



Microbac Laboratories, Inc.
 Knoxville Division
 505 E. Broadway Avenue
 Maryville, TN 37804
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 (865) 984-8616 fax
 http://www.microbac.com
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CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · CONSUMER PRODUCTS · WATER · AIR · WASTES · FOOD · PHARMACEUTICALS · NUTRACEUTICALS

CERTIFICATE OF ANALYSIS

Chuck Moore
 City of Kingston
 125 W. Cumberland St.
 Kingston, TN 37763

Date Reported: 7/8/2010
 Date Received: 6/27/2010
 Cust #: RC120
 PO#:

Workorder: 1004367 Project: Kingston WTP Raw and Finished Water Samples

| Analyte | Result | Units | Qualifier | Reporting Limit | Analyst | Analyzed | Method |
|---------|--------|-------|-----------|-----------------|---------|----------|--------|
|---------|--------|-------|-----------|-----------------|---------|----------|--------|

Raw Sampled: 06/27/2010 06:30
 1004367-01 (Water)

Wet Chemistry

| | | | | | | | |
|------------------------|----|------|--|-----|-----|------------------|------------|
| Total Suspended Solids | ND | mg/L | | 4.0 | KDW | 06/28/2010 10:30 | SM 2540.D. |
|------------------------|----|------|--|-----|-----|------------------|------------|

Metals by EPA 200 Series Methods

| | | | | | | | |
|--------------------------|---------|------|---|----------|-----|------------------|---------------------|
| Aluminum | 0.128 | mg/L | | 0.00500 | SRR | 06/30/2010 11:54 | EPA 200.7 |
| Barium | 0.0428 | mg/L | | 0.00200 | SRR | 06/30/2010 11:54 | EPA 200.7 |
| Beryllium | ND | mg/L | | 0.00100 | SRR | 06/30/2010 11:54 | EPA 200.7 |
| Boron | 0.0295 | mg/L | | 0.00100 | SRR | 06/30/2010 11:54 | EPA 200.7 |
| Cadmium | ND | mg/L | | 0.00100 | SRR | 06/30/2010 11:54 | EPA 200.7 |
| Chromium | 0.00107 | mg/L | | 0.00100 | SRR | 06/30/2010 11:54 | EPA 200.7 |
| Cobalt | ND | mg/L | | 0.00100 | SRR | 06/30/2010 11:54 | EPA 200.7 |
| Copper | ND | mg/L | | 0.00100 | SRR | 06/30/2010 11:54 | EPA 200.7 |
| Hardness, Total as CaCO3 | 105 | mg/L | | 0.145 | SRR | 06/30/2010 12:19 | EPA 200.7, SM 2340B |
| Iron | 0.0727 | mg/L | D | 0.00600 | SRR | 06/30/2010 11:54 | EPA 200.7 |
| Magnesium | 6.83 | mg/L | | 0.00500 | SRR | 06/30/2010 11:54 | EPA 200.7 |
| Manganese | 0.0288 | mg/L | | 0.00500 | SRR | 06/30/2010 11:54 | EPA 200.7 |
| Mercury | ND | mg/L | | 0.000200 | SRR | 06/29/2010 14:36 | EPA 245.1 |
| Molybdenum | 0.00187 | mg/L | | 0.00100 | SRR | 06/30/2010 11:54 | EPA 200.7 |
| Nickel | ND | mg/L | | 0.00100 | SRR | 06/30/2010 11:54 | EPA 200.7 |
| Silver | ND | mg/L | | 0.00100 | SRR | 06/30/2010 11:54 | EPA 200.7 |
| Tin | ND | mg/L | | 0.00100 | SRR | 06/30/2010 11:54 | EPA 200.7 |
| Titanium | 0.00200 | mg/L | | 0.00100 | SRR | 06/30/2010 11:54 | EPA 200.7 |
| Zinc | 0.0102 | mg/L | | 0.00200 | SRR | 06/30/2010 11:54 | EPA 200.7 |

Subcontracted Analyses

| | | | | | | | |
|----------|----|------|--|---------|-----|------------------|-----------|
| Antimony | ND | mg/L | | 0.00500 | MTC | 07/02/2010 14:02 | EPA 200.8 |
| Arsenic | ND | mg/L | | 0.00500 | MTC | 07/02/2010 14:02 | EPA 200.8 |
| Lead | ND | mg/L | | 0.00500 | MTC | 07/02/2010 14:02 | EPA 200.8 |
| Selenium | ND | mg/L | | 0.00500 | MTC | 07/02/2010 14:02 | EPA 200.8 |
| Thallium | ND | mg/L | | 0.00100 | MTC | 07/02/2010 14:02 | EPA 200.8 |

Raw Dissolved Sampled: 06/27/2010 06:30
 1004367-02 (Water)

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 Kingston, TN 37763

Date Reported: 7/8/2010
 Date Received: 6/27/2010
 Cust #: RC120
 PO#:

Workorder: 1004367 Project: Kingston WTP Raw and Finished Water Samples

| Analyte | Result | Units | Qualifier | Reporting Limit | Analyst | Analyzed | Method |
|---------|--------|-------|-----------|-----------------|---------|----------|--------|
|---------|--------|-------|-----------|-----------------|---------|----------|--------|

Raw Dissolved Sampled: 06/27/2010 06:30
 1004367-02 (Water)

Metals (Dissolved) by EPA 200 Series Methods

| | | | | | | | |
|---------------|---------|------|---|----------|-----|------------------|-----------|
| Aluminum | 0.0220 | mg/L | | 0.00500 | SRR | 06/30/2010 13:05 | EPA 200.7 |
| Barium | 0.0447 | mg/L | B | 0.00200 | SRR | 06/30/2010 13:05 | EPA 200.7 |
| Beryllium | ND | mg/L | | 0.00100 | SRR | 06/30/2010 13:05 | EPA 200.7 |
| Boron | 0.0292 | mg/L | B | 0.00100 | SRR | 06/30/2010 13:05 | EPA 200.7 |
| Cadmium | ND | mg/L | | 0.00100 | SRR | 06/30/2010 13:05 | EPA 200.7 |
| Chromium | ND | mg/L | | 0.00100 | SRR | 06/30/2010 13:05 | EPA 200.7 |
| Cobalt | ND | mg/L | | 0.00100 | SRR | 06/30/2010 13:05 | EPA 200.7 |
| Copper | 0.00233 | mg/L | | 0.00100 | SRR | 06/30/2010 13:05 | EPA 200.7 |
| Iron | ND | mg/L | | 0.00600 | SRR | 06/30/2010 13:05 | EPA 200.7 |
| Magnesium | 6.81 | mg/L | B | 0.00500 | SRR | 06/30/2010 13:05 | EPA 200.7 |
| Manganese | ND | mg/L | | 0.00500 | SRR | 06/30/2010 13:05 | EPA 200.7 |
| Mercury | ND | mg/L | | 0.000200 | SRR | 06/29/2010 15:35 | EPA 245.1 |
| Molybdenum | 0.00183 | mg/L | | 0.00100 | SRR | 06/30/2010 13:05 | EPA 200.7 |
| Nickel | ND | mg/L | | 0.00100 | SRR | 06/30/2010 13:05 | EPA 200.7 |
| SILICA (SiO2) | 3.38 | mg/L | | 0.0107 | SRR | 06/30/2010 13:05 | EPA 200.7 |
| Silver | ND | mg/L | | 0.00100 | SRR | 06/30/2010 13:05 | EPA 200.7 |
| Tin | ND | mg/L | | 0.00100 | SRR | 06/30/2010 13:05 | EPA 200.7 |
| Titanium | ND | mg/L | | 0.00100 | SRR | 06/30/2010 13:05 | EPA 200.7 |
| Zinc | 0.00623 | mg/L | B | 0.00200 | SRR | 06/30/2010 13:05 | EPA 200.7 |

Subcontracted Analyses

| | | | | | | | |
|----------|----|------|--|---------|-----|------------------|-----------|
| Antimony | ND | mg/L | | 0.00500 | MTC | 07/02/2010 15:04 | EPA 200.8 |
| Arsenic | ND | mg/L | | 0.00500 | MTC | 07/02/2010 15:04 | EPA 200.8 |
| Lead | ND | mg/L | | 0.00500 | MTC | 07/02/2010 15:04 | EPA 200.8 |
| Selenium | ND | mg/L | | 0.00500 | MTC | 07/02/2010 15:04 | EPA 200.8 |
| Thallium | ND | mg/L | | 0.00100 | MTC | 07/02/2010 15:04 | EPA 200.8 |

Finished Sampled: 06/27/2010 06:30
 1004367-03 (Water)

Wet Chemistry

| | | | | | | | |
|------------------------|----|------|--|-----|-----|------------------|------------|
| Total Suspended Solids | ND | mg/L | | 4.0 | KDW | 06/28/2010 10:30 | SM 2540.D. |
|------------------------|----|------|--|-----|-----|------------------|------------|

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|---------|--------|-------|-----------|-----------------|---------|----------|--------|
|---------|--------|-------|-----------|-----------------|---------|----------|--------|

Finished Sampled: 06/27/2010 06:30
1004367-03 (Water)

Metals by EPA 200 Series Methods

| | | | | | | | |
|--------------------------|---------|------|---|----------|-----|------------------|---------------------|
| Aluminum | 0.117 | mg/L | | 0.00500 | SRR | 06/30/2010 12:26 | EPA 200.7 |
| Barium | 0.0260 | mg/L | | 0.00200 | SRR | 06/30/2010 12:26 | EPA 200.7 |
| Beryllium | ND | mg/L | | 0.00100 | SRR | 06/30/2010 12:26 | EPA 200.7 |
| Boron | 0.0152 | mg/L | | 0.00100 | SRR | 06/30/2010 12:26 | EPA 200.7 |
| Cadmium | ND | mg/L | | 0.00100 | SRR | 06/30/2010 12:26 | EPA 200.7 |
| Chromium | ND | mg/L | U | 0.00100 | SRR | 06/30/2010 12:26 | EPA 200.7 |
| Cobalt | ND | mg/L | | 0.00100 | SRR | 06/30/2010 12:26 | EPA 200.7 |
| Copper | 0.00251 | mg/L | | 0.00100 | SRR | 06/30/2010 12:26 | EPA 200.7 |
| Hardness, Total as CaCO3 | 65.5 | mg/L | | 0.0331 | SRR | 06/30/2010 12:26 | EPA 200.7, SM 2340B |
| Iron | ND | mg/L | | 0.00600 | SRR | 06/30/2010 12:26 | EPA 200.7 |
| Magnesium | 4.35 | mg/L | | 0.00500 | SRR | 06/30/2010 12:26 | EPA 200.7 |
| Manganese | ND | mg/L | | 0.00500 | SRR | 06/30/2010 12:26 | EPA 200.7 |
| Mercury | ND | mg/L | | 0.000200 | SRR | 06/29/2010 14:40 | EPA 245.1 |
| Molybdenum | ND | mg/L | | 0.00100 | SRR | 06/30/2010 12:26 | EPA 200.7 |
| Nickel | ND | mg/L | | 0.00100 | SRR | 06/30/2010 12:26 | EPA 200.7 |
| Silver | ND | mg/L | | 0.00100 | SRR | 06/30/2010 12:26 | EPA 200.7 |
| Tin | ND | mg/L | | 0.00100 | SRR | 06/30/2010 12:26 | EPA 200.7 |
| Titanium | ND | mg/L | | 0.00100 | SRR | 06/30/2010 12:26 | EPA 200.7 |
| Zinc | 0.00263 | mg/L | | 0.00200 | SRR | 06/30/2010 12:26 | EPA 200.7 |

Subcontracted Analyses

| | | | | | | | |
|----------|----|------|--|---------|-----|------------------|-----------|
| Antimony | ND | mg/L | | 0.00500 | MTC | 07/02/2010 15:08 | EPA 200.8 |
| Arsenic | ND | mg/L | | 0.00500 | MTC | 07/02/2010 15:08 | EPA 200.8 |
| Lead | ND | mg/L | | 0.00500 | MTC | 07/02/2010 15:08 | EPA 200.8 |
| Selenium | ND | mg/L | | 0.00500 | MTC | 07/02/2010 15:08 | EPA 200.8 |
| Thallium | ND | mg/L | | 0.00100 | MTC | 07/02/2010 15:08 | EPA 200.8 |

Finished Dissolved Sampled: 06/27/2010 06:30
1004367-04 (Water)

Metals (Dissolved) by EPA 200 Series Methods

| | | | | | | | |
|----------|-------|------|--|---------|-----|------------------|-----------|
| Aluminum | 0.108 | mg/L | | 0.00500 | SRR | 06/30/2010 13:11 | EPA 200.7 |
|----------|-------|------|--|---------|-----|------------------|-----------|

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| Analyte | Result | Units | Qualifier | Reporting Limit | Analyst | Analyzed | Method |
|---------|--------|-------|-----------|-----------------|---------|----------|--------|
|---------|--------|-------|-----------|-----------------|---------|----------|--------|

Finished Dissolved Sampled: 06/27/2010 06:30
 1004367-04 (Water)

Metals (Dissolved) by EPA 200 Series Methods

| | | | | | | | |
|---------------|---------|------|---|----------|-----|------------------|-----------|
| Barium | 0.0258 | mg/L | B | 0.00200 | SRR | 06/30/2010 13:11 | EPA 200.7 |
| Beryllium | ND | mg/L | | 0.00100 | SRR | 06/30/2010 13:11 | EPA 200.7 |
| Boron | 0.0151 | mg/L | B | 0.00100 | SRR | 06/30/2010 13:11 | EPA 200.7 |
| Cadmium | ND | mg/L | | 0.00100 | SRR | 06/30/2010 13:11 | EPA 200.7 |
| Chromium | ND | mg/L | | 0.00100 | SRR | 06/30/2010 13:11 | EPA 200.7 |
| Cobalt | ND | mg/L | | 0.00100 | SRR | 06/30/2010 13:11 | EPA 200.7 |
| Copper | 0.00241 | mg/L | | 0.00100 | SRR | 06/30/2010 13:11 | EPA 200.7 |
| Iron | ND | mg/L | | 0.00600 | SRR | 06/30/2010 13:11 | EPA 200.7 |
| Magnesium | 4.26 | mg/L | B | 0.00500 | SRR | 06/30/2010 13:11 | EPA 200.7 |
| Manganese | ND | mg/L | | 0.00500 | SRR | 06/30/2010 13:11 | EPA 200.7 |
| Mercury | ND | mg/L | | 0.000200 | SRR | 06/29/2010 15:39 | EPA 245.1 |
| Molybdenum | ND | mg/L | | 0.00100 | SRR | 06/30/2010 13:11 | EPA 200.7 |
| Nickel | ND | mg/L | | 0.00100 | SRR | 06/30/2010 13:11 | EPA 200.7 |
| SILICA (SiO2) | 4.26 | mg/L | | 0.0107 | SRR | 06/30/2010 13:11 | EPA 200.7 |
| Silver | ND | mg/L | | 0.00100 | SRR | 06/30/2010 13:11 | EPA 200.7 |
| Tin | ND | mg/L | | 0.00100 | SRR | 06/30/2010 13:11 | EPA 200.7 |
| Titanium | ND | mg/L | | 0.00100 | SRR | 06/30/2010 13:11 | EPA 200.7 |
| Zinc | 0.00440 | mg/L | B | 0.00200 | SRR | 06/30/2010 13:11 | EPA 200.7 |

Subcontracted Analyses

| | | | | | | | |
|----------|----|------|--|---------|-----|------------------|-----------|
| Antimony | ND | mg/L | | 0.00500 | MTC | 07/02/2010 15:12 | EPA 200.8 |
| Arsenic | ND | mg/L | | 0.00500 | MTC | 07/02/2010 15:12 | EPA 200.8 |
| Lead | ND | mg/L | | 0.00500 | MTC | 07/02/2010 15:12 | EPA 200.8 |
| Selenium | ND | mg/L | | 0.00500 | MTC | 07/02/2010 15:12 | EPA 200.8 |
| Thallium | ND | mg/L | | 0.00100 | MTC | 07/02/2010 15:12 | EPA 200.8 |

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Workorder: 1004367 **Project:** Kingston WTP Raw and Finished Water Samples

| Analyte | Result | Units | Qualifier | Reporting Limit | Analyst | Analyzed | Method |
|---------|--------|-------|-----------|-----------------|---------|----------|--------|
|---------|--------|-------|-----------|-----------------|---------|----------|--------|

Certifications

| Code | Description | Number | Expires |
|-------|------------------------------------|----------------|------------|
| IN_DW | Indiana State Department of Health | C-TN-03 | 04/30/2011 |
| PA | Commonwealth of Pennsylvania | 68-00725 (003) | 03/31/2011 |
| TN_DW | State of Tennessee | TN02017 | 04/30/2011 |
| USDA | US Department of Agriculture | | 11/30/2010 |

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| Analyte | Result | Units | Qualifier | Reporting Limit | Analyst | Analyzed | Method |
|---------|--------|-------|-----------|-----------------|---------|----------|--------|
|---------|--------|-------|-----------|-----------------|---------|----------|--------|

Notes and Definitions

- U Undetected
- J+ The result is an estimated quantity, but the result may be biased high
- E Concentration exceeds calibration range
- D Surrogate recoveries not calculated due to matrix interference and resulting sample dilution
- B Detected in the associated Method Blank
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

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|---------|--------|-------|-----------|-----------------|---------|----------|--------|
|---------|--------|-------|-----------|-----------------|---------|----------|--------|

Microbac Knoxville

JOE SLOAN For BROCK STONER, PROJECT MANAGER

Thank you for your business. We invite your feedback on our level of service to you. Please contact the Laboratory Director, Ashley Morris, at 865-977-1200, the COO, Robert Morgan, at rmorgan@microbac.com or the President, James Nokes, at jnokes@microbac.com with any comments or suggestions.

As regulatory limits change frequently, Microbac advises the recipient of this report to confirm such limits with the appropriate Federal, state, or local authorities before acting in reliance on the regulatory limits provided.

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Cooler Inspection Form

Client Name: Kingston Water

Date/Time Received: 6/27/10 8:00

Work Order: 1004367

No. of Samples: 2

Received By: [Signature]

Checklist Completed By: [Signature]

Carrier: FedEx() UPS() Client() Field Services() Other(): _____

- After-Hours Receipt? Yes No
- Shipping container in good condition? Yes No Not Present
- Custody seals intact on cooler? Yes No Not Present
- Custody seals intact on samples? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody includes proper client information? Yes No
- Chain of custody includes proper collection information and signatures? Yes No
- Chain of custody includes dates and times of sample collection? Yes No
- Chain of custody includes proper sample descriptions? Yes No
- Chain of custody agrees with sample labels? Yes No
- Chain of custody identifies proper sample matrix? Yes No
- Chain of custody identifies proper number of samples? Yes No
- Chain of custody includes required analysis? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Samples are in proper containers/bottles? Yes No
- Sample containers are intact? Yes No
- Sufficient sample volume collected for requested analysis? Yes No
- VOA vials for aqueous samples have zero headspace? Yes No Not Present
- Samples received within holding times? Yes No
- Samples received on ice? Yes No
- Sample properly preserved? Yes No

If No, adjusted by? _____ Date/Time: _____

Remarks: _____

ANY "NO" EVALUATION REQUIRES CLIENT NOTIFICATION (excluding After-Hours Receipt).

Comments: _____

