CASE NARRATIVE
This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted. For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669.

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative.

Analysis Comments: AA82128-A E. Coli Holding Time - IDEXX Colilert

Sample analysis proceeded despite out of hold time; per customer instructions.

ANALYTICAL RESULTS

<table>
<thead>
<tr>
<th>Analyses</th>
<th>NELAC</th>
<th>Analysis Method</th>
<th>Result</th>
<th>Units</th>
<th>Qualifier</th>
<th>Reporting Limit</th>
<th>QC Batch Number</th>
<th>Analysis Date</th>
<th>Time</th>
<th>Analyst</th>
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<tbody>
<tr>
<td>AA82128-A E. coli</td>
<td>√</td>
<td>SM 9223B-2004</td>
<td>160</td>
<td>MPN/100 mL</td>
<td>*H</td>
<td>1</td>
<td>35846</td>
<td>8/16/13</td>
<td>14:34</td>
<td>RSC/ZJ</td>
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<tr>
<td>AA82128-A E. Coli Holding Time - IDEXX Colilert</td>
<td>NA</td>
<td>17.23</td>
<td>hours</td>
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<td>8/16/13</td>
<td>14:34</td>
<td>RSC/ZJ</td>
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<td></td>
</tr>
</tbody>
</table>

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable
## QC ANALYTICAL RESULTS

<table>
<thead>
<tr>
<th>QC Batch Name</th>
<th>QC Analyte Name</th>
<th>Result</th>
<th>Units</th>
<th>Qualifier</th>
<th>Acceptance Criteria</th>
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<tr>
<td>E_COLI_QUANTITRAY-35846</td>
<td>Initial Blank for E. coli</td>
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<td></td>
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</tbody>
</table>

**Acceptance Criteria**

- A - Outside upper acceptance criteria
- D - Outside lower acceptance criteria
- T - Microbiological Controls were unacceptable
- H - Hold Time for preparation or analysis exceeded
- J - Analyte detected outside quantitation limit
- * - See Case Narrative
- --- - Not Applicable

**Date**

8/22/2013

Patricia M. Carvajal
Quality Control & Data Management Supervisor
Environmental Sciences Department Laboratory

ANALYTICAL REPORT

August 22, 2013

Client: Edwards Aquifer Authority
Mark Hamilton
1615 N. Saint Mary's St.
San Antonio, TX 78215
Fax #: 210-222-9869

Collection Date/Time: 8/15/13 23:20
Receipt Date/Time: 8/16/13 09:27

Sample Location: HSM 210-2
Sample Number: AA82129
Sample Matrix: Non Potable Water

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.

For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative.

Analysis Comments: AA82129-A  E. coli
Sample analysis proceeded despite out of hold time; per customer instructions.

ANALYTICAL RESULTS

<table>
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<td>150</td>
<td>MPN/100 mL</td>
<td>&quot;H&quot;</td>
<td>1</td>
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<td>RSC/ZJ</td>
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<tr>
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<td>8/16/13</td>
<td>14:34</td>
<td>RSC/ZJ</td>
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</table>

- A - Outside upper acceptance criteria
- D - Outside lower acceptance criteria
- T - Microbiological Controls were unacceptable
- H - Hold Time for preparation or analysis exceeded
- J - Analyte detected outside quantitation limit
- * - See Case Narrative
- --- - Not Applicable
QC ANALYTICAL RESULTS

**QC Batch Name:** E.COLI_QUANITTRAY-35846

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<th>Result</th>
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<tr>
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</table>

Patricia M. Carvajal
Quality Control & Data Management Supervisor

Date

8/22/2013

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

The data in this report is current as of:8/22/2013 10:32:06 AM as released by PMC
CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted. For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis comments: AA82130-A  E. coli Sample analysis proceeded despite out of hold time; per customer instructions.

ANALYTICAL RESULTS

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<tr>
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<th>Result</th>
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<th>Time</th>
<th>Analysis</th>
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<tr>
<td>AA82130-A E. coli</td>
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<td>MPN/100 mL</td>
<td>*H</td>
<td>1</td>
<td>35846</td>
<td>8/16/13</td>
<td>14:34</td>
<td>RSC/ZJ</td>
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<tr>
<td>AA82130-A E. Coli Holding Time - IDEXX Colierr</td>
<td>NA</td>
<td>NA</td>
<td>16.57</td>
<td>hours</td>
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<td>8/16/13</td>
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<td>RSC/ZJ</td>
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</tr>
</tbody>
</table>

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

The data in this report is current as of 8/22/2013 10:32:06AM as released by PMC.
**QC ANALYTICAL RESULTS**

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<tr>
<th>QC Analyte Name</th>
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<th>Qualifier</th>
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<th>Target</th>
<th>Upper</th>
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</thead>
<tbody>
<tr>
<td>Initial Blank for E. coli</td>
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<td></td>
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</tr>
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</table>

**Acceptance Criteria**

- A - Outside upper acceptance criteria
- D - Outside lower acceptance criteria
- T - Microbiological Controls were unacceptable
- H - Hold Time for preparation or analysis exceeded
- J - Analyte detected outside quantitation limit
- * - See Case Narrative
- --- - Not Applicable

**Date:** 8/22/2013

Patricia M. Carvajal  
Quality Control & Data Management Supervisor
CASE NARRATIVE

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For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative.

Analysis Comments: AA82131-A E. coli
Sample analysis proceeded despite out of hold time; per customer instructions.

ANALYTICAL RESULTS

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<td>RSC/ZJ</td>
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</tr>
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</table>

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable
<table>
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<th>QC Analyte Name</th>
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<th>Qualifier</th>
<th>Lower</th>
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<td>Initial Blank for E. coli</td>
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**Acceptance Criteria**

- **A** - Outside upper acceptance criteria
- **D** - Outside lower acceptance criteria
- **T** - Microbiological Controls were unacceptable
- **H** - Hold Time for preparation or analysis exceeded
- **J** - Analyte detected outside quantitation limit
- ***** - See Case Narrative
- **---** - Not Applicable

**QC ANALYTICAL RESULTS**

- **QC Batch Name:** E_COLI_QUANTITRAY-35846
- **QC Analyte Name:** Initial Blank for E. coli
- **Result:** Absent
- **Units:** ---
- **Qualifier:** ---
- **Lower:** Absent
- **Target:** ---
- **Upper:** ---

**Date:** 8/22/2013

**Patricia M. Carvajal**
Quality Control & Data Management Supervisor
CASE NARRATIVE

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Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative.

Analysis Comments: AA82132-A E. coli

Sample analysis proceeded despite out of hold time; per customer instructions.

ANALYTICAL RESULTS

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<tbody>
<tr>
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<td>8/16/13</td>
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<td>RSC/ZJ</td>
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<tr>
<td>AA82132-A E. Coli Holding Time - IDEXX Colliert</td>
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<td>35845</td>
<td>8/16/13</td>
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<td>RSC/ZJ</td>
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</table>
### QC ANALYTICAL RESULTS

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</table>

**8/22/2013**

Patricia M. Carvajal  
Quality Control & Data Management Supervisor

---

A - Outside upper acceptance criteria  
D - Outside lower acceptance criteria  
T - Microbiological Controls were unacceptable  
H - Hold Time for preparation or analysis exceeded  
J - Analyte detected outside quantitation limit  
* - See Case Narrative  
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**CASE NARRATIVE**

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Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative.

**Analysis Comments:** AA82133-A  E. coli

Sample analysis proceeded despite out of hold time; per customer instructions.

**ANALYTICAL RESULTS**

<table>
<thead>
<tr>
<th>Analyses</th>
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<th>Analyst</th>
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<td>RSC/ZJ</td>
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</tbody>
</table>

A - Outside upper acceptance criteria  
D - Outside lower acceptance criteria  
T - Microbiological Controls were unacceptable  
H - Hold Time for preparation or analysis exceeded  
J - Analyte detected outside quantitation limit  
* - See Case Narrative  
--- - Not Applicable
**QC ANALYTICAL RESULTS**

<table>
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<tr>
<th>QC Analyte Name</th>
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**Acceptance Criteria**

- **A**: Outside upper acceptance criteria
- **D**: Outside lower acceptance criteria
- **T**: Microbiological Controls were unacceptable
- **H**: Hold Time for preparation or analysis exceeded
- **J**: Analyte detected outside quantitation limit
- *****: See Case Narrative
- **---**: Not Applicable

--- Patricia M. Carvajal  
Quality Control & Data Management Supervisor

--- Patricia M. Carvajal  
Date: 8/22/2013
CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted. For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669.

Analysis identified with a "✓" complies with NELAP requirements unless otherwise specified in the case narrative.

Analysis Comments: AA82134-A E. coli

Sample analysis resumed despite being out of hold time; per customer instructions.

ANALYTICAL RESULTS

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<td>H</td>
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<td>14:34</td>
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<td>AA82134-A</td>
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<td>E. Coli Holding Time - IDEXX Colilert</td>
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<td>8/16/13</td>
<td>14:34</td>
<td>RSC/ZJ</td>
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</tbody>
</table>

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable
### QC ANALYTICAL RESULTS

<table>
<thead>
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<th>QC Analyte Name</th>
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<th>Qualifier</th>
<th>Lower</th>
<th>Target</th>
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**QC Batch Name:** E_COLI_QUANTITRAY-35846

Patricia M. Carvajal
Quality Control & Data Management Supervisor

---

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable
CASE NARRATIVE

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Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative.

Analysis Comments: AA82135-A  E. coli
Sample analysis proceeded despite out of hold time; per customer instructions.

ANALYTICAL RESULTS

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<td>35846</td>
<td>8/16/13 14:34</td>
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<td>35845</td>
<td>8/16/13 14:34</td>
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</tr>
</tbody>
</table>

A - Outside upper acceptance criteria  
D - Outside lower acceptance criteria  
H - Hold Time for preparation or analysis exceeded  
J - Analyte detected outside quantitation limit  
* - See Case Narrative  
--- - Not Applicable
# QC ANALYTICAL RESULTS

<table>
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<tr>
<th>QC Analyte Name</th>
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<th>Qualifier</th>
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<tr>
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**QC Batch Name:** E.COLI_QUANTITRAY-35846

**QC Analyte Name:** Initial Blank for E. coli

<table>
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**QC Analyte Name:** Initial Blank for E. coli

**Result:** Absent

**Units:**

**Qualifier:**

<table>
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</thead>
</table>

---

Patricia M. Carvajal  
Quality Control & Data Management Supervisor

P.M. Carvajal

8/22/2013

Date
Environmental Sciences Department Laboratory
ANALYTICAL REPORT

August 22, 2013

Client: Edwards Aquifer Authority
Mark Hamilton
1615 N. Saint Mary’s St.
San Antonio, TX 78215
Fax #: 210-222-9869

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Sample Location: HSM 240-1
Sample Number: AA82136
Sample Matrix: Non Potable Water

Collection Date/Time: 8/15/13 21:45
Receipt Date/Time: 8/16/13 09:27

CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted.

For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative.

Analysis Comments: AA82136-A  E. coli
Sample analysis proceeded despite out of hold time; per customer instructions.

ANALYTICAL RESULTS

<table>
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<tr>
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<th>Reporting Limit</th>
<th>QC Batch Number</th>
<th>Analysis Date/Time</th>
<th>Analyst</th>
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A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable
H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit
* - See Case Narrative
--- - Not Applicable

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QC ANALYTICAL RESULTS

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Patricia M. Carvajal
Quality Control & Data Management Supervisor

8/22/2013

Date

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CASE NARRATIVE

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Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative.

Analysis Comments: AA82137-A  E. coli
Sample analysis proceeded despite out of hold time; per customer instructions.

ANALYTICAL RESULTS

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A - Outside upper acceptance criteria
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8/22/2013

Patricia M. Carvajal
Quality Control & Data Management Supervisor
CASE NARRATIVE

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Analysis Comments:  AA82138-A   E. coli
Sample analysis proceeded despite out of hold time; per customer instructions.

ANALYTICAL RESULTS

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## QC ANALYTICAL RESULTS

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**Acceptance Criteria**

- A - Outside upper acceptance criteria
- D - Outside lower acceptance criteria
- T - Microbiological Controls were unacceptable
- H - Hold Time for preparation or analysis exceeded
- J - Analyte detected outside quantitation limit
- * - See Case Narrative
- --- - Not Applicable

**QC Batch Name:** E.COLI_QUANTITRAY-35848

**QC Analyte Name:** Initial Blank for E. coli

**Result:** Absent

**Units:**

**Qualifier:**

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**Date:** 8/22/2013

**Patricia M. Carvajal**
Quality Control & Data Management Supervisor

---

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CASE NARRATIVE

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Analysis Comments: AA82139-A E. coli
Sample analysis proceeded despite out of hold time; per customer instructions.

ANALYTICAL RESULTS

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A - Outside upper acceptance criteria
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8/22/2013

Patricia M. Carvajal
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CASE NARRATIVE

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Analysis Comments: AA82140-A  E. coli

Sample analysis proceeded despite out of hold time; per customer instructions.

ANALYTICAL RESULTS

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A - Outside upper acceptance criteria
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T - Microbiological Controls were unacceptable

* - See Case Narrative
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**QC ANALYTICAL RESULTS**

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**Acceptance Criteria**

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</tr>
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<td><strong>T</strong> - Microbiological Controls were unacceptable</td>
</tr>
<tr>
<td><strong>H</strong> - Hold Time for preparation or analysis exceeded</td>
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<td><strong>J</strong> - Analyte detected outside quantitation limit</td>
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* - See Case Narrative
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8/22/2013

Patricia M. Carvajal
Quality Control & Data Management Supervisor

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Quality Control & Data Management Supervisor
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Analysis Comments: AA82141-A E. coli

Sample analysis proceeded despite out of hold time; per customer instructions.

ANALYTICAL RESULTS

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## QC ANALYTICAL RESULTS

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**Acceptance Criteria**

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- D - Outside lower acceptance criteria
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**QC Batch Name:** E.COLI_QUANTITRAY-35848

8/22/2013

Date

Patricia M. Carvajal
Quality Control & Data Management Supervisor

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Analysis Comments:  AA82142-A  E. coli
Sample analysis proceeded despite out of hold time; per customer instructions.

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**QC Batch Name:** E_COLI_QUANTITRAY-35848

### Acceptance Criteria

- A - Outside upper acceptance criteria
- D - Outside lower acceptance criteria
- T - Microbiological Controls were unacceptable

- H - Hold Time for preparation or analysis exceeded
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* - See Case Narrative
--- - Not Applicable

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**Patricia M. Carvajal**
Quality Control & Data Management Supervisor

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**Date:** 8/22/2013

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Analysis Comments: AA82143-A  E. coli

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Patricia M. Carvajal  
Quality Control & Data Management Supervisor

Date: 8/22/2013

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D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
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--- - Not Applicable

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Analysis Comments: AA82144-A E. coli

Sample analysis proceeded despite out of hold time; per customer instructions.

ANALYTICAL RESULTS

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**Target**

- Lower: ---
- Target: Absent
- Upper: ---

**QC Batch Name:** E_COLI_QUANTITRAY-35848

---

**Date:**

8/22/2013

---

Patricia M. Carvajal
Quality Control & Data Management Supervisor

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A - Outside upper acceptance criteria
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CASE NARRATIVE

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For questions regarding this report, please contact David Hernandez, Laboratory Supervisor, at (210) 302-3669

Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative.

Analysis Comments: AA82145-A  E. coli
Sample analysis proceeded despite out of hold time; per customer instructions.

ANALYTICAL RESULTS

<table>
<thead>
<tr>
<th>Analyses</th>
<th>NELAC</th>
<th>Analysis Method</th>
<th>Result</th>
<th>Units</th>
<th>Qualifier</th>
<th>Reporting Limit</th>
<th>QC Batch Number</th>
<th>Analysis Date</th>
<th>Time</th>
<th>Analyst</th>
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<tr>
<td>AA82145-A</td>
<td></td>
<td>SM 9223B-2004</td>
<td>6900</td>
<td>MPN/100 mL</td>
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<td>AA82145-A</td>
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<td>E. Coli Holding Time - IDEXX Colliert</td>
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<td>0.00</td>
<td>35847</td>
<td>8/16/13</td>
<td>14:53</td>
<td>RSC/ZJ</td>
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A - Outside upper acceptance criteria  
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H - Hold Time for preparation or analysis exceeded  
J - Analyte detected outside quantitation limit  
* - See Case Narrative  
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**QC ANALYTICAL RESULTS**

<table>
<thead>
<tr>
<th>QC Analyte Name</th>
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<th>Units</th>
<th>Qualifier</th>
<th>Lower</th>
<th>Target</th>
<th>Upper</th>
<th>Acceptance Criteria</th>
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<tr>
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</table>

**8/22/2013**

Patricia M. Carvajal  
Quality Control & Data Management Supervisor

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Analysis Comments: AA82146-A  E. coli
Sample analysis proceeded despite out of hold time; per customer instructions.

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<tr>
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<th>Analysis Time</th>
<th>Analyst</th>
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<td>MPN/100 mL</td>
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<td>RSC/ZJ</td>
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</tbody>
</table>

**Acceptance Criteria**

- **A** - Outside upper acceptance criteria
- **D** - Outside lower acceptance criteria
- **T** - Microbiological Controls were unacceptable
- **H** - Hold Time for preparation or analysis exceeded
- **J** - Analyte detected outside quantitation limit
- ***** - See Case Narrative
- **---** - Not Applicable

**QC Batch Name:** E COLI QUANTITRAY-35850

**Date:** 8/22/2013

**Patricia M. Carvajal**
Quality Control & Data Management Supervisor

**Date:** 8/22/2013
CASE NARRATIVE

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Analysis identified with a "√" complies with NELAP requirements unless otherwise specified in the case narrative.

Analysis Comments: AA82147-A  E. coli
Sample analysis proceeded despite out of hold time; per customer instructions.

ANALYTICAL RESULTS

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<td>E. Coli Holding Time - IDEXX Colilert</td>
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<td>hours</td>
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<td>8/16/13 15:03</td>
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## QC ANALYTICAL RESULTS

**QC Batch Name:** E.COLI_QUANTITRAY-35850

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<td></td>
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Patricia M. Carvajal  
Quality Control & Data Management Supervisor

---

8/22/2013  
Date

---

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Environmental Sciences Department Laboratory
ANALYTICAL REPORT

Client: Edwards Aquifer Authority
Mark Hamilton
1615 N. Saint Mary's St.
San Antonio, TX 78215
Fax #: 210-222-9686

This analytical report is intended exclusively for the individual or entity to which it is addressed. Recipient is not authorized to print or copy this report, except in full without written approval of the laboratory. If you have received this report in error, please notify the San Antonio River Authority.

Sample Location: HSM 270-3
Sample Number: AA82148
Sample Matrix: Non Potable Water
Collection Date/Time: 8/16/13 00:30
Receipt Date/Time: 8/16/13 09:27

CASE NARRATIVE
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Analysis Comments: AA82148-A E. coli
Sample analysis proceeded despite out of hold time; per customer instructions.

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8/22/2013

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