

**Microbac**

KNOXVILLE DIVISION  
 505 EAST BROADWAY AVE.  
 MARYVILLE, TN 37804  
 (865) 977-1200 FAX (865) 984-8616  
 http://www.microbac.com  
 E-Mail: knoxville@microbac.com

STATE CERT ID.  
 TN 02017

CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · CONSUMER PRODUCTS  
 WATER · AIR · WASTES · FOOD · PHARMACEUTICALS · NUTRACEUTICALS

**CERTIFICATE OF ANALYSIS**  
**PRELIMINARY REPORT**

CITY OF KINGSTON  
 CHUCK MOORE  
 125 W. CUMBERLAND ST.  
 KINGSTON, TN 37763

Date Reported  
 Date Received 11/12/2009  
 Cust P.O.  
 Invoice No.  
 Cust # C120  
 Sample Date 11/12/2009  
 Permit No. 0000360

Work Order Number: 0911-00476

Subject: KINGSTON WTP RAW AND FINISHED WATER SAMPLES

| Test | Method | Result | Qual | Date | Time | Tech |
|------|--------|--------|------|------|------|------|
|------|--------|--------|------|------|------|------|

001 **RAW 11/12/09 0630**

[ TAL METALS ]

| Test                     | Method            | Result       | Qual | Date       | Time  | Tech |
|--------------------------|-------------------|--------------|------|------------|-------|------|
| ALUMINUM                 | EPA 200.7         | 0.333 MG/L   | J-   | 11/16/2009 | 13:11 | SRR  |
| ANTIMONY                 | EPA 200.7         | <0.0020 MG/L | M    | 11/16/2009 | 13:11 | SRR  |
| ARSENIC                  | EPA 200.7         | 0.0329 MG/L  | M    | 11/16/2009 | 13:11 | SRR  |
| BARIUM                   | EPA 200.7         | 0.0230 MG/L  |      | 11/16/2009 | 13:11 | SRR  |
| BERYLLIUM                | EPA 200.7         | <0.0010 MG/L |      | 11/16/2009 | 13:11 | SRR  |
| CADMIUM                  | EPA 200.7         | <0.0010 MG/L |      | 11/16/2009 | 13:11 | SRR  |
| CHROMIUM                 | EPA 200.7         | <0.0010 MG/L |      | 11/16/2009 | 13:11 | SRR  |
| COBALT                   | EPA 200.7         | <0.0010 MG/L |      | 11/16/2009 | 13:11 | SRR  |
| COPPER                   | EPA 200.7         | 0.0013 MG/L  |      | 11/16/2009 | 13:11 | SRR  |
| IRON                     | EPA 200.7         | 0.349 MG/L   |      | 11/16/2009 | 13:11 | SRR  |
| LEAD                     | EPA 200.7         | <0.0010 MG/L | M    | 11/16/2009 | 13:11 | SRR  |
| MAGNESIUM                | EPA 200.7         | 3.50 MG/L    |      | 11/13/2009 | 15:01 | SRR  |
| MANGANESE                | EPA 200.7         | 0.0620 MG/L  |      | 11/16/2009 | 13:11 | SRR  |
| MOLYBDENUM               | EPA 200.7         | <0.0010 MG/L |      | 11/16/2009 | 13:11 | SRR  |
| MERCURY                  | EPA 245.1         | <0.0002 MG/L |      | 11/13/2009 | 16:44 | SRR  |
| NICKEL                   | EPA 200.7         | <0.0010 MG/L |      | 11/16/2009 | 13:11 | SRR  |
| SELENIUM                 | EPA 200.7         | <0.0020 MG/L | M    | 11/16/2009 | 13:11 | SRR  |
| SILVER                   | EPA 200.7         | <0.0010 MG/L |      | 11/16/2009 | 13:11 | SRR  |
| TIN                      | EPA 200.7         | <0.0010 MG/L |      | 11/16/2009 | 13:11 | SRR  |
| TITANIUM                 | EPA 200.7         | 0.0120 MG/L  |      | 11/16/2009 | 13:11 | SRR  |
| THALLIUM                 | EPA 200.7         | <0.0020 MG/L | M    | 11/16/2009 | 13:11 | SRR  |
| ZINC                     | EPA 200.7         | 0.0273 MG/L  |      | 11/16/2009 | 13:11 | SRR  |
| BORON                    | EPA 200.7         | 0.0061 MG/L  |      | 11/16/2009 | 13:11 | SRR  |
| SOLIDS, TOTAL SUSPENDED  | SM 2540.D.        | 9.17 MG/L    |      | 11/12/2009 | 09:00 | KDW  |
| HARDNESS, TOTAL AS CaCO3 | EPA 200.7;2340.B. | 54.5 MG/L    | J+   | 11/13/2009 | 15:01 | SRR  |



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| Test | Method | Result | Qual | Date | Time | Tech |
|------|--------|--------|------|------|------|------|
|------|--------|--------|------|------|------|------|

**002 RAW 11/12/09 0630 DISSOLVED METALS**

| Test           | Method    | Result       | Qual | Date       | Time  | Tech |
|----------------|-----------|--------------|------|------------|-------|------|
| [ TAL METALS ] |           |              |      |            | 00:00 |      |
| ALUMINUM       | EPA 200.7 | <0.0050 MG/L | J-   | 11/16/2009 | 13:27 | SRR  |
| ANTIMONY       | EPA 200.7 | <0.0020 MG/L | M    | 11/16/2009 | 13:27 | SRR  |
| ARSENIC        | EPA 200.7 | 0.0272 MG/L  | M    | 11/16/2009 | 13:27 | SRR  |
| BARIUM         | EPA 200.7 | 0.0196 MG/L  |      | 11/16/2009 | 13:27 | SRR  |
| BERYLLIUM      | EPA 200.7 | <0.0010 MG/L |      | 11/16/2009 | 13:27 | SRR  |
| CADMIUM        | EPA 200.7 | <0.0010 MG/L |      | 11/16/2009 | 13:27 | SRR  |
| CHROMIUM       | EPA 200.7 | <0.0010 MG/L |      | 11/16/2009 | 13:27 | SRR  |
| COBALT         | EPA 200.7 | <0.0010 MG/L |      | 11/16/2009 | 13:27 | SRR  |
| COPPER         | EPA 200.7 | <0.0010 MG/L |      | 11/16/2009 | 13:27 | SRR  |
| IRON           | EPA 200.7 | 0.0168 MG/L  |      | 11/16/2009 | 13:27 | SRR  |
| LEAD           | EPA 200.7 | <0.0010 MG/L | M    | 11/16/2009 | 13:27 | SRR  |
| MAGNESIUM      | EPA 200.7 | 3.37 MG/L    |      | 11/13/2009 | 15:49 | SRR  |
| MANGANESE      | EPA 200.7 | <0.0050 MG/L |      | 11/16/2009 | 13:27 | SRR  |
| MOLYBDENUM     | EPA 200.7 | <0.0010 MG/L |      | 11/16/2009 | 13:27 | SRR  |
| MERCURY        | EPA 245.1 | <0.0002 MG/L |      | 11/13/2009 | 17:09 | SRR  |
| NICKEL         | EPA 200.7 | <0.0010 MG/L |      | 11/16/2009 | 13:27 | SRR  |
| SELENIUM       | EPA 200.7 | <0.0020 MG/L | M    | 11/16/2009 | 13:27 | SRR  |
| SILVER         | EPA 200.7 | <0.0010 MG/L |      | 11/16/2009 | 13:27 | SRR  |
| TIN            | EPA 200.7 | <0.0010 MG/L |      | 11/16/2009 | 13:27 | SRR  |
| TITANIUM       | EPA 200.7 | <0.0010 MG/L |      | 11/16/2009 | 13:27 | SRR  |
| THALLIUM       | EPA 200.7 | <0.0020 MG/L | M    | 11/16/2009 | 13:27 | SRR  |
| ZINC           | EPA 200.7 | 0.0190 MG/L  |      | 11/16/2009 | 13:27 | SRR  |
| BORON          | EPA 200.7 | 0.0061 MG/L  |      | 11/16/2009 | 13:27 | SRR  |
| SILICA (SiO2)  | EPA 200.7 | 5.95 MG/L    |      | 11/13/2009 | 15:49 | SRR  |



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

003 **FINISHED 11/12/09 0630**

[ TAL METALS ]

| Test                    | Method     | Result       | Qual | Date       | Time  | Tech |
|-------------------------|------------|--------------|------|------------|-------|------|
| ALUMINUM                | EPA 200.7  | 0.0135 MG/L  | J-   | 11/16/2009 | 13:19 | SRR  |
| ANTIMONY                | EPA 200.7  | <0.0020 MG/L | M    | 11/16/2009 | 13:19 | SRR  |
| ARSENIC                 | EPA 200.7  | 0.0285 MG/L  | M    | 11/16/2009 | 13:19 | SRR  |
| BARIUM                  | EPA 200.7  | 0.0193 MG/L  |      | 11/16/2009 | 13:19 | SRR  |
| BERYLLIUM               | EPA 200.7  | <0.0010 MG/L |      | 11/16/2009 | 13:19 | SRR  |
| CADMIUM                 | EPA 200.7  | <0.0010 MG/L |      | 11/16/2009 | 13:19 | SRR  |
| CHROMIUM                | EPA 200.7  | <0.0010 MG/L |      | 11/16/2009 | 13:19 | SRR  |
| COBALT                  | EPA 200.7  | <0.0010 MG/L |      | 11/16/2009 | 13:19 | SRR  |
| COPPER                  | EPA 200.7  | 0.0022 MG/L  |      | 11/16/2009 | 13:19 | SRR  |
| IRON                    | EPA 200.7  | <0.0060 MG/L |      | 11/16/2009 | 13:19 | SRR  |
| LEAD                    | EPA 200.7  | <0.0010 MG/L | M    | 11/16/2009 | 13:19 | SRR  |
| MAGNESIUM               | EPA 200.7  | 3.44 MG/L    |      | 11/13/2009 | 15:41 | SRR  |
| MANGANESE               | EPA 200.7  | <0.0050 MG/L |      | 11/16/2009 | 13:19 | SRR  |
| MOLYBDENUM              | EPA 200.7  | <0.0010 MG/L |      | 11/16/2009 | 13:19 | SRR  |
| MERCURY                 | EPA 245.1  | <0.0002 MG/L |      | 11/13/2009 | 17:05 | SRR  |
| NICKEL                  | EPA 200.7  | <0.0010 MG/L |      | 11/16/2009 | 13:19 | SRR  |
| SELENIUM                | EPA 200.7  | <0.0020 MG/L | M    | 11/16/2009 | 13:19 | SRR  |
| SILVER                  | EPA 200.7  | <0.0010 MG/L |      | 11/16/2009 | 13:19 | SRR  |
| TIN                     | EPA 200.7  | <0.0010 MG/L |      | 11/16/2009 | 13:19 | SRR  |
| TITANIUM                | EPA 200.7  | <0.0010 MG/L |      | 11/16/2009 | 13:19 | SRR  |
| THALLIUM                | EPA 200.7  | <0.0020 MG/L | M    | 11/16/2009 | 13:19 | SRR  |
| ZINC                    | EPA 200.7  | 0.0053 MG/L  |      | 11/16/2009 | 13:19 | SRR  |
| BORON                   | EPA 200.7  | 0.0057 MG/L  |      | 11/16/2009 | 13:19 | SRR  |
| SOLIDS, TOTAL SUSPENDED | SM 2540,D. | <4.00 MG/L   |      | 11/12/2009 | 09:00 | KDW  |



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| <b>003 FINISHED 11/12/09 0630</b>                  |                   |              |      |            |       |      |
| .....continued                                     |                   |              |      |            |       |      |
| HARDNESS, TOTAL AS CaCO3                           | EPA 200.7;2340,B. | 54.3 MG/L    | J+   | 11/13/2009 | 15:41 | SRR  |
| <b>004 FINISHED 11/12/09 0630 DISSOLVED METALS</b> |                   |              |      |            |       |      |
| [ TAL METALS ]                                     |                   |              |      |            | 00:00 |      |
| ALUMINUM   | EPA 200.7         | 0.0098 MG/L  | J-   | 11/16/2009 | 13:35 | SRR  |
| ANTIMONY   | EPA 200.7         | <0.0020 MG/L | M    | 11/16/2009 | 13:35 | SRR  |
| ARSENIC  | EPA 200.7         | 0.0284 MG/L  | M    | 11/16/2009 | 13:35 | SRR  |
| BARIUM   | EPA 200.7         | 0.0193 MG/L  |      | 11/16/2009 | 13:35 | SRR  |
| BERYLLIUM  | EPA 200.7         | <0.0010 MG/L |      | 11/16/2009 | 13:35 | SRR  |
| CADMIUM  | EPA 200.7         | <0.0010 MG/L |      | 11/16/2009 | 13:35 | SRR  |
| CHROMIUM   | EPA 200.7         | <0.0010 MG/L |      | 11/16/2009 | 13:35 | SRR  |
| COBALT   | EPA 200.7         | <0.0010 MG/L |      | 11/16/2009 | 13:35 | SRR  |
| COPPER   | EPA 200.7         | 0.0021 MG/L  |      | 11/16/2009 | 13:35 | SRR  |
| IRON   | EPA 200.7         | <0.0060 MG/L |      | 11/16/2009 | 13:35 | SRR  |
| LEAD   | EPA 200.7         | <0.0010 MG/L | M    | 11/16/2009 | 13:35 | SRR  |
| MAGNESIUM  | EPA 200.7         | 3.34 MG/L    |      | 11/13/2009 | 15:57 | SRR  |
| MANGANESE  | EPA 200.7         | <0.0050 MG/L |      | 11/16/2009 | 13:35 | SRR  |
| MOLYBDENUM   | EPA 200.7         | <0.0010 MG/L |      | 11/16/2009 | 13:35 | SRR  |
| MERCURY  | EPA 245.1         | <0.0002 MG/L |      | 11/17/2009 | 14:20 | SRR  |
| NICKEL   | EPA 200.7         | <0.0010 MG/L |      | 11/16/2009 | 13:35 | SRR  |
| SELENIUM   | EPA 200.7         | <0.0020 MG/L | M    | 11/16/2009 | 13:35 | SRR  |
| SILVER   | EPA 200.7         | <0.0010 MG/L |      | 11/16/2009 | 13:35 | SRR  |
| TIN  | EPA 200.7         | <0.0010 MG/L |      | 11/16/2009 | 13:35 | SRR  |
| TITANIUM   | EPA 200.7         | <0.0010 MG/L |      | 11/16/2009 | 13:35 | SRR  |



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004 **FINISHED 11/12/09 0630 DISSOLVED METALS**  
 .....continued

|               |           |              |   |            |       |     |
|---------------|-----------|--------------|---|------------|-------|-----|
| THALLIUM      | EPA 200.7 | <0.0020 MG/L | M | 11/16/2009 | 13:35 | SRR |
| ZINC          | EPA 200.7 | 0.0064 MG/L  |   | 11/16/2009 | 13:35 | SRR |
| BORON         | EPA 200.7 | 0.0063 MG/L  |   | 11/16/2009 | 13:35 | SRR |
| SILICA (SiO2) | EPA 200.7 | 6.22 MG/L    |   | 11/13/2009 | 15:57 | SRR |

**M= THESE SAMPLES ARE REPORTED BY METHOD 200.7 FOR INFORMATIONAL PURPOSES TO PROVIDE QUICKER REPORTING. WHILE THESE REPORTED NUMBERS ARE CONSIDERED ACCURATE, TDEC APPROVED METHODS (EITHER 200.8 OR 200.9) ARE ALSO BEING ANALYZED AS VERIFICATION AND THIS REPORT WILL BE MODIFIED TO REFLECT THE METHOD CHANGE WHEN COMPLETE.**

RESPECTFULLY SUBMITTED: \_\_\_\_\_

MICROBAC LABORATORIES, INC.

*Thank you for your business. We invite your feedback on our level of service to you. Please contact the Laboratory Director, James Nokes, 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.*



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**QUALIFIER DEFINITIONS:**

- B = Detected in the associated Method Blank
- C = As Tons CaCO<sub>3</sub>, equivalent per 1,000 tons material
- D = Surrogate recoveries not calculated due to matrix interference and resulting sample dilution
- E1 = Elevated detection limits due to sample matrix interference
- E2 = Elevated detection limits due to high analyte concentration
- H = Analyte was prepared and/or analyzed outside of the analytical method holding time
- I = Spike recovery outside control limits due to sample matrix interference or high analyte concentration
- J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample
- J+ = The result is an estimated quantity, but the result may be biased high
- J- = The result is an estimated quantity, but the result may be biased low
- UJ = The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise
- K = Analyte concentration estimated due to sample matrix interference and/or high analyte concentration interference
- L1 = Liquid portion of dual phase sample analyzed only
- L2 = Solid portion of dual phase sample analyzed only
- M = Miscellaneous (see entry below analytical results)
- N = Analyte acceptable but matrix spike/matrix spike duplicate outside accepted recovery criteria
- \* = Matrix Spike/Matrix Spike Duplicate RPD is outside acceptable limits
- P = Sample received improperly preserved
- R = Relative Percent Duplicate (RPD) outside accepted recovery limits
- S1 = Spike recovery outside recovery limits
- S2 = Surrogate recovery outside of control limits. The data was accepted based on the valid recovery of remaining surrogate.
- U = Undetected
- V = Elevated reporting limits due to insufficient sample volume
- W = Results reports on dry weight basis
- Z - The parameter is considered a field analysis with an immediate to 15 minute holding time. Laboratory analysis is confirmatory in nature and is performed outside the preferred holding time window.

**ABBREVIATIONS:**

- TNTC = Too Numerous To Count
- MG/KG = Milligrams per Kilogram (PPM)
- UG/L = Micrograms per Liter (PPB)
- CFU = Colony Forming Unit



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