.00)
MBLK	o-Dichlorobenzene (1,2-DCB)	ND			
LCS1	o-Xylene	4	3.78	94.5	(70.00 - 130.00)
MBLK	o-Xylene	ND			
MBLK	p-Chlorotoluene	ND			
LCS1	p-Dichlorobenzene (1,4-DCB)	4	3.64	91.0	(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	3.02	75.5	(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.

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Laboratory
QC Report
#32334

Foster Wheeler Environmental, Inc
(continued)

QC Batch #59960 Chloride

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Chloride	25	26.0	104.0	(90.00 - 110.00)	
LCS2	Chloride	25	25.9	103.6	(90.00 - 110.00)	0.39
MBLK	Chloride	ND				
MS	Chloride	25	25.7	102.8	(80.00 - 120.00)	
MSD	Chloride	25	25.4	101.6	(80.00 - 120.00)	1.2

QC Batch #59964 Sulfate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Sulfate	50	52.1	104.2	(90.00 - 110.00)	
LCS2	Sulfate	50	52.1	104.2	(90.00 - 110.00)	0.00
MBLK	Sulfate	ND				
MS	Sulfate	50	53.8	107.6	(70.00 - 130.00)	
MSD	Sulfate	50	53.8	107.6	(70.00 - 130.00)	0.00

QC Batch #59965 Nitrate-N by IC

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Nitrate-N by IC	2.5	2.67	106.8	(90.00 - 110.00)	
LCS2	Nitrate-N by IC	2.5	2.68	107.2	(90.00 - 110.00)	0.37
MBLK	Nitrate-N by IC	ND				
MS	Nitrate-N by IC	2.5	2.50	100.0	(80.00 - 120.00)	
MSD	Nitrate-N by IC	2.5	2.49	99.6	(80.00 - 120.00)	0.40

QC Batch #60020 Total Dissolved Solids

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Total Dissolved Solids	175	190	108.6	(85.00 - 115.00)	
LCS2	Total Dissolved Solids	175	184	105.1	(85.00 - 115.00)	3.2
MBLK	Total Dissolved Solids	ND				

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

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Foster Wheeler Environmental, Inc
(continued)

QC Batch #60245 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP/MS	100	104	104.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	103	103.0	(85.00 - 115.00)	0.97
MBLK	Chromium, Total, ICAP/MS	ND		0.0		
MS	Chromium, Total, ICAP/MS	100	105.	105.0	(70.00 - 130.00)	
MSD	Chromium, Total, ICAP/MS	100	108.	108.0	(70.00 - 130.00)	2.8

QC Batch #60253 Lead, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Lead, Total, ICAP/MS	20	20.7	103.5	(85.00 - 115.00)	
LCS2	Lead, Total, ICAP/MS	20	21.1	105.5	(85.00 - 115.00)	1.9
MBLK	Lead, Total, ICAP/MS	ND		0.0		
MS	Lead, Total, ICAP/MS	20	20.3	101.5	(70.00 - 130.00)	
MSD	Lead, Total, ICAP/MS	20	20.4	102.0	(70.00 - 130.00)	0.49

QC Batch #60272 Arsenic, Total, GF

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Arsenic, Total, GF	0.020	0.0203	101.5	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.0227	113.5	(85.00 - 115.00)	11
MBLK	Arsenic, Total, GF	ND				
MS	Arsenic, Total, GF	0.020	0.0216	108.0	(85.00 - 115.00)	
MSD	Arsenic, Total, GF	0.020	0.0218	109.0	(85.00 - 115.00)	0.92

QC Batch #60274 Arsenic, Total, GF

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Arsenic, Total, GF	0.020	0.0216	108.0	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.0209	104.5	(85.00 - 115.00)	3.3
MBLK	Arsenic, Total, GF	ND				

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Foster Wheeler Environmental, Inc
(continued)

MS	Arsenic, Total, GF	0.020	0.0207	103.5	(85.00 - 115.00)	
MSD	Arsenic, Total, GF	0.020	0.0223	111.5	(85.00 - 115.00)	7.4

QC Batch #60291 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP/MS	100	104	104.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	105	105.0	(85.00 - 115.00)	0.96
MBLK	Chromium, Total, ICAP/MS	ND		0.0		
MS	Chromium, Total, ICAP/MS	100	105.	105.0	(70.00 - 130.00)	
MSD	Chromium, Total, ICAP/MS	100	107.	107.0	(70.00 - 130.00)	1.9

QC Batch #60292 Iron, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Iron, Total, ICAP/MS	500	524	104.8	(85.00 - 115.00)	
LCS2	Iron, Total, ICAP/MS	500	524	104.8	(85.00 - 115.00)	0.00
MBLK	Iron, Total, ICAP/MS	ND		0.0		
MS	Iron, Total, ICAP/MS	500	551.	110.2	(70.00 - 130.00)	
MSD	Iron, Total, ICAP/MS	500	533.	106.6	(70.00 - 130.00)	3.3

QC Batch #60293 Lead, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Lead, Total, ICAP/MS	20	21.5	107.5	(85.00 - 115.00)	
LCS2	Lead, Total, ICAP/MS	20	21.0	105.0	(85.00 - 115.00)	2.4
MBLK	Lead, Total, ICAP/MS	ND	0.869	0.0		
MS	Lead, Total, ICAP/MS	20	21.1	105.5	(70.00 - 130.00)	
MSD	Lead, Total, ICAP/MS	20	19.8	99.0	(70.00 - 130.00)	6.4

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

Report Summary of positive results, PR32334

			Result	MDL	UNITS
Analyzed	970214126	MW-971-84			
02/19/97	Data Entry		02/22/97		--
Analyzed	970214127	MW-971-83			
02/19/97	Data Entry		002/22/97		--
Analyzed	970214128	MW-971-53			
02/18/97	Chloroform (Trichloromethane)		1.5	.500	UGL
02/18/97	Data Entry		02/21/97		--
02/18/97	Tetrachloroethylene (PCE)		0.6	.500	UGL
02/18/97	Trichloroethylene (TCE)		1.1	.500	UGL
02/21/97	Alkalinity		190	2.000	MGL
03/09/97	Anion Sum		6.24	.001	MEQL
02/25/97	Bicarbonate as HCO3,calculated		231	.001	MGL
02/17/97	Calcium, Flame AA		56	1.000	MGL
02/25/97	Carbonate as CO3, Calculated		1.50	.001	MGL
02/21/97	Cation Sum		6.26	.001	MEQL
02/21/97	Chloride		39	2.000	MGL
03/05/97	Iron, Total, ICAP/MS		290	******	UGL
02/18/97	Lab pH		8.0	.001	UNIT
03/05/97	Lead, Total, ICAP/MS		2.5	2.000	UGL
02/17/97	Magnesium, Flame AA		27	1.000	MGL
02/21/97	Nitrate-N by IC		4.8	.200	MGL
02/17/97	Potassium, Flame AA		2.4	1.000	MGL
02/17/97	Sodium, Flame AA		27	1.000	MGL
02/17/97	Specific Conductance		375	4.000	UMHO
02/21/97	Sulfate		48	4.000	MGL
02/21/97	Total Dissolved Solids		350	10.000	MGL

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Laboratory Report

for

Foster Wheeler Environmental, Inc
611 Anton Boulevard

Suite 800

Costa Mesa , CA 92626

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

MONTGOMERY WATSON LABS.
SUBMITTED ON

MAR 11 1997

ADE*

Report#: 32391
JPL

MONTGOMERY WATSON LABORATORIES

March 11, 1997

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

Attention: Mark Cutler

Re: Report # 32391 (MW-971-86,85,51)

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):
All volatiles were analyzed within holding time with acceptable IS and surrogate recoveries.
Samples requiring dilution (with increased MRL's):
None
Method blanks with compounds detected:
None
Other Comments:
Acetone was detected as a TIC in sample -85.

Sincerely,

Andrew Eaton, PhD
Laboratory Director

cc: Judy Novelly (JPL)

a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 818 568 6400
Fax: 818 568 6324

Quality Environmental Analysis

MONTGOMERY WATSON LABORATORIES

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Laboratory
Report
#32391

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

Samples Received
19-feb-1997 13:50:34

MW-971-86 (970219069) Sampled on 02/19/96

Regulated VOCs plus Lists 1&3

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	02/21/97	60073	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	02/21/97	60073	(ML/EPA 524.2)	2-Chloroethylvinylether	ND	ug/l	1.0	1
	02/21/97	60073	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	02/21/97	60073	(EPA/SM 524.2)	Benzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	02/21/97	60073	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Fluorotrichloromethane(Freon1)	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	02/21/97	60073	(ML524.2/SW8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/l	5.0	1
	02/21/97	60073	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND	ug/L	5.0	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	94	% Rec		

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
			(Surrogate)	4-Bromofluorobenzene	104	% Rec		
			(Surrogate)	Toluene-d8	95	% Rec		
MW-971-85 (970219070)			**Sampled on 02/19/96**					
03/04/97	03/06/97	60272	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
03/04/97	03/04/97	60245	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	02/20/97	60028	(ML/SW 7196)	Hexavalent chromium	ND	mg/l	0.005	1
03/04/97	03/04/97	60253	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
			Regulated VOCs plus Lists 1&3					
	02/21/97	60073	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	02/21/97	60073	(ML/EPA 524.2)	2-Chloroethylvinylether	ND	ug/l	1.0	1
	02/21/97	60073	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	02/21/97	60073	(EPA/SM 524.2)	Benzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	02/21/97	60073	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Fluorotrichloromethane(Freon1)	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	02/21/97	60073	(ML524.2/SW8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/l	5.0	1
	02/21/97	60073	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1

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			(EPA 524.2)	Acetone	3.0	ug/L		1
			(Surrogate)	1,2-Dichloroethane-d4	102	% Rec		
			(Surrogate)	4-Bromofluorobenzene	98	% Rec		
			(Surrogate)	Toluene-d8	95	% Rec		
MW-971-51 (970219071) Sampled on 02/19/96								
	02/21/97	59884	(ML/S2320B)	Alkalinity	150	mg/l	2.0	1
	02/25/97		(ML/SM1040)	Anion Sum	5.74	meq/l	0.0010	1
03/04/97	03/06/97	60272	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	03/06/97	60263	(ML/S3111B)	Calcium, Flame AA	62	mg/l	1.0	1
	03/09/97		(ML/SM1040)	Cation Sum	5.61	meq/l	0.0010	1
	02/21/97	59960	(ML/EPA 300)	Chloride	38	mg/l	1.0	1
	03/06/97		(ML/S2320-B)	Carbonate as CO3, Calculated	0.150	mg/l	0.0010	1
03/04/97	03/04/97	60245	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	02/20/97	60028	(ML/SW 7196)	Hexavalent chromium	ND	mg/l	0.005	1
	02/24/97		(ML/S2510B)	Specific Conductance	515	umho/cm	4.0	1
03/04/97	03/04/97	60248	(EPA/ML 200.8)	Iron, Total, ICAP/MS	2400	ug/l	100	1
	03/06/97		(ML/S2320B)	Bicarbonate as HCO3,calculated	183	mg/l	0.0010	1
	03/06/97	60237	(ML/S3111B)	Potassium, Flame AA	1.7	mg/l	1.0	1
	03/06/97	60260	(ML/S3111B)	Magnesium, Flame AA	22	mg/l	1.0	1
	03/06/97	60259	(ML/S3111B)	Sodium, Flame AA	15	mg/l	1.0	1
	02/21/97	59965	(ML/EPA 300.0)	Nitrate-N by IC	4.7	mg/l	0.10	1
03/04/97	03/04/97	60253	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	02/21/97		(ML/S4500H-B)	Lab pH	7.1	Units	0.0010	1
	02/21/97	59964	(ML/EPA 300)	Sulfate	64	mg/l	2.0	1
	03/03/97	60173	(ML/EPA 365.2)	Total phosphorus-P	ND	mg/l	0.050	1
	02/21/97	60020	(ML/S2540C)	Total Dissolved Solids	290	mg/l	10	1
Regulated VOCs plus Lists 1&3								
	02/21/97	60073	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	02/21/97	60073	(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
	02/21/97	60073	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	02/21/97	60073	(ML/EPA 524.2)	2-Chloroethylvinylether	ND	ug/l	1.0	1
	02/21/97	60073	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	02/21/97	60073	(EPA/SM 524.2)	Benzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Fluorotrichloromethane(Freon1)	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1

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(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	02/21/97	60073	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	02/21/97	60073	(ML524.2/SW8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/l	5.0	1
	02/21/97	60073	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	02/21/97	60073	(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	95	% Rec		

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Laboratory QC Report #32391

Foster Wheeler Environmental, Inc

QC Batch #59884 Alkalinity

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Alkalinity	96.2	98.6	102.5	(90.00 - 110.00)	
LCS2	Alkalinity	96.2	97.7	101.6	(90.00 - 110.00)	0.92
MBLK	Alkalinity	ND				
MS	Alkalinity	96.2	97.2	101.0	(80.00 - 120.00)	
MSD	Alkalinity	96.2	99.4	103.3	(80.00 - 120.00)	2.2

QC Batch #59960 Chloride

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Chloride	25	26.0	104.0	(90.00 - 110.00)	
LCS2	Chloride	25	25.9	103.6	(90.00 - 110.00)	0.39
MBLK	Chloride	ND				
MS	Chloride	25	25.7	102.8	(80.00 - 120.00)	
MSD	Chloride	25	25.4	101.6	(80.00 - 120.00)	1.2

QC Batch #59964 Sulfate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Sulfate	50	52.1	104.2	(90.00 - 110.00)	
LCS2	Sulfate	50	52.1	104.2	(90.00 - 110.00)	0.00
MBLK	Sulfate	ND				
MS	Sulfate	50	53.8	107.6	(70.00 - 130.00)	
MSD	Sulfate	50	53.8	107.6	(70.00 - 130.00)	0.00

QC Batch #59965 Nitrate-N by IC

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Nitrate-N by IC	2.5	2.67	106.8	(90.00 - 110.00)	
LCS2	Nitrate-N by IC	2.5	2.68	107.2	(90.00 - 110.00)	0.37
MBLK	Nitrate-N by IC	ND				
MS	Nitrate-N by IC	2.5	2.50	100.0	(80.00 - 120.00)	
MSD	Nitrate-N by IC	2.5	2.49	99.6	(80.00 - 120.00)	0.40

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

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(continued)

QC Batch #60020 Total Dissolved Solids

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Total Dissolved Solids	175	190	108.6	(85.00 - 115.00)	
LCS2	Total Dissolved Solids	175	184	105.1	(85.00 - 115.00)	3.2
MBLK	Total Dissolved Solids	ND				

QC Batch #60028 Hexavalent chromium

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Hexavalent chromium	0.050	0.0478	95.6	(78.00 - 118.00)	
LCS2	Hexavalent chromium	0.050	0.0471	94.2	(78.00 - 118.00)	1.5
MBLK	Hexavalent chromium	ND				
MS	Hexavalent chromium	0.050	0.0478	95.6	(80.00 - 120.00)	
MSD	Hexavalent chromium	0.050	0.0485	97.0	(80.00 - 120.00)	1.5

QC Batch #60073 Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	4	4.37	109.2	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	3.47	86.8	(70.00 - 130.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				
LCS1	1,1,2-Trichloroethane	4	3.27	81.8	(70.00 - 130.00)	
MBLK	1,1,2-Trichloroethane	ND				
LCS1	1,1-Dichloroethane	4	4.54	113.5	(70.00 - 130.00)	
MBLK	1,1-Dichloroethane	ND				
LCS1	1,1-Dichloroethylene	4	5.10	127.5	(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	3.66	91.5	(70.00 - 130.00)	

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(continued)

MBLK	1,2,4-Trichlorobenzene	ND			
MBLK	1,2,4-Trimethylbenzene	ND			
LCS1	1,2-Dichloroethane	4	3.83	95.8	(70.00 - 130.00)
MBLK	1,2-Dichloroethane	ND			
LCS1	1,2-Dichloropropane	4	3.78	94.5	(70.00 - 130.00)
MBLK	1,2-Dichloropropane	ND			
MBLK	1,3,5-Trimethylbenzene	ND			
LCS1	1,3-Dichloropropane	8	6.85	85.6	(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	4.35	108.7	(70.00 - 130.00)
MBLK	Benzene	ND			
MBLK	Bromobenzene	ND			
MBLK	Bromochloromethane	ND			
LCS1	Bromodichloromethane	4	3.77	94.2	(70.00 - 130.00)
MBLK	Bromodichloromethane	ND			
LCS1	Bromoform	4	3.50	87.5	(70.00 - 130.00)
MBLK	Bromoform	ND			
MBLK	Bromomethane (Methyl Bromide)	ND			
LCS1	Carbon Tetrachloride	4	4.65	116.3	(70.00 - 130.00)
MBLK	Carbon Tetrachloride	ND			
LCS1	Chlorobenzene	4	4.06	101.5	(70.00 - 130.00)
MBLK	Chlorobenzene	ND			
LCS1	Chlorodibromomethane	4	3.21	80.2	(70.00 - 130.00)
MBLK	Chlorodibromomethane	ND			
MBLK	Chloroethane	ND			
LCS1	Chloroform (Trichloromethane)	4	3.99	99.8	(70.00 - 130.00)
MBLK	Chloroform (Trichloromethane)	ND			
MBLK	Chloromethane(Methyl Chloride)	ND			
MBLK	Dibromomethane	ND			
MBLK	Dichlorodifluoromethane	ND			
LCS1	Dichloromethane	4	4.38	109.5	(70.00 - 130.00)
MBLK	Dichloromethane	ND			
LCS1	Ethyl benzene	4	4.31	107.7	(70.00 - 130.00)
MBLK	Ethyl benzene	ND			

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Foster Wheeler Environmental, Inc
(continued)

LCS1	Fluorotrichloromethane(Freon1)	2	2.32	116.0	(70.00 - 130.00)
MBLK	Fluorotrichloromethane(Freon1)	ND			
MBLK	Hexachlorobutadiene	ND			
MBLK	Isopropylbenzene	ND			
LCS1	Methyl Tert-butyl ether (MTBE)	4	3.62	90.5	(70.00 - 130.00)
MBLK	Methyl Tert-butyl ether (MTBE)	ND			
MBLK	Naphthalene	ND			
LCS1	Styrene	4	3.99	99.8	(70.00 - 130.00)
MBLK	Styrene	ND			
LCS1	Tetrachloroethylene (PCE)	4	4.78	119.5	(70.00 - 130.00)
MBLK	Tetrachloroethylene (PCE)	ND			
LCS1	Toluene	4	4.28	107.0	(70.00 - 130.00)
MBLK	Toluene	ND			
LCS1	Trichloroethylene (TCE)	4	4.38	109.5	(70.00 - 130.00)
MBLK	Trichloroethylene (TCE)	ND			
LCS1	Trichlorotrifluoroethane(Freon	2	2.69	134.5	(70.00 - 130.00)
MBLK	Trichlorotrifluoroethane(Freon	ND			
LCS1	Vinyl chloride (VC)	2	2.06	103.0	(70.00 - 130.00)
MBLK	Vinyl chloride (VC)	ND			
LCS1	cis-1,2-Dichloroethylene	4	4.18	104.5	(70.00 - 130.00)
MBLK	cis-1,2-Dichloroethylene	ND			
MBLK	cis-1,3-Dichloropropene	ND			
LCS1	m,p-Xylenes	8	8.85	110.6	(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	3.89	97.2	(70.00 - 130.00)
MBLK	o-Dichlorobenzene (1,2-DCB)	ND			
LCS1	o-Xylene	4	4.28	107.0	(70.00 - 130.00)
MBLK	o-Xylene	ND			
MBLK	p-Chlorotoluene	ND			
LCS1	p-Dichlorobenzene (1,4-DCB)	4	3.97	99.2	(70.00 - 130.00)
MBLK	p-Dichlorobenzene (1,4-DCB)	ND			
MBLK	p-Isopropyltoluene	ND			
MBLK	sec-Butylbenzene	ND			
MBLK	tert-Butylbenzene	ND			

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Foster Wheeler Environmental, Inc
(continued)

LCS1	trans-1,2-Dichloroethylene	4	5.06	126.5	(70.00 - 130.00)
MBLK	trans-1,2-Dichloroethylene	ND			
MBLK	trans-1,3-Dichloropropene	ND			

QC Batch #60173 Total phosphorus-P

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Total phosphorus-P	0.5	.427	85.4	(80.00 - 120.00)	
LCS2	Total phosphorus-P	0.5	.411	82.2	(80.00 - 120.00)	3.8
MBLK	Total phosphorus-P	ND				
MS	Total phosphorus-P	0.4	.336	84.0	(70.00 - 130.00)	
MSD	Total phosphorus-P	0.4	.333	83.2	(70.00 - 130.00)	0.90

QC Batch #60237 Potassium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Potassium, Flame AA	20	18.9	94.5	(80.00 - 120.00)	
LCS2	Potassium, Flame AA	20	19.1	95.5	(80.00 - 120.00)	1.1
MBLK	Potassium, Flame AA	ND				
MS	Potassium, Flame AA	20	18.9	94.5	(80.00 - 120.00)	
MSD	Potassium, Flame AA	20	18.9	94.5	(80.00 - 120.00)	0.00

QC Batch #60245 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP/MS	100	104	104.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	103	103.0	(85.00 - 115.00)	0.97
MBLK	Chromium, Total, ICAP/MS	ND		0.0		
MS	Chromium, Total, ICAP/MS	100	105.	105.0	(70.00 - 130.00)	
MSD	Chromium, Total, ICAP/MS	100	108.	108.0	(70.00 - 130.00)	2.8

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

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Foster Wheeler Environmental, Inc
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QC Batch #60248 Iron, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Iron, Total, ICAP/MS	500	516	103.2	(85.00 - 115.00)	
LCS2	Iron, Total, ICAP/MS	500	512	102.4	(85.00 - 115.00)	0.78
MBLK	Iron, Total, ICAP/MS	ND		0.0		
MS	Iron, Total, ICAP/MS	500	532.	106.4	(70.00 - 130.00)	
MSD	Iron, Total, ICAP/MS	500	576.	115.2	(70.00 - 130.00)	7.9

QC Batch #60253 Lead, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Lead, Total, ICAP/MS	20	20.7	103.5	(85.00 - 115.00)	
LCS2	Lead, Total, ICAP/MS	20	21.1	105.5	(85.00 - 115.00)	1.9
MBLK	Lead, Total, ICAP/MS	ND		0.0		
MS	Lead, Total, ICAP/MS	20	20.3	101.5	(70.00 - 130.00)	
MSD	Lead, Total, ICAP/MS	20	20.4	102.0	(70.00 - 130.00)	0.49

QC Batch #60259 Sodium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Sodium, Flame AA	50	50	100.0	(90.00 - 110.00)	
LCS2	Sodium, Flame AA	50	50.6	101.2	(90.00 - 110.00)	1.2
MBLK	Sodium, Flame AA	ND				
MS	Sodium, Flame AA	50	49.6	99.2	(80.00 - 120.00)	
MSD	Sodium, Flame AA	50	48.8	97.6	(80.00 - 120.00)	1.6

QC Batch #60260 Magnesium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Magnesium, Flame AA	20	19	95.0	(90.00 - 110.00)	
LCS2	Magnesium, Flame AA	20	18.8	94.0	(90.00 - 110.00)	1.1
MBLK	Magnesium, Flame AA	ND				

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MS	Magnesium, Flame AA	20	19.3	96.5	(80.00 - 120.00)	
MSD	Magnesium, Flame AA	20	19.2	96.0	(80.00 - 120.00)	0.52

QC Batch #60263 Calcium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Calcium, Flame AA	50	51.1	102.2	(90.00 - 110.00)	
LCS2	Calcium, Flame AA	50	51.7	103.4	(90.00 - 110.00)	1.2
MBLK	Calcium, Flame AA	ND				
MS	Calcium, Flame AA	50	42.7	85.4	(80.00 - 120.00)	
MSD	Calcium, Flame AA	50	43.6	87.2	(80.00 - 120.00)	2.1

QC Batch #60272 Arsenic, Total, GF

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Arsenic, Total, GF	0.020	0.0203	101.5	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.0227	113.5	(85.00 - 115.00)	11
MBLK	Arsenic, Total, GF	ND				
MS	Arsenic, Total, GF	0.020	0.0216	108.0	(85.00 - 115.00)	
MSD	Arsenic, Total, GF	0.020	0.0218	109.0	(85.00 - 115.00)	0.92

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Report Summary of positive results, PR32391

			Result	MDL	UNITS
Analyzed	970219069	MW-971-86			
02/21/97	Data Entry		02/28/97		--
Analyzed	970219070	MW-971-85			
02/21/97	Data Entry		02/28/97		--
Analyzed	970219071	MW-971-51			
02/21/97	Data Entry		02/28/97		--
02/21/97	Alkalinity		150	2.000	MGL
02/25/97	Anion Sum		5.74	.001	MEQL
03/06/97	Bicarbonate as HCO3,calculated		183	.001	MGL
03/06/97	Calcium, Flame AA		62	1.000	MGL
03/06/97	Carbonate as CO3, Calculated		0.150	.001	MGL
03/09/97	Cation Sum		5.61	.001	MEQL
02/21/97	Chloride		38	1.000	MGL
03/04/97	Iron, Total, ICAP/MS		2400	******	UGL
02/21/97	Lab pH		7.1	.001	UNIT
03/06/97	Magnesium, Flame AA		22	1.000	MGL
02/21/97	Nitrate-N by IC		4.7	.100	MGL
03/06/97	Potassium, Flame AA		1.7	1.000	MGL
03/06/97	Sodium, Flame AA		15	1.000	MGL
02/24/97	Specific Conductance		515	4.000	UMHO
02/21/97	Sulfate		64	2.000	MGL
02/21/97	Total Dissolved Solids		290	10.000	MGL

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Laboratory Report

for

Foster Wheeler Environmental, Inc
611 Anton Boulevard

Suite 800

Costa Mesa , CA 92626

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

MONTGOMERY WATSON LABS.
SUBMITTED ON
MAR 11 1997
A Eaton

Report#: 32435
JPL

MONTGOMERY WATSON LABORATORIES

March 11, 1997

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

Attention: Mark Cutler

Re: Report # 32435 (MW-971-88,87,63, 62, 61)

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):
Freon was recovered above the QC limit in the LCS analyzed on 2/21/97 (Reference QIR MS-97-006). All volatiles were analyzed within holding time with acceptable IS and surrogate recoveries.

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

Method blanks with compounds detected:
None

Other Comments:
Lead was detected above the CRDL in sample -63 and 62. Volatiles were detected in several samples above the CRDL.

Sincerely,

Andrew Eaton, PhD
Laboratory Director

cc: Judy Novelly (JPL)

a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 818 568 6400
Fax: 818 568 6324

Quality Environmental Analysis

MJK
ADE

QUALITY INVESTIGATION REPORT

QIR No. MS-97-006

Analysis Date: February 21, 1997
Analysis: 524
Extraction Date: NA
Matrix: WATER
Analyst: Yam
Instrument ID: GCMS D

SAMPLES IMPACTED

Lab #	Client ID	Client Name	Lab #	Client ID	Client Name
970219013	96 WATER TANK	YUMA	970221001	MW-971-88	FOSTER WHEELER
970219069	MW-971-86	FOSTER wheeler	970221002	-87	
970219070	MW-971-85		970221003	-63	
970219071	MW-971-51		970221004	-62	
			970221005	-61	

Brief Description: (include reason for non-compliance)

Freon-113 Recovered above QC criteria of ~~80-120~~ 70-130% (140%) (134%)

Action Taken:

Prepared new LCS → Recovery lower than first LCS but still above QC criteria.

Impact on Data Quality: None - no hits for Freon-113 in any of the samples.

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

Other:

Annotation:

Client Contact: None required
Yuma - None

Extraction:	NA	Date:	NA
Analyst:	Yolanda Martin	Date:	2/26/97
Group Leader:	Cecilia Lei	Date:	2/27/97
QA Coordinator:	Nilda Cruz	Date:	3/3/97
Project Manager:	[illegible]	Date:	3/3/97

PROPERTY OF MONTGOMERY WATSON LABORATORIES

MONTGOMERY WATSON LABORATORIES

555 East Walnut Street
Pasadena, California 91101
818 568 6400; Fax: 818 568 6324;
1 800 566 LABS (1 800 566 5227)

Laboratory Report #32435

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

Samples Received
20-feb-1997 10:20:00

MW-971-88 (970221001) Sampled on 02/20/97

Regulated VOCs plus Lists 1&3

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	02/21/97	60073	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	02/21/97	60073	(ML/EPA 524.2)	2-Chloroethylvinylether	ND	ug/l	1.0	1
	02/21/97	60073	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	02/21/97	60073	(EPA/SM 524.2)	Benzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1

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Laboratory
Report
#32435

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	02/21/97	60073	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Fluorotrichloromethane(Freon1)	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	02/21/97	60073	(ML524.2/SW8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/l	5.0	1
	02/21/97	60073	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	102	% Rec		
			(Surrogate)	4-Bromofluorobenzene	100	% Rec		

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
			(Surrogate)	Toluene-d8	95	% Rec		
MW-971-87 (970221002)			**Sampled on 02/20/97**					
03/04/97	03/06/97	60272	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
03/04/97	03/04/97	60245	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	02/21/97	59933	(ML/SW 7196)	Hexavalent chromium	ND	mg/l	0.005	1
03/04/97	03/04/97	60253	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
			Regulated VOCs plus Lists 1&3					
	02/21/97	60073	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	02/21/97	60073	(ML/EPA 524.2)	2-Chloroethylvinylether	ND	ug/l	1.0	1
	02/21/97	60073	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	02/21/97	60073	(EPA/SM 524.2)	Benzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Chlorobenzene	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
	02/21/97	60073	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Fluorotrichloromethane(Freon1)	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	02/21/97	60073	(ML524.2/SW8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/l	5.0	1
	02/21/97	60073	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None detected	ND			1

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
			(Surrogate)	1,2-Dichloroethane-d4	103	% Rec		
			(Surrogate)	4-Bromofluorobenzene	102	% Rec		
			(Surrogate)	Toluene-d8	94	% Rec		

MW-971-63 (970221003) Sampled on 02/20/97

	02/24/97	60021	(ML/S2320B)	Alkalinity	180	mg/l	2.0	1
	03/09/97		(ML/SM1040)	Anion Sum	5.83	meq/l	0.0010	1
03/04/97	03/06/97	60272	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	03/06/97	60263	(ML/S3111B)	Calcium, Flame AA	65	mg/l	1.0	1
	03/09/97		(ML/SM1040)	Cation Sum	6.03	meq/l	0.0010	1
	02/21/97	59960	(ML/EPA 300)	Chloride	38	mg/l	2.0	2
	03/06/97		(ML/S2320-B)	Carbonate as CO3, Calculated	0.357	mg/l	0.0010	1
03/04/97	03/04/97	60245	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	02/20/97	60028	(ML/SW 7196)	Hexavalent chromium	ND	mg/l	0.005	1
	02/24/97		(ML/S2510B)	Specific Conductance	530	umho/cm	4.0	1
03/04/97	03/04/97	60248	(EPA/ML 200.8)	Iron, Total, ICAP/MS	910	ug/l	100	1
	03/06/97		(ML/S2320B)	Bicarbonate as HCO3,calculated	219	mg/l	0.0010	1
	03/06/97	60237	(ML/S3111B)	Potassium, Flame AA	2.0	mg/l	1.0	1
	03/06/97	60260	(ML/S3111B)	Magnesium, Flame AA	20	mg/l	1.0	1
	03/06/97	60259	(ML/S3111B)	Sodium, Flame AA	25	mg/l	1.0	1
	02/21/97	59965	(ML/EPA 300.0)	Nitrate-N by IC	7.8	mg/l	0.20	2
03/04/97	03/04/97	60253	(EPA/ML 200.8)	Lead, Total, ICAP/MS	3.5	ug/l	2.0	1
	02/21/97		(ML/S4500H-B)	Lab pH	7.4	Units	0.0010	1
	02/21/97	59964	(ML/EPA 300)	Sulfate	29	mg/l	4.0	2
	03/03/97	60173	(ML/EPA 365.2)	Total phosphorus-P	ND	mg/l	0.050	1
	02/25/97	60037	(ML/S2540C)	Total Dissolved Solids	330	mg/l	10	1

Regulated VOCs plus Lists 1&3

	02/21/97	60073	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	02/21/97	60073	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	02/21/97	60073	(ML/EPA 524.2)	2-Chloroethylvinylether	ND	ug/l	1.0	1
	02/21/97	60073	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	02/21/97	60073	(EPA/SM 524.2)	Benzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Fluorotrichloromethane(Freon1)	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	02/21/97	60073	(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
	02/21/97	60073	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	02/21/97	60073	(ML524.2/SW8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/l	5.0	1
	02/21/97	60073	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	1.8	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	02/21/97	60073	(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	100	% Rec		
			(Surrogate)	Toluene-d8	93	% Rec		

MW-971-62 (970221004) Sampled on 02/20/97

	02/24/97	60021	(ML/S2320B)	Alkalinity	250	mg/l	2.0	1
	03/09/97		(ML/SM1040)	Anion Sum	10.1	meq/l	0.0010	1
03/04/97	03/06/97	60272	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	03/06/97	60263	(ML/S3111B)	Calcium, Flame AA	130	mg/l	5.0	5
	03/09/97		(ML/SM1040)	Cation Sum	11.3	meq/l	0.0010	1
	02/21/97	59960	(ML/EPA 300)	Chloride	93	mg/l	3.0	3
	03/06/97		(ML/S2320-B)	Carbonate as CO3, Calculated	0.627	mg/l	0.0010	1
03/04/97	03/04/97	60245	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	02/20/97	60028	(ML/SW 7196)	Hexavalent chromium	ND	mg/l	0.005	1
	02/24/97		(ML/S2510B)	Specific Conductance	905	umho/cm	4.0	1
03/04/97	03/04/97	60248	(EPA/ML 200.8)	Iron, Total, ICAP/MS	1600	ug/l	100	1
	03/06/97		(ML/S2320B)	Bicarbonate as HCO3,calculated	305	mg/l	0.0010	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	03/06/97	60237	(ML/S3111B)	Potassium, Flame AA	2.9	mg/l	1.0	1
	03/06/97	60260	(ML/S3111B)	Magnesium, Flame AA	38	mg/l	1.0	1
	03/06/97	60259	(ML/S3111B)	Sodium, Flame AA	36	mg/l	1.0	1
	02/21/97	59965	(ML/EPA 300.0)	Nitrate-N by IC	9.0	mg/l	0.30	3
03/04/97	03/04/97	60253	(EPA/ML 200.8)	Lead, Total, ICAP/MS	3.2	ug/l	2.0	1
	02/21/97		(ML/S4500H-B)	Lab pH	7.5	Units	0.0010	1
	02/21/97	59964	(ML/EPA 300)	Sulfate	90	mg/l	6.0	3
	03/03/97	60173	(ML/EPA 365.2)	Total phosphorus-P	ND	mg/l	0.050	1
	02/25/97	60037	(ML/S2540C)	Total Dissolved Solids	590	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	02/21/97	60073	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	02/21/97	60073	(ML/EPA 524.2)	2-Chloroethylvinylether	ND	ug/l	1.0	1
	02/21/97	60073	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	02/21/97	60073	(EPA/SM 524.2)	Benzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	02/21/97	60073	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Fluorotrichloromethane(Freon1)	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	02/21/97	60073	(ML524.2/SW8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/l	5.0	1
	02/21/97	60073	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	1.6	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Trichloroethylene (TCE)	0.8	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	02/21/97	60073	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	111	% Rec		
			(Surrogate)	4-Bromofluorobenzene	98	% Rec		
			(Surrogate)	Toluene-d8	94	% Rec		
MW-971-61 (970221005)			**Sampled on 02/20/97**					
	02/24/97	60021	(ML/S2320B)	Alkalinity	280	mg/l	2.0	1
	03/09/97		(ML/SM1040)	Anion Sum	12.9	meq/l	0.0010	1
03/04/97	03/06/97	60272	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
	03/06/97	60263	(ML/S3111B)	Calcium, Flame AA	150	mg/l	5.0	5
	03/09/97		(ML/SM1040)	Cation Sum	13.7	meq/l	0.0010	1
	02/21/97	59960	(ML/EPA 300)	Chloride	130	mg/l	3.0	3
	03/06/97		(ML/S2320-B)	Carbonate as CO3, Calculated	0.351	mg/l	0.0010	1
03/04/97	03/04/97	60245	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	02/20/97	60028	(ML/SW 7196)	Hexavalent chromium	ND	mg/l	0.005	1
	02/24/97		(ML/S2510B)	Specific Conductance	1110	umho/cm	4.0	1
03/04/97	03/04/97	60248	(EPA/ML 200.8)	Iron, Total, ICAP/MS	110	ug/l	100	1
	03/06/97		(ML/S2320B)	Bicarbonate as HCO3,calculated	341	mg/l	0.0010	1
	03/06/97	60237	(ML/S3111B)	Potassium, Flame AA	2.9	mg/l	1.0	1
	03/06/97	60260	(ML/S3111B)	Magnesium, Flame AA	46	mg/l	1.0	1
	03/06/97	60259	(ML/S3111B)	Sodium, Flame AA	54	mg/l	1.0	1
	02/21/97	59965	(ML/EPA 300.0)	Nitrate-N by IC	8.0	mg/l	0.30	3
03/04/97	03/04/97	60253	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
	02/21/97		(ML/S4500H-B)	Lab pH	7.2	Units	0.0010	1
	02/21/97	59964	(ML/EPA 300)	Sulfate	145	mg/l	6.0	3
	03/03/97	60173	(ML/EPA 365.2)	Total phosphorus-P	ND	mg/l	0.050	1
	02/25/97	60037	(ML/S2540C)	Total Dissolved Solids	730	mg/l	10	1
			Regulated VOCs plus Lists 1&3					
	02/21/97	60073	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1

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Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	02/21/97	60073	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	02/21/97	60073	(ML/EPA 524.2)	2-Chloroethylvinylether	ND	ug/l	1.0	1
	02/21/97	60073	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	02/21/97	60073	(EPA/SM 524.2)	Benzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Fluorotrichloromethane(Freon1)	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Hexachlorobutadiene	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
	02/21/97	60073	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	02/21/97	60073	(ML524.2/SW8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/l	5.0	1
	02/21/97	60073	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	1.1	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	02/21/97	60073	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	100	% Rec		
			(Surrogate)	4-Bromofluorobenzene	101	% Rec		
			(Surrogate)	Toluene-d8	94	% Rec		

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Report
Comments
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Group Comments

(524) Freon 113 recovered above QC limit in LCS analyzed on 2/21/97. Reference QIR-MS-97-006.

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QC Batch #59933 Hexavalent chromium

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Hexavalent chromium	0.050	0.0463	92.6	(78.00 - 118.00)	
LCS2	Hexavalent chromium	0.050	0.0463	92.6	(78.00 - 118.00)	0.00
MBLK	Hexavalent chromium	ND				
MS	Hexavalent chromium	0.050	0.0470	94.0	(80.00 - 120.00)	
MSD	Hexavalent chromium	0.050	0.0463	92.6	(80.00 - 120.00)	1.5

QC Batch #59960 Chloride

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Chloride	25	26.0	104.0	(90.00 - 110.00)	
LCS2	Chloride	25	25.9	103.6	(90.00 - 110.00)	0.39
MBLK	Chloride	ND				
MS	Chloride	25	25.7	102.8	(80.00 - 120.00)	
MSD	Chloride	25	25.4	101.6	(80.00 - 120.00)	1.2

QC Batch #59964 Sulfate

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Sulfate	50	52.1	104.2	(90.00 - 110.00)	
LCS2	Sulfate	50	52.1	104.2	(90.00 - 110.00)	0.00
MBLK	Sulfate	ND				
MS	Sulfate	50	53.8	107.6	(70.00 - 130.00)	
MSD	Sulfate	50	53.8	107.6	(70.00 - 130.00)	0.00

QC Batch #59965 Nitrate-N by IC

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Nitrate-N by IC	2.5	2.67	106.8	(90.00 - 110.00)	
LCS2	Nitrate-N by IC	2.5	2.68	107.2	(90.00 - 110.00)	0.37
MBLK	Nitrate-N by IC	ND				
MS	Nitrate-N by IC	2.5	2.50	100.0	(80.00 - 120.00)	
MSD	Nitrate-N by IC	2.5	2.49	99.6	(80.00 - 120.00)	0.40

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QC Batch #60021 Alkalinity

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Alkalinity	96.2	97.6	101.5	(90.00 - 110.00)	
LCS2	Alkalinity	96.2	99.6	103.5	(90.00 - 110.00)	2.0
MBLK	Alkalinity	ND				
MS	Alkalinity	96.2	87.5	91.0	(80.00 - 120.00)	
MSD	Alkalinity	96.2	86.7	90.1	(80.00 - 120.00)	0.92

QC Batch #60028 Hexavalent chromium

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Hexavalent chromium	0.050	0.0478	95.6	(78.00 - 118.00)	
LCS2	Hexavalent chromium	0.050	0.0471	94.2	(78.00 - 118.00)	1.5
MBLK	Hexavalent chromium	ND				
MS	Hexavalent chromium	0.050	0.0478	95.6	(80.00 - 120.00)	
MSD	Hexavalent chromium	0.050	0.0485	97.0	(80.00 - 120.00)	1.5

QC Batch #60037 Total Dissolved Solids

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Total Dissolved Solids	175	182	104.0	(85.00 - 115.00)	
LCS2	Total Dissolved Solids	175	184	105.1	(85.00 - 115.00)	1.1
MBLK	Total Dissolved Solids	ND				

QC Batch #60073 Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
MBLK	1,1,1,2-Tetrachloroethane	ND				
LCS1	1,1,1-Trichloroethane	4	4.37	109.2	(70.00 - 130.00)	
MBLK	1,1,1-Trichloroethane	ND				
LCS1	1,1,2,2-Tetrachloroethane	4	3.47	86.8	(70.00 - 130.00)	
MBLK	1,1,2,2-Tetrachloroethane	ND				

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LCS1	1,1,2-Trichloroethane	4	3.27	81.8	(70.00 - 130.00)
MBLK	1,1,2-Trichloroethane	ND			
LCS1	1,1-Dichloroethane	4	4.54	113.5	(70.00 - 130.00)
MBLK	1,1-Dichloroethane	ND			
LCS1	1,1-Dichloroethylene	4	5.10	127.5	(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	3.66	91.5	(70.00 - 130.00)
MBLK	1,2,4-Trichlorobenzene	ND			
MBLK	1,2,4-Trimethylbenzene	ND			
LCS1	1,2-Dichloroethane	4	3.83	95.8	(70.00 - 130.00)
MBLK	1,2-Dichloroethane	ND			
LCS1	1,2-Dichloropropane	4	3.78	94.5	(70.00 - 130.00)
MBLK	1,2-Dichloropropane	ND			
MBLK	1,3,5-Trimethylbenzene	ND			
LCS1	1,3-Dichloropropane	8	6.85	85.6	(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	4.35	108.7	(70.00 - 130.00)
MBLK	Benzene	ND			
MBLK	Bromobenzene	ND			
MBLK	Bromochloromethane	ND			
LCS1	Bromodichloromethane	4	3.77	94.2	(70.00 - 130.00)
MBLK	Bromodichloromethane	ND			
LCS1	Bromoform	4	3.50	87.5	(70.00 - 130.00)
MBLK	Bromoform	ND			
MBLK	Bromomethane (Methyl Bromide)	ND			
LCS1	Carbon Tetrachloride	4	4.65	116.3	(70.00 - 130.00)
MBLK	Carbon Tetrachloride	ND			
LCS1	Chlorobenzene	4	4.06	101.5	(70.00 - 130.00)
MBLK	Chlorobenzene	ND			
LCS1	Chlorodibromomethane	4	3.21	80.2	(70.00 - 130.00)
MBLK	Chlorodibromomethane	ND			

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MBLK	Chloroethane	ND			
LCS1	Chloroform (Trichloromethane)	4	3.99	99.8	(70.00 - 130.00)
MBLK	Chloroform (Trichloromethane)	ND			
MBLK	Chloromethane(Methyl Chloride)	ND			
MBLK	Dibromomethane	ND			
MBLK	Dichlorodifluoromethane	ND			
LCS1	Dichloromethane	4	4.38	109.5	(70.00 - 130.00)
MBLK	Dichloromethane	ND			
LCS1	Ethyl benzene	4	4.31	107.7	(70.00 - 130.00)
MBLK	Ethyl benzene	ND			
LCS1	Fluorotrichloromethane(Freon1)	2	2.32	116.0	(70.00 - 130.00)
MBLK	Fluorotrichloromethane(Freon1)	ND			
MBLK	Hexachlorobutadiene	ND			
MBLK	Isopropylbenzene	ND			
LCS1	Methyl Tert-butyl ether (MTBE)	4	3.62	90.5	(70.00 - 130.00)
MBLK	Methyl Tert-butyl ether (MTBE)	ND			
MBLK	Naphthalene	ND			
LCS1	Styrene	4	3.99	99.8	(70.00 - 130.00)
MBLK	Styrene	ND			
LCS1	Tetrachloroethylene (PCE)	4	4.78	119.5	(70.00 - 130.00)
MBLK	Tetrachloroethylene (PCE)	ND			
LCS1	Toluene	4	4.28	107.0	(70.00 - 130.00)
MBLK	Toluene	ND			
LCS1	Trichloroethylene (TCE)	4	4.38	109.5	(70.00 - 130.00)
MBLK	Trichloroethylene (TCE)	ND			
LCS1	Trichlorotrifluoroethane(Freon	2	2.69	134.5	(70.00 - 130.00)
MBLK	Trichlorotrifluoroethane(Freon	ND			
LCS1	Vinyl chloride (VC)	2	2.06	103.0	(70.00 - 130.00)
MBLK	Vinyl chloride (VC)	ND			
LCS1	cis-1,2-Dichloroethylene	4	4.18	104.5	(70.00 - 130.00)
MBLK	cis-1,2-Dichloroethylene	ND			
MBLK	cis-1,3-Dichloropropene	ND			
LCS1	m,p-Xylenes	8	8.85	110.6	(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			

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LCS1	o-Dichlorobenzene (1,2-DCB)	4	3.89	97.2	(70.00 - 130.00)
MBLK	o-Dichlorobenzene (1,2-DCB)	ND			
LCS1	o-Xylene	4	4.28	107.0	(70.00 - 130.00)
MBLK	o-Xylene	ND			
MBLK	p-Chlorotoluene	ND			
LCS1	p-Dichlorobenzene (1,4-DCB)	4	3.97	99.2	(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	5.06	126.5	(70.00 - 130.00)
MBLK	trans-1,2-Dichloroethylene	ND			
MBLK	trans-1,3-Dichloropropene	ND			

QC Batch #60173 Total phosphorus-P

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Total phosphorus-P	0.5	.427	85.4	(80.00 - 120.00)	
LCS2	Total phosphorus-P	0.5	.411	82.2	(80.00 - 120.00)	3.8
MBLK	Total phosphorus-P	ND				
MS	Total phosphorus-P	0.4	.336	84.0	(70.00 - 130.00)	
MSD	Total phosphorus-P	0.4	.333	83.2	(70.00 - 130.00)	0.90

QC Batch #60237 Potassium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Potassium, Flame AA	20	18.9	94.5	(80.00 - 120.00)	
LCS2	Potassium, Flame AA	20	19.1	95.5	(80.00 - 120.00)	1.1
MBLK	Potassium, Flame AA	ND				
MS	Potassium, Flame AA	20	18.9	94.5	(80.00 - 120.00)	
MSD	Potassium, Flame AA	20	18.9	94.5	(80.00 - 120.00)	0.00

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QC Batch #60245 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP/MS	100	104	104.0	(85.00 - 115.00)	
LCS2	Chromium, Total, ICAP/MS	100	103	103.0	(85.00 - 115.00)	0.97
MBLK	Chromium, Total, ICAP/MS	ND		0.0		
MS	Chromium, Total, ICAP/MS	100	105.	105.0	(70.00 - 130.00)	
MSD	Chromium, Total, ICAP/MS	100	108.	108.0	(70.00 - 130.00)	2.8

QC Batch #60248 Iron, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Iron, Total, ICAP/MS	500	516	103.2	(85.00 - 115.00)	
LCS2	Iron, Total, ICAP/MS	500	512	102.4	(85.00 - 115.00)	0.78
MBLK	Iron, Total, ICAP/MS	ND		0.0		
MS	Iron, Total, ICAP/MS	500	532.	106.4	(70.00 - 130.00)	
MSD	Iron, Total, ICAP/MS	500	576.	115.2	(70.00 - 130.00)	7.9

QC Batch #60253 Lead, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Lead, Total, ICAP/MS	20	20.7	103.5	(85.00 - 115.00)	
LCS2	Lead, Total, ICAP/MS	20	21.1	105.5	(85.00 - 115.00)	1.9
MBLK	Lead, Total, ICAP/MS	ND		0.0		
MS	Lead, Total, ICAP/MS	20	20.3	101.5	(70.00 - 130.00)	
MSD	Lead, Total, ICAP/MS	20	20.4	102.0	(70.00 - 130.00)	0.49

QC Batch #60259 Sodium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Sodium, Flame AA	50	50	100.0	(90.00 - 110.00)	
LCS2	Sodium, Flame AA	50	50.6	101.2	(90.00 - 110.00)	1.2
MBLK	Sodium, Flame AA	ND				

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MS	Sodium, Flame AA	50	49.6	99.2	(80.00 - 120.00)	
MSD	Sodium, Flame AA	50	48.8	97.6	(80.00 - 120.00)	1.6

QC Batch #60260 Magnesium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Magnesium, Flame AA	20	19	95.0	(90.00 - 110.00)	
LCS2	Magnesium, Flame AA	20	18.8	94.0	(90.00 - 110.00)	1.1
MBLK	Magnesium, Flame AA	ND				
MS	Magnesium, Flame AA	20	19.3	96.5	(80.00 - 120.00)	
MSD	Magnesium, Flame AA	20	19.2	96.0	(80.00 - 120.00)	0.52

QC Batch #60263 Calcium, Flame AA

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Calcium, Flame AA	50	51.1	102.2	(90.00 - 110.00)	
LCS2	Calcium, Flame AA	50	51.7	103.4	(90.00 - 110.00)	1.2
MBLK	Calcium, Flame AA	ND				
MS	Calcium, Flame AA	50	42.7	85.4	(80.00 - 120.00)	
MSD	Calcium, Flame AA	50	43.6	87.2	(80.00 - 120.00)	2.1

QC Batch #60272 Arsenic, Total, GF

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Arsenic, Total, GF	0.020	0.0203	101.5	(85.00 - 115.00)	
LCS2	Arsenic, Total, GF	0.020	0.0227	113.5	(85.00 - 115.00)	11
MBLK	Arsenic, Total, GF	ND				
MS	Arsenic, Total, GF	0.020	0.0216	108.0	(85.00 - 115.00)	
MSD	Arsenic, Total, GF	0.020	0.0218	109.0	(85.00 - 115.00)	0.92

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

Report Summary of positive results, PR32435

			Result	MDL	UNITS
Analyzed	970221001	MW-971-88			
02/21/97	Data Entry		02/28/97		--
Analyzed	970221002	MW-971-87			
02/21/97	Data Entry		02/28/97		--
Analyzed	970221003	MW-971-63			
02/21/97	Data Entry		02/28/97		--
02/21/97	Tetrachloroethylene (PCE)		1.8	.500	UGL
02/24/97	Alkalinity		180	2.000	MGL
03/09/97	Anion Sum		5.83	.001	MEQL
03/06/97	Bicarbonate as HCO3,calculated		219	.001	MGL
03/06/97	Calcium, Flame AA		65	1.000	MGL
03/06/97	Carbonate as CO3, Calculated		0.357	.001	MGL
03/09/97	Cation Sum		6.03	.001	MEQL
02/21/97	Chloride		38	2.000	MGL
03/04/97	Iron, Total, ICAP/MS		910	******	UGL
02/21/97	Lab pH		7.4	.001	UNIT
03/04/97	Lead, Total, ICAP/MS		3.5	2.000	UGL
03/06/97	Magnesium, Flame AA		20	1.000	MGL
02/21/97	Nitrate-N by IC		7.8	.200	MGL
03/06/97	Potassium, Flame AA		2.0	1.000	MGL
03/06/97	Sodium, Flame AA		25	1.000	MGL
02/24/97	Specific Conductance		530	4.000	UMHO
02/21/97	Sulfate		29	4.000	MGL
02/25/97	Total Dissolved Solids		330	10.000	MGL
Analyzed	970221004	MW-971-62			
02/21/97	Data Entry		02/28/97		--
02/21/97	Tetrachloroethylene (PCE)		1.6	.500	UGL
02/21/97	Trichloroethylene (TCE)		0.8	.500	UGL
02/24/97	Alkalinity		250	2.000	MGL
03/09/97	Anion Sum		10.1	.001	MEQL
03/06/97	Bicarbonate as HCO3,calculated		305	.001	MGL
03/06/97	Calcium, Flame AA		130	5.000	MGL
03/06/97	Carbonate as CO3, Calculated		0.627	.001	MGL
03/09/97	Cation Sum		11.3	.001	MEQL
02/21/97	Chloride		93	3.000	MGL
03/04/97	Iron, Total, ICAP/MS		1600	******	UGL
02/21/97	Lab pH		7.5	.001	UNIT
03/04/97	Lead, Total, ICAP/MS		3.2	2.000	UGL
03/06/97	Magnesium, Flame AA		38	1.000	MGL
02/21/97	Nitrate-N by IC		9.0	.300	MGL
03/06/97	Potassium, Flame AA		2.9	1.000	MGL
03/06/97	Sodium, Flame AA		36	1.000	MGL
02/24/97	Specific Conductance		905	4.000	UMHO
02/21/97	Sulfate		90	6.000	MGL
02/25/97	Total Dissolved Solids		590	10.000	MGL
Analyzed	970221005	MW-971-61			
02/21/97	Data Entry		02/28/97		--

02/21/97	Tetrachloroethylene (PCE)	1.1	.500	UGL
02/24/97	Alkalinity	280	2.000	MGL
03/09/97	Anion Sum	12.9	.001	MEQL
03/06/97	Bicarbonate as HCO3,calculated	341	.001	MGL
03/06/97	Calcium, Flame AA	150	5.000	MGL
03/06/97	Carbonate as CO3, Calculated	0.351	.001	MGL
03/09/97	Cation Sum	13.7	.001	MEQL
02/21/97	Chloride	130	3.000	MGL
03/04/97	Iron, Total, ICAP/MS	110	******	UGL
02/21/97	Lab pH	7.2	.001	UNIT
03/06/97	Magnesium, Flame AA	46	1.000	MGL
02/21/97	Nitrate-N by IC	8.0	.300	MGL
03/06/97	Potassium, Flame AA	2.9	1.000	MGL
03/06/97	Sodium, Flame AA	54	1.000	MGL
02/24/97	Specific Conductance	1110	4.000	UMHO
02/21/97	Sulfate	145	6.000	MGL
02/25/97	Total Dissolved Solids	730	10.000	MGL

MONTGOMERY WATSON LABORATORIES

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Laboratory Report

for

Foster Wheeler Environmental, Inc
611 Anton Boulevard

Suite 800

Costa Mesa , CA 92626

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

MONTGOMERY WATSON LABS.
SUBMITTED ON

MAR 12 1997

ADE*

Report#: 32461
JPL

MONTGOMERY WATSON LABORATORIES

March 13, 1997

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

Attention: Mark Cutler

Re: Report # 32461 (MW-971-90,89,60)

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):
All volatiles were analyzed within holding time with acceptable IS and surrogate recoveries.
Samples requiring dilution (with increased MRL's):
Anions by ion chromatography were diluted in sample -60. This sample was also diluted for analysis of TCE, but was also run neat.
Method blanks with compounds detected:
None
Other Comments:
TCE was detected over the MCL in sample -60.

Sincerely,

Andrew Eaton, PhD
Laboratory Director

cc: Judy Novelly (JPL)

a Division of Montgomery Watson Americas, Inc.
555 East Walnut Street
Pasadena, California 91101
Tel: 818 568 6400
Fax: 818 568 6324

Quality Environmental Analysis

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Laboratory
Report
#32461

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

Samples Received
21-feb-1997 15:09:58

MW-971-90 (970221108) Sampled on 02/21/97

Regulated VOCs plus Lists 1&3

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	02/28/97	60332	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/28/97	60332	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	02/28/97	60332	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/28/97	60332	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	02/28/97	60332	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	02/28/97	60332	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	02/28/97	60332	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	02/28/97	60332	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	02/28/97	60332	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	02/28/97	60332	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	02/28/97	60332	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	02/28/97	60332	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	02/28/97	60332	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	02/28/97	60332	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	02/28/97	60332	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	02/28/97	60332	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	02/28/97	60332	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	02/28/97	60332	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	02/28/97	60332	(ML/EPA 524.2)	2-Chloroethylvinylether	ND	ug/l	1.0	1
	02/28/97	60332	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	02/28/97	60332	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	02/28/97	60332	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	02/28/97	60332	(EPA/SM 524.2)	Benzene	ND	ug/l	0.50	1
	02/28/97	60332	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	02/28/97	60332	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	02/28/97	60332	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	02/28/97	60332	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1
	02/28/97	60332	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	02/28/97	60332	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1

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Laboratory
Report
#32461

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	02/28/97	60332	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	02/28/97	60332	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	02/28/97	60332	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	02/28/97	60332	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	02/28/97	60332	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	02/28/97	60332	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	02/28/97	60332	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	02/28/97	60332	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	02/28/97	60332	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	02/28/97	60332	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	02/28/97	60332	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	02/28/97	60332	(ML/EPA 524.2)	Fluorotrichloromethane(Freon1)	ND	ug/l	0.50	1
	02/28/97	60332	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	02/28/97	60332	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	02/28/97	60332	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	02/28/97	60332	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	02/28/97	60332	(ML524.2/SW8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/l	5.0	1
	02/28/97	60332	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	02/28/97	60332	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	02/28/97	60332	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	02/28/97	60332	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	02/28/97	60332	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	02/28/97	60332	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	02/28/97	60332	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	02/28/97	60332	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	02/28/97	60332	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	02/28/97	60332	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	02/28/97	60332	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	02/28/97	60332	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	02/28/97	60332	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	02/28/97	60332	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	02/28/97	60332	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	02/28/97	60332	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None Detected	ND			1
			(Surrogate)	1,2-Dichloroethane-d4	97	% Rec		
			(Surrogate)	4-Bromofluorobenzene	101	% Rec		

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Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
			(Surrogate)	Toluene-d8	98	% Rec		
MW-971-89 (970221109)			**Sampled on 02/21/97**					
03/04/97	03/06/97	60272	(S3113B/E200.9)	Arsenic, Total, GF	ND	mg/l	0.005	1
03/04/97	03/04/97	60245	(EPA/MS 200.8)	Chromium, Total, ICAP/MS	ND	ug/l	10	1
	02/21/97	59933	(ML/SW 7196)	Hexavalent chromium	ND	mg/l	0.005	1
03/04/97	03/04/97	60253	(EPA/ML 200.8)	Lead, Total, ICAP/MS	ND	ug/l	2.0	1
			Regulated VOCs plus Lists 1&3					
	02/27/97	60181	(ML/EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/27/97	60181	(ML/EPA 524.2)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	02/27/97	60181	(ML/EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	02/27/97	60181	(ML/EPA 524.2)	1,1,2-Trichloroethane	ND	ug/l	0.50	1
	02/27/97	60181	(ML/EPA 524.2)	1,1-Dichloroethane	ND	ug/l	0.50	1
	02/27/97	60181	(ML/EPA 524.2)	1,1-Dichloroethylene	ND	ug/l	0.50	1
	02/27/97	60181	(ML/EPA 524.2)	1,1-Dichloropropene	ND	ug/l	0.50	1
	02/27/97	60181	(ML/EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/l	0.50	1
	02/27/97	60181	(ML/EPA 524.2)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
	02/27/97	60181	(ML/EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/l	0.50	1
	02/27/97	60181	(ML/EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/l	0.50	1
	02/27/97	60181	(ML/EPA 524.2)	1,2-Dichloroethane	ND	ug/l	0.50	1
	02/27/97	60181	(ML/EPA 524.2)	1,2-Dichloropropane	ND	ug/l	0.50	1
	02/27/97	60181	(ML/EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/l	0.50	1
	02/27/97	60181	(ML/EPA 524.2)	1,3-Dichloropropane	ND	ug/l	0.50	1
	02/27/97	60181	(ML/EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	02/27/97	60181	(ML/EPA 524.2)	2,2-Dichloropropane	ND	ug/l	0.50	1
	02/27/97	60181	(ML/EPA 524.2)	2-Butanone (MEK)	ND	ug/l	5.0	1
	02/27/97	60181	(ML/EPA 524.2)	2-Chloroethylvinylether	ND	ug/l	1.0	1
	02/27/97	60181	(ML/EPA 524.2)	o-Chlorotoluene	ND	ug/l	0.50	1
	02/27/97	60181	(ML/EPA 524.2)	p-Chlorotoluene	ND	ug/l	0.50	1
	02/27/97	60181	(ML/EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
	02/27/97	60181	(EPA/SM 524.2)	Benzene	ND	ug/l	0.50	1
	02/27/97	60181	(ML/EPA 524.2)	Bromobenzene	ND	ug/l	0.50	1
	02/27/97	60181	(ML/EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/l	0.50	1
	02/27/97	60181	(ML/EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/l	0.50	1
	02/27/97	60181	(ML/EPA 524.2)	Chlorobenzene	ND	ug/l	0.50	1

Continue

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Laboratory
Report
#32461

Foster Wheeler Environmental, Inc
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MDL	Dilution
	02/27/97	60181	(ML/EPA 524.2)	Carbon Tetrachloride	ND	ug/l	0.50	1
	02/27/97	60181	(ML/EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	02/27/97	60181	(ML/EPA 524.2)	Bromoform	ND	ug/l	0.50	1
	02/27/97	60181	(ML/EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	02/27/97	60181	(ML/EPA 524.2)	Bromochloromethane	ND	ug/l	0.50	1
	02/27/97	60181	(ML/EPA 524.2)	Chloroethane	ND	ug/l	0.50	1
	02/27/97	60181	(ML/EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/l	0.50	1
	02/27/97	60181	(ML/EPA 524.2)	Chlorodibromomethane	ND	ug/l	0.50	1
	02/27/97	60181	(ML/EPA 524.2)	Dibromomethane	ND	ug/l	0.50	1
	02/27/97	60181	(ML/EPA 524.2)	Bromodichloromethane	ND	ug/l	0.50	1
	02/27/97	60181	(ML/EPA 524.2)	Dichloromethane	ND	ug/l	0.50	1
	02/27/97	60181	(ML/EPA 524.2)	Ethyl benzene	ND	ug/l	0.50	1
	02/27/97	60181	(ML/EPA 524.2)	Dichlorodifluoromethane	ND	ug/l	0.50	1
	02/27/97	60181	(ML/EPA 524.2)	Fluorotrichloromethane(Freon1)	ND	ug/l	0.50	1
	02/27/97	60181	(ML/EPA 524.2)	Hexachlorobutadiene	ND	ug/l	0.50	1
	02/27/97	60181	(ML/EPA 524.2)	Isopropylbenzene	ND	ug/l	0.50	1
	02/27/97	60181	(ML/EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.50	1
	02/27/97	60181	(ML/EPA 524.2)	m,p-Xylenes	ND	ug/l	0.50	1
	02/27/97	60181	(ML524.2/SW8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/l	5.0	1
	02/27/97	60181	(ML/EPA 524.2)	Naphthalene	ND	ug/l	0.50	1
	02/27/97	60181	(ML/EPA 524.2)	n-Butylbenzene	ND	ug/l	0.50	1
	02/27/97	60181	(ML/EPA 524.2)	n-Propylbenzene	ND	ug/l	0.50	1
	02/27/97	60181	(ML/EPA 524.2)	o-Xylene	ND	ug/l	0.50	1
	02/27/97	60181	(ML/EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	02/27/97	60181	(ML/EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	02/27/97	60181	(ML/EPA 524.2)	p-Isopropyltoluene	ND	ug/l	0.50	1
	02/27/97	60181	(ML/EPA 524.2)	sec-Butylbenzene	ND	ug/l	0.50	1
	02/27/97	60181	(ML/EPA 524.2)	Styrene	ND	ug/l	0.50	1
	02/27/97	60181	(ML/EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/l	0.50	1
	02/27/97	60181	(ML/EPA 524.2)	tert-Butylbenzene	ND	ug/l	0.50	1
	02/27/97	60181	(ML/EPA 524.2)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	02/27/97	60181	(ML/EPA 524.2)	Trichlorotrifluoroethane(Freon	ND	ug/l	0.50	1
	02/27/97	60181	(ML/EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	02/27/97	60181	(ML/EPA 524.2)	Toluene	ND	ug/l	0.50	1
	02/27/97	60181	(ML/EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.30	1
			(EPA 524.2)	None detected	ND			1