



Microbac Laboratories, Inc.
 Knoxville Division
 505 E. Broadway Avenue
 Maryville, TN 37804
 (865) 977-1200 phone
 (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: 8/4/2010
 Date Received: 7/28/2010
 Cust #: RC120
 PO#:

Workorder: 1005701 Project: Kingston WTP Raw and Finished Water Samples

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

Raw Sampled: 07/28/2010 06:30
 1005701-01 (Water)

Wet Chemistry

| | | | | | | | |
|---|---------|------|------|----------|-----|------------------|---------------------|
| Total Suspended Solids | 9.5 | mg/L | | 4.0 | KDW | 07/28/2010 12:20 | SM 2540.D. |
| Metals by EPA 200 Series Methods | | | | | | | |
| Aluminum | 0.394 | mg/L | *, N | 0.00500 | SRR | 07/31/2010 20:53 | EPA 200.7 |
| Barium | 0.0349 | mg/L | | 0.00200 | SRR | 07/31/2010 20:53 | EPA 200.7 |
| Beryllium | ND | mg/L | | 0.00100 | SRR | 07/31/2010 20:53 | EPA 200.7 |
| Boron | 0.0206 | mg/L | | 0.00100 | SRR | 07/31/2010 20:53 | EPA 200.7 |
| Cadmium | ND | mg/L | | 0.00100 | SRR | 07/31/2010 20:53 | EPA 200.7 |
| Chromium | ND | mg/L | | 0.00100 | SRR | 07/31/2010 20:53 | EPA 200.7 |
| Cobalt | ND | mg/L | | 0.00100 | SRR | 07/31/2010 20:53 | EPA 200.7 |
| Copper | 0.00741 | mg/L | B | 0.00100 | SRR | 07/31/2010 20:53 | EPA 200.7 |
| Hardness, Total as CaCO3 | 22.1 | mg/L | | 0.145 | SRR | 07/31/2010 21:27 | EPA 200.7, SM 2340B |
| Iron | 0.219 | mg/L | | 0.00600 | SRR | 07/31/2010 20:53 | EPA 200.7 |
| Magnesium | 5.29 | mg/L | B | 0.00500 | SRR | 07/31/2010 20:53 | EPA 200.7 |
| Manganese | 0.0332 | mg/L | | 0.00500 | SRR | 07/31/2010 20:53 | EPA 200.7 |
| Mercury | ND | mg/L | | 0.000200 | SRR | 07/29/2010 16:07 | EPA 245.1 |
| Molybdenum | 0.00124 | mg/L | | 0.00100 | SRR | 07/31/2010 20:53 | EPA 200.7 |
| Nickel | ND | mg/L | | 0.00100 | SRR | 07/31/2010 20:53 | EPA 200.7 |
| Silver | ND | mg/L | | 0.00100 | SRR | 07/31/2010 20:53 | EPA 200.7 |
| Tin | ND | mg/L | | 0.00100 | SRR | 07/31/2010 20:53 | EPA 200.7 |
| Titanium | 0.00457 | mg/L | | 0.00100 | SRR | 07/31/2010 20:53 | EPA 200.7 |
| Zinc | 0.0466 | mg/L | B, N | 0.00200 | SRR | 07/31/2010 20:53 | EPA 200.7 |
| Metals by EPA 200 Series Methods | | | | | | | |
| Antimony | <0.005 | mg/L | | 0.00500 | AM | 08/03/2010 12:52 | EPA 200.8 |
| Arsenic | <0.005 | mg/L | | 0.00500 | AM | 08/03/2010 12:52 | EPA 200.8 |
| Lead | <0.005 | mg/L | | 0.00500 | AM | 08/03/2010 12:52 | EPA 200.8 |
| Selenium | <0.005 | mg/L | | 0.00500 | AM | 08/03/2010 12:52 | EPA 200.8 |
| Thallium | <0.001 | mg/L | | 0.00100 | AM | 08/03/2010 12:52 | EPA 200.8 |

Raw Dissolved Sampled: 07/28/2010 06:30
 1005701-02 (Water)

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Date Reported: 8/4/2010
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Workorder: 1005701 Project: Kingston WTP Raw and Finished Water Samples

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

Raw Dissolved Sampled: 07/28/2010 06:30
 1005701-02 (Water)

Metals (Dissolved) by EPA 200 Series Methods

| | | | | | | | |
|---------------|---------|------|----|----------|-----|------------------|-----------|
| Aluminum | ND | mg/L | | 0.00500 | SRR | 07/31/2010 21:55 | EPA 200.7 |
| Barium | 0.0354 | mg/L | | 0.00200 | SRR | 07/31/2010 21:55 | EPA 200.7 |
| Beryllium | ND | mg/L | | 0.00100 | SRR | 07/31/2010 21:55 | EPA 200.7 |
| Boron | 0.0193 | mg/L | B | 0.00100 | SRR | 07/31/2010 21:55 | EPA 200.7 |
| Cadmium | ND | mg/L | | 0.00100 | SRR | 07/31/2010 21:55 | EPA 200.7 |
| Chromium | ND | mg/L | | 0.00100 | SRR | 07/31/2010 21:55 | EPA 200.7 |
| Cobalt | ND | mg/L | | 0.00100 | SRR | 07/31/2010 21:55 | EPA 200.7 |
| Copper | 0.00286 | mg/L | | 0.00100 | SRR | 07/31/2010 21:55 | EPA 200.7 |
| Iron | 0.0118 | mg/L | * | 0.00600 | SRR | 07/31/2010 21:55 | EPA 200.7 |
| Magnesium | 5.13 | mg/L | B | 0.00500 | SRR | 07/31/2010 21:55 | EPA 200.7 |
| Manganese | ND | mg/L | | 0.00500 | SRR | 07/31/2010 21:55 | EPA 200.7 |
| Mercury | ND | mg/L | | 0.000200 | SRR | 07/29/2010 16:45 | EPA 245.1 |
| Molybdenum | 0.00122 | mg/L | | 0.00100 | SRR | 07/31/2010 21:55 | EPA 200.7 |
| Nickel | ND | mg/L | | 0.00100 | SRR | 07/31/2010 21:55 | EPA 200.7 |
| SILICA (SiO2) | 4.29 | mg/L | | 0.0107 | SRR | 07/31/2010 21:55 | EPA 200.7 |
| Silver | ND | mg/L | J- | 0.00100 | SRR | 07/31/2010 21:55 | EPA 200.7 |
| Tin | ND | mg/L | | 0.00100 | SRR | 07/31/2010 21:55 | EPA 200.7 |
| Titanium | ND | mg/L | | 0.00100 | SRR | 07/31/2010 21:55 | EPA 200.7 |
| Zinc | 0.0108 | mg/L | B | 0.00200 | SRR | 07/31/2010 21:55 | EPA 200.7 |

Metals (Dissolved) by EPA 200 Series Methods

| | | | | | | | |
|----------|--------|------|--|---------|----|------------------|-----------|
| Antimony | <0.005 | mg/L | | 0.00500 | AM | 08/03/2010 12:52 | EPA 200.8 |
| Arsenic | <0.005 | mg/L | | 0.00500 | AM | 08/03/2010 12:52 | EPA 200.8 |
| Lead | <0.005 | mg/L | | 0.00500 | AM | 08/03/2010 12:52 | EPA 200.8 |
| Selenium | <0.005 | mg/L | | 0.00500 | AM | 08/03/2010 12:52 | EPA 200.8 |
| Thallium | <0.001 | mg/L | | 0.00100 | AM | 08/03/2010 12:52 | EPA 200.8 |

Finished Sampled: 07/28/2010 06:30
 1005701-03 (Water)

Wet Chemistry

| | | | | | | | |
|------------------------|----|------|--|-----|-----|------------------|------------|
| Total Suspended Solids | ND | mg/L | | 4.0 | KDW | 07/28/2010 12:20 | SM 2540,D. |
|------------------------|----|------|--|-----|-----|------------------|------------|

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

Finished Sampled: 07/28/2010 06:30
 1005701-03 (Water)

Metals by EPA 200 Series Methods

| | | | | | | | |
|--------------------------|---------|------|------|----------|-----|------------------|---------------------|
| Aluminum | 0.0812 | mg/L | *, N | 0.00500 | SRR | 07/31/2010 21:33 | EPA 200.7 |
| Barium | 0.0278 | mg/L | | 0.00200 | SRR | 07/31/2010 21:33 | EPA 200.7 |
| Beryllium | ND | mg/L | | 0.00100 | SRR | 07/31/2010 21:33 | EPA 200.7 |
| Boron | 0.0135 | mg/L | | 0.00100 | SRR | 07/31/2010 21:33 | EPA 200.7 |
| Cadmium | ND | mg/L | | 0.00100 | SRR | 07/31/2010 21:33 | EPA 200.7 |
| Chromium | ND | mg/L | | 0.00100 | SRR | 07/31/2010 21:33 | EPA 200.7 |
| Cobalt | ND | mg/L | | 0.00100 | SRR | 07/31/2010 21:33 | EPA 200.7 |
| Copper | 0.00538 | mg/L | B | 0.00100 | SRR | 07/31/2010 21:33 | EPA 200.7 |
| Hardness, Total as CaCO3 | 62.3 | mg/L | | 0.0331 | SRR | 07/31/2010 21:33 | EPA 200.7, SM 2340B |
| Iron | ND | mg/L | | 0.00600 | SRR | 07/31/2010 21:33 | EPA 200.7 |
| Magnesium | 4.38 | mg/L | B | 0.00500 | SRR | 07/31/2010 21:33 | EPA 200.7 |
| Manganese | ND | mg/L | | 0.00500 | SRR | 07/31/2010 21:33 | EPA 200.7 |
| Mercury | ND | mg/L | | 0.000200 | SRR | 07/29/2010 16:12 | EPA 245.1 |
| Molybdenum | ND | mg/L | | 0.00100 | SRR | 07/31/2010 21:33 | EPA 200.7 |
| Nickel | ND | mg/L | | 0.00100 | SRR | 07/31/2010 21:33 | EPA 200.7 |
| Silver | ND | mg/L | | 0.00100 | SRR | 07/31/2010 21:33 | EPA 200.7 |
| Tin | ND | mg/L | | 0.00100 | SRR | 07/31/2010 21:33 | EPA 200.7 |
| Titanium | ND | mg/L | | 0.00100 | SRR | 07/31/2010 21:33 | EPA 200.7 |
| Zinc | 0.00618 | mg/L | B, N | 0.00200 | SRR | 07/31/2010 21:33 | EPA 200.7 |

Metals by EPA 200 Series Methods

| | | | | | | | |
|----------|--------|------|--|---------|----|------------------|-----------|
| Antimony | <0.005 | mg/L | | 0.00500 | AM | 08/03/2010 12:52 | EPA 200.8 |
| Arsenic | <0.005 | mg/L | | 0.00500 | AM | 08/03/2010 12:52 | EPA 200.8 |
| Lead | <0.005 | mg/L | | 0.00500 | AM | 08/03/2010 12:52 | EPA 200.8 |
| Selenium | <0.005 | mg/L | | 0.00500 | AM | 08/03/2010 12:52 | EPA 200.8 |
| Thallium | <0.001 | mg/L | | 0.00100 | AM | 08/03/2010 12:52 | EPA 200.8 |

Finished Dissolved Sampled: 07/28/2010 06:30
 1005701-04 (Water)

Metals (Dissolved) by EPA 200 Series Methods

| | | | | | | | |
|----------|--------|------|--|---------|-----|------------------|-----------|
| Aluminum | 0.0688 | mg/L | | 0.00500 | SRR | 07/31/2010 22:01 | EPA 200.7 |
|----------|--------|------|--|---------|-----|------------------|-----------|

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

Finished Dissolved Sampled: 07/28/2010 06:30
 1005701-04 (Water)

Metals (Dissolved) by EPA 200 Series Methods

| | | | | | | | |
|---------------|---------|------|----|----------|-----|------------------|-----------|
| Barium | 0.0265 | mg/L | | 0.00200 | SRR | 07/31/2010 22:01 | EPA 200.7 |
| Beryllium | ND | mg/L | | 0.00100 | SRR | 07/31/2010 22:01 | EPA 200.7 |
| Boron | 0.0120 | mg/L | B | 0.00100 | SRR | 07/31/2010 22:01 | EPA 200.7 |
| Cadmium | ND | mg/L | | 0.00100 | SRR | 07/31/2010 22:01 | EPA 200.7 |
| Chromium | ND | mg/L | | 0.00100 | SRR | 07/31/2010 22:01 | EPA 200.7 |
| Cobalt | ND | mg/L | | 0.00100 | SRR | 07/31/2010 22:01 | EPA 200.7 |
| Copper | 0.00489 | mg/L | | 0.00100 | SRR | 07/31/2010 22:01 | EPA 200.7 |
| Iron | ND | mg/L | * | 0.00600 | SRR | 07/31/2010 22:01 | EPA 200.7 |
| Magnesium | 4.19 | mg/L | B | 0.00500 | SRR | 07/31/2010 22:01 | EPA 200.7 |
| Manganese | ND | mg/L | | 0.00500 | SRR | 07/31/2010 22:01 | EPA 200.7 |
| Mercury | ND | mg/L | | 0.000200 | SRR | 07/29/2010 16:49 | EPA 245.1 |
| Molybdenum | ND | mg/L | | 0.00100 | SRR | 07/31/2010 22:01 | EPA 200.7 |
| Nickel | ND | mg/L | | 0.00100 | SRR | 07/31/2010 22:01 | EPA 200.7 |
| SILICA (SiO2) | 5.19 | mg/L | | 0.0107 | SRR | 07/31/2010 22:01 | EPA 200.7 |
| Silver | ND | mg/L | J- | 0.00100 | SRR | 07/31/2010 22:01 | EPA 200.7 |
| Tin | ND | mg/L | | 0.00100 | SRR | 07/31/2010 22:01 | EPA 200.7 |
| Titanium | ND | mg/L | | 0.00100 | SRR | 07/31/2010 22:01 | EPA 200.7 |
| Zinc | 0.00826 | mg/L | B | 0.00200 | SRR | 07/31/2010 22:01 | EPA 200.7 |

Metals (Dissolved) by EPA 200 Series Methods

| | | | | | | | |
|----------|--------|------|--|---------|----|------------------|-----------|
| Antimony | <0.005 | mg/L | | 0.00500 | AM | 08/03/2010 12:52 | EPA 200.8 |
| Arsenic | <0.005 | mg/L | | 0.00500 | AM | 08/03/2010 12:52 | EPA 200.8 |
| Lead | <0.005 | mg/L | | 0.00500 | AM | 08/03/2010 12:52 | EPA 200.8 |
| Selenium | <0.005 | mg/L | | 0.00500 | AM | 08/03/2010 12:52 | EPA 200.8 |
| Thallium | <0.001 | mg/L | | 0.00100 | AM | 08/03/2010 12:52 | EPA 200.8 |

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Certifications

| Code | Description | Number | Expires |
|-------|--|----------------|------------|
| EPA | Environmental Protection Agency | TN00020 | |
| IN_DW | Indiana State Department of Health | C-TN-03 | 04/30/2011 |
| KY_DW | Commonwealth of Kentucky | 90067 | 12/31/2010 |
| NELAP | Florida Department of Health | E87978 | 06/30/2010 |
| PA | Commonwealth of Pennsylvania | 68-00725 (003) | 03/31/2011 |
| TN_DW | State of Tennessee | TN02003 | 03/12/2011 |
| TN_DW | State of Tennessee | TN02017 | 04/30/2011 |
| USDA | US Department of Agriculture | | 11/30/2010 |
| VA_DW | Commonwealth of Virginia | 00335 | 06/30/2010 |
| WV_DW | West Virginia Department of Health and Human Resou | 9956 C | 12/31/2010 |

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

Notes and Definitions

- N Analyte acceptable but matrix spike/matrix spike duplicate outside accepted recovery criteria
- M2 <0.005
- M1 <0.001
- 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
- B Detected in the associated Method Blank
- * Relative Percent Duplicate (RPD) outside accepted recovery limits.
- 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, LAB 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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1005701-01 A
City of Kingston

Raw

Sampled: 07/28/2010 06:30
Water-B-1000ml Plastic HNO3 to pH <2

MICROBAC LABORATORIES, INC
KNOXVILLE DIVISION
505 EAST BROADWAY
MARYVILLE, TN 37804
PHONE: (865) 977-1200 FAX: (865) 984-8616



| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|--|---|--------------|---|---|---|---|---|------------------|---|---|---|---|---|-----|---|---|---|---|---|----------|---|---|---|---|---|------------------|---|---|---|---|---|
| <p>Water System Name: KINGSTON WATER</p> | | <p>Report to: Chuck Moore Address: 125 W. CUMBERLAND ST. KINGSTON, TN 37763</p> | | <p>Invoice to: James Pinkerton Address: Same</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>PWSID: 0000360 County: ROANE State (of sample origin): TN</p> | | <p>Phone: 865-376-7187 Fax: 865-376-1654 E-mail: kingstonwater@bellsouth.net</p> | | <p>P.O. #: Quote #:</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Compliance Monitoring: <input type="checkbox"/> Yes <input type="checkbox"/> No State Reported: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Chlorinated: <input type="checkbox"/> Yes <input type="checkbox"/> No</p> | | <p>ANALYSIS REQUIRED</p> <table border="1"> <tr> <td>Total Metals</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>Dissolved Metals</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>TSS</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>Hardness</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>Dissolved Silica</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> </table> | | | | Total Metals | X | X | X | X | X | Dissolved Metals | X | X | X | X | X | TSS | X | X | X | X | X | Hardness | X | X | X | X | X | Dissolved Silica | X | X | X | X | X |
| Total Metals | X | X | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dissolved Metals | X | X | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TSS | X | X | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hardness | X | X | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dissolved Silica | X | X | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>(1) Sample Matrix</p> <p>DW = Drinking Water RW = Reagent Water GW = Ground Water SW = Surface Water</p> | | <p>FOR LAB CHECK-IN ONLY Temp Rec'd: 2.9 °C Property Preserved: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Remarks: pH < 2.0 Metals containers</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>(2) Sample Type</p> <p>B = Entry Point E = Composite D = Distribution S = Special</p> | | <p>Special Instructions / Comments... * All are grab samples. * Placed immediately on ice. * Finish samples are Chlorinated.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Sample Identification</p> | | <p>Special Instructions / Comments... * All are grab samples. * Placed immediately on ice. * Finish samples are Chlorinated.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Sample Date</p> | | <p>Customer # C120 Project C120-COK01 Job Temp.:</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Sample Time</p> | | <p>Received By: [Signature] Date: 7/28/10 Time: 8:00</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Raw</p> | | <p>Relinquished By: [Signature] Date: 7/28/10 Time: 8:00</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Finished</p> | | <p>Relinquished By: [Signature] Date: 7/28/10 Time: 8:00</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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Maryville, TN 37804



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Fax: (865) 984-8616
www.microbac.com

Cooler Inspection Form

Client Name: Kingston Water Date/Time Received: 7/28/10 8:00

Work Order: 1005701 No. of Samples: 2

Received By: ALB Checklist Completed By: ALB

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: _____

