Attached please find results for the analysis of the samples received on the date referenced above.

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Sincerely,
Absolute Resource Associates

Sue Sylvester
Principal, General Manager

Date of Approval: 2/23/2017
Total number of pages: 3
**Project ID:** Strawberry Banke SW Sample  
**Job ID:** 39337  
**Sample ID:** 39337-001  
**Sample ID:** Marcy St. Storm Drain  
**Matrix:** Water  
**Sampled:** 2/21/17 12:57

<table>
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<th>Prep Date</th>
<th>Batch</th>
<th>Analysis Date</th>
<th>Analysis Time</th>
<th>Reference</th>
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<tr>
<td>Total Coliform Bacteria</td>
<td>&gt;2419.6</td>
<td>1.0</td>
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<td>JZL</td>
<td>2/21/17</td>
<td>1700449</td>
<td>2/21/17</td>
<td>15:10</td>
<td>SM9223B</td>
</tr>
<tr>
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**SampleID:** 39337-002  
**Sample ID:** Prescott Park Outfall  
**Matrix:** Water  
**Sampled:** 2/21/17 13:05

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<td>SM9223B</td>
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</table>
### Absolute Resource

**124 Heritage Avenue #16**  
**Portsmouth, NH 03801**  
**603-436-2001**  
**absoluteresourceassociates.com**

---

#### Analysis Request

**Project Name:** Strawberry  
**Project #:** Bank SW Sample  
**Project Location:** NH, MA, ME, VT

---

**Company Name:** Portsmouth WTP  
**Company Address:** Leo Freshet Rd, Malden, MA  
**Report To:** Jesse Pearce  
**Phone #:** 957-2438

---

**Lab Copy Invoice Required**  
**Hard Copy Invoice Required**  
**PO #:**

---

**Matrix**  
**Preservation Method**  
**Sampling**

---

**TAT Requested**  
**Priority (24 hr)***  
**Expedited (48 hr)***  
**Standard** (10 Business Days)  
*Date Needed

---

**Priority (24 hr)***  
**Expedited (48 hr)***  
**Standard** (10 Business Days)  
*Date Needed

---

**Custody Record**  
**OOS-01 Revision 12/22/16**

---

**Relinquished by Sampler:**  
**Date**  
**Time**

---

**Received by:**  
**Date**  
**Time**

---

**Reporting Instructions**  
**PDF (e-mail address)**  
**HARD COPY REQUIRED**  
**EDD**

---

**Received on Ice**  
**Refrigerated**  
**Frozen**

---

**Temperature**  
**°C**

---

**Special Instructions**

---

**See absoluteresourceassociates.com** for sample acceptance policy and current accreditation lists.

---

**Laboratory:**  
**Date**  
**Time**
Attached please find results for the analysis of the samples received on the date referenced above.

Unless otherwise noted in the attached report, the analyses performed met the requirements of Absolute Resource Associates' Quality Assurance Plan. The Standard Operating Procedures are based upon USEPA SW-846, USEPA Methods for Chemical Analysis of Water and Wastewater, Standard Methods for the Examination of Water and Wastewater and other recognized methodologies. The results contained in this report pertain only to the samples as indicated on the chain of custody.

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Absolute Resource Associates

Sue Sylvester
Principal, General Manager
<table>
<thead>
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Sample# 39371-002
Sample ID: Prescott Park Outfall
Matrix: Water
Sampled: 2/23/17 15:03

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<td>E. coli Bacteria</td>
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Sample# 39371-003
Sample ID: Shaw WHSE Bay
Matrix: Water
Sampled: 2/23/17 15:15

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</table>
**Company Address:**
Leo Fresthet Rd. Madison

**Phone #:** 957-2436

**Project Name:** Sew Sampling

**Project #:**

**Project Location:** NH MA ME VT

**Accreditation Required?** NY:

**Protocol:** RCRA SDWA NPDES

**Reporting** QAPP GW-1 S-1

**Limits:** EPA DW Other

**Quote #:**

**Hard Copy Invoice Required** ☐

**NH Reimbursement Pricing** ☐

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<td>2/23/17 1454 UP</td>
<td>24 hr</td>
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<td></td>
<td>02 Prescot Pond 2 Outfall</td>
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<tr>
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<td>03 SHAW WTP i Bay</td>
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<td>2/23/17 15750</td>
<td>24 hr</td>
</tr>
</tbody>
</table>

**SPECIAL INSTRUCTIONS**

See absoluteresourceassociates.com for sample acceptance policy and current accreditation lists.

**REPORTING INSTRUCTIONS**

☐ PDF (e-mail address)

☐ HARD COPY REQUIRED   ☐ EDD

**RECEIVED ON ICE**

☐ YES ☐ NO

**TEMPERATURE**

□ °C

**CUSTODY RECORD**

OSD-01 Revision 12/22/16

**Relinquished by Sampler:**

**Date** 2/23/17 **Time** 10:08

**Received by:**

**Date** 2/23/17 **Time**

**Relinquished by:**

**Date** 2/23/17 **Time**

**Received by:**

**Date** 2/23/17 **Time**

**Relinquished by:**

**Date** 2/23/17 **Time**

**Received by Laboratory:**

**Date** 2/23/17 **Time**
November 22, 2016

Ms. Jesse Pearce  
Portsmouth WTP  
60 Freshet Rd.  
Madbury, New Hampshire 03823

Dear Ms. Pearce:

Enclosed, please find a copy of our report covering results for analyses performed on samples received on February 23, 2017.

Samples were received in acceptable condition and under chain of custody. Analytes in blanks were below levels affecting sample results. Accuracy and precision, as monitored by laboratory duplicate analyses and positive controls, were within acceptance limits.

Please do not hesitate to call me should you have any questions regarding the report.

Sincerely,

EnviroSystems, Incorporated

Lisa Bordonaro  
Microbiology Manager

Enclosure  
Report 28837-17-02
**Analytical Methods:**


## APPENDIX A

### DATA SHEETS

<table>
<thead>
<tr>
<th>Contents</th>
<th>Number of Pages</th>
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<tbody>
<tr>
<td>Bench Sheets</td>
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<tr>
<td>Sample Chlorine Check</td>
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<tr>
<td>Sample Receipt Record and Condition Documentation</td>
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</tr>
<tr>
<td>Chain of Custody Record</td>
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<tr>
<td>Report Review Checklist</td>
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Total Appendix Pages 5
## MICROBIOLOGICAL ASSAY DATA SHEET

### Data Appendix Page 1

**Client:** Portsmouth WTP  
**Date:** 02/23/2017  
**Initials:** MW  
**ESI #:** 26837  
**Col.Dil.H2O:** M - 3032  
**M-FC:** M - 3033  
**Date collected:** 02/23/17  
**Pipette Used:** AMIG, 30041049  
**Positive lot #:** EBC0215/14

### Sample ID | Time Sampled | Time Filtered | mls filtered per 100 mls total vol. | Media | CFU's | Total w/ background | Comments |
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<td>6 6</td>
<td>6 6 5(4) x 100 = 5400 CFU mL</td>
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<td>√</td>
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### M-FC stored in Incubator #303

**Temp:** 44.7  
**Date:** 02/25/17  
**To:** 1517  
**Date:** 02/24/17

**Method 922D**  
**Counted:** 1518  
**02/24/17**  
**Counted By:** MW

---

Data Appendix Page 1
Sample Chlorine Check

Cl Strips 4310

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<tr>
<td>002</td>
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<td></td>
</tr>
<tr>
<td>003</td>
<td>0</td>
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Date & Time 1421 2/13/17
Initial MW
SAMPLE RECEIPT AND CONDITION DOCUMENTATION

STUDY NO: 28837
SDG No: SW Sampling
Project: Client
Delivered via: Date and Time Logged into Lab:
Date and Time Received: 02/23/17 1555 02/23/17 1615
Received By: LB Logged into Lab by: LB (L)
Air bill / Way bill: No Air bill included in folder if received? NA
Cooler on ice/packs: Yes Custody Seals present? NA
Cooler Blank Temp (C) at arrival: 4C Custody Seals intact? NA
Number of COC Pages: 1
COC Serial Number(s):
COC Complete: Yes Does the info on the COC match the samples? Yes
Sampled Date: Yes Were samples received within holding time? Yes
Field ID complete: Yes Were all samples properly labeled? Yes
Sampled Time: Yes Were proper sample containers used? Yes
Analysis request: Yes Were samples received intact? (none broken or leaking) Yes
COC Signed and dated: Yes Were sample volumes sufficient for requested analysis? Yes
Were all samples received? Yes Were VOC vials free of headspace? NA
Client notification/authorization: Not required pH Test strip ID number: NA

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<th>Lab ID</th>
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<th>Bottle Size</th>
<th>Req'd</th>
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<td>W</td>
<td>Fecal Coliform</td>
<td>100mL p</td>
<td>4C</td>
<td></td>
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<tr>
<td>SHAW WHSE Bay</td>
<td>28837-002</td>
<td>W</td>
<td>Fecal Coliform</td>
<td>100mL p</td>
<td>4C</td>
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<tr>
<td>Prescott Park Outfall</td>
<td>28837-003</td>
<td>W</td>
<td>Fecal Coliform</td>
<td>100mL p</td>
<td>4C</td>
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Notes and qualifications:

See COC
# Chain of Custody Record

**Environmental Systems, Incorporated**

One Lafayette Road, P.O. Box 778, Hampton, New Hampshire 03826

**Contact:** Jesse Pearce  
**Project Name:** SW Sampling  
**P.O. #**

**Report To:** Jesse Pearce  
**Address:** 600 Freshet Rd, Madbury, NH  
**Phone:** 603-957-2456

**Invoice To:** Al Pratt  
**Address:**  

---

### Sample Log

<table>
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<th>Sample #</th>
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<th>Date Sampled</th>
<th>Composite (Yes/No)</th>
<th>Time Sampled</th>
<th>Sample Matrix</th>
<th>Container #/Vol Type</th>
<th>Did You Field Preserve</th>
<th>Notes / Analysis Requested (Special Instructions, Cautions, Etc.)</th>
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<td>1</td>
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**Relinquished By:** 

**Date:** 2/23/17  
**Time:** 15:55

**Received By:** 

**Date:** 2/23/17  
**Time:** 15:55

**Comments:**
# Microbiology Report Review Checklist

**STUDY #: 28837**

**CLIENT:** Portsmouth WTP

**PROJECT:** SW Sampling

**DATE IN:** 2/28/17 **DATE DUE:** 3/1/17

## Analyst Data Review

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<td>↓</td>
<td></td>
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<td>Bench Sheets Complete (dates, times, initials, etc...)</td>
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## Technical Report Review

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<td>Invoice Sent</td>
<td>↓</td>
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</table>
Attached please find results for the analysis of the samples received on the date referenced above.

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Absolute Resource Associates

Sue Sylvester
Principal, General Manager

Date of Approval: 3/7/2017

Total number of pages: 5
<table>
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<th>39406-001</th>
<th>39406-002</th>
<th>39406-003</th>
<th>39406-004</th>
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<td>Sample ID</td>
<td>Prescott Park Outfall</td>
<td>Prescott Park Outfall 2</td>
<td>Marcy St. Storm Drain Low</td>
<td>Marcy St. Storm Drain - Bow</td>
<td>Marcy St. MH Sump</td>
<td>Marcy St. MH PI Intersection</td>
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<td>3/2/17 8:10</td>
<td>3/2/17 8:17</td>
<td>3/2/17 8:29</td>
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<td>E. coli Bacteria</td>
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<td>375 (MPN 50)</td>
<td>119 (MPN 10)</td>
<td>216 (MPN 10)</td>
<td>5475 (MPN 10)</td>
<td>605 (MPN 10)</td>
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### SW Sampling Round 3

**Project ID:** SW Sampling Round 3  
**Job ID:** 39406  
**Sample #:** 39406-007  
**Sample ID:** Washington MH Inlet  
**Matrix:** Water  
**Sampled:** 3/2/17  9:30

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**Sample #:** 39406-008  
**Sample ID:** Washington MH Sump  
**Matrix:** Water  
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**Sample #:** 39406-009  
**Sample ID:** Washington CB Sump  
**Matrix:** Water  
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## COMPANY NAME
**Portsmouth WTP**

## COMPANY ADDRESS
160 Freshet Rd., Madbury, NH

## REPORT TO
Jesse Pearce

## PROJECT NAME
Sw Sampling

## PROJECT #: Round 3

## PROJECT LOCATION
Current Accreditation Required? N

## PROTOCOL
RCRA SDWA NPDES

## LIMITS
EPA DW Other

## REPORTING
GW-1 S-1

## LAB COPY Invoice Required

## HARD COPY Invoice Required

## EMAIL

## QUOTE #

## COMPANY ADDRESS
124 Heritage Avenue #16
Portsmouth, NH 03801
603-436-2001
absoluteresourceassociates.com

## CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

### ANALYSIS REQUEST

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| Phosph orus |
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| Pheno ls |
| 0 |
| Bac ter ia |
| P |
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| 2 |
| a |
| Bac ter ia |
| MPN |
| D |
| Cyan ide |
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| 0 |
| Nitra te |
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| Nit rite |
| a |
| Chlor ide |
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| Sulfa te |
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| Brom ide |
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| Flu or ide |
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| Metals |
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| SVOC |
| TCL | P |
| Pesticide |
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| Grain |
| S ize |
| Herbic ide |
| 0 |
| Formalde hyde |
| 0 |
| PFC |
| 71 |
| fj |
| TRAP | Composite |
| C |
| DO |
| 0 |
| G | GO |
| Comp os ite |
| C |

## SPECIAL INSTRUCTIONS
Outfall may have some salt water sampled.

## LAB COPY Invoice Required

## HARD COPY Invoice Required

## RECEIVED ON ICE

**YES**

## TEMPERATURE

**°C**

## TAT REQUESTED
- Priority (24 hr)*
- Expedited (48 hr)*
- Standard (10 Business Days)

*Date Needed

## REPORTING INSTRUCTIONS
- PDF (e-mail address)
- HARD COPY REQUIRED
- EDD

## REPEATED ON ICE

**YES**

## TEMPERATURE

**°C**

## CUSTOM RECORD

### QSD-01 Revision 12/22/16

<table>
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<tr>
<th>Custody Record</th>
<th>Date</th>
<th>Time</th>
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</thead>
<tbody>
<tr>
<td>Relinquished by Sampler:</td>
<td>3/2/17</td>
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**Signature**

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**Signature**

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<th>Time</th>
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<tbody>
<tr>
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<td>02:28</td>
</tr>
</tbody>
</table>

**Signature**
**Company Name:** Portsmouth WTP

**Company Address:**

124 Heritage Avenue #16
Portsmouth, NH 03801
603-436-2001
absoluteresourceassociates.com

**Project Name:** SW Sampling

**Project #:** Rand 3

**Project Location:** NH, MA, ME, VT

**Accreditation Required?** N/Y

**Protocol:** RCRA, SDWA, NPDES

**Reporting:** QAPP, GW-1, S-1

**Limits:** EPA DW, Other

**Quote #:**

**Hard Copy Invoice Required** □

**PO #:**

**(Company Address):** 124 Heritage Avenue #16
Portsmouth, NH 03801
603-436-2001
absoluteresourceassociates.com

**Laboratory Analysis Request**

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**TAT REQUESTED**

Priority (24 hr)* □

Expedited (48 hr)* □

Standard □

(10 Business Days) □

*Date Needed

**SPECIAL INSTRUCTIONS**

Dilutions may be necessary.

**REPORTING INSTRUCTIONS**

□ PDF (e-mail address)

□ HARD COPY REQUIRED □ EDD

**RECEIVED ON ICE** □ YES ☑ NO

**TEMPERATURE**

**CUSTODY RECORD**

OSD-01 Revision 12/22/16

**Relinquished by Sampler:** [Signature]

**Date** 3/2/17 10:28

**Received by:** [Signature]

**Date** 3/2/17 10:48

**Relinquished by:** [Signature]

**Date** 3/2/17 9:30

**Received by:** [Signature]

**Date** 3/2/17 9:39

**Relinquished by:** [Signature]

**Date** 3/2/17 9:51

**Received by:** [Signature]

**Date** 3/2/17 10:51

**Relinquished by:** [Signature]

**Date** 3/2/17 11:20

**Received by:** [Signature]

**Date** 3/2/17 11:40
Project: April SW Sampling

Attached please find results for the analysis of the samples received on the date referenced above.

Unless otherwise noted in the attached report, the analyses performed met the requirements of Absolute Resource Associates' Quality Assurance Plan. The Standard Operating Procedures are based upon USEPA SW-846, USEPA Methods for Chemical Analysis of Water and Wastewater, Standard Methods for the Examination of Water and Wastewater and other recognized methodologies. The results contained in this report pertain only to the samples as indicated on the chain of custody.

Absolute Resource Associates maintains certification with the agencies listed below.

We appreciate the opportunity to provide laboratory services. If you have any questions regarding the enclosed report, please contact the laboratory and we will be glad to assist you.

Sincerely,
Absolute Resource Associates

Sue Sylvester
Principal, General Manager

Date of Approval: 5/2/2017
Total number of pages: 8
### April SW Sampling

**Project ID:** April SW Sampling  
**Job ID:** 39864  
**Sample #:** 39864-001  
**Sample ID:** Marcy MH 5430  
**Matrix:** Water  
**Sampled:** 4/17/17 11:48

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**Sample #:** 39864-002  
**Sample ID:** PP Outfall  
**Matrix:** Water  
**Sampled:** 4/17/17 10:48

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**Sample #:** 39864-003  
**Sample ID:** 9209  
**Matrix:** Water  
**Sampled:** 4/17/17 11:38

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**Sample #:** 39864-004  
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**Matrix:** Water  
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### April SW Sampling

**Project ID:** April SW Sampling  
**Job ID:** 39864  
**Sample ID:** 39864-001  
**Sample ID:** Marcy MH 5430  
**Matrix:** Water  
**Sampled:** 4/17/17 11:24

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<th>Batch</th>
<th>Date</th>
<th>Time</th>
<th>Analysis</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonia as N</td>
<td>&lt; 0.5</td>
<td>0.5</td>
<td>mg/L</td>
<td>1</td>
<td>APA</td>
<td>1701036</td>
<td>4/26/17</td>
<td></td>
<td></td>
<td></td>
<td>SM4500NH3-D</td>
</tr>
<tr>
<td>Enterococci Bacteria</td>
<td>1.0</td>
<td>1.0</td>
<td>MPN</td>
<td>1</td>
<td>AM</td>
<td>170937</td>
<td>4/17/17</td>
<td>15:15</td>
<td></td>
<td></td>
<td>Enterolet</td>
</tr>
<tr>
<td>Fluoride</td>
<td>&lt; 0.5</td>
<td>0.5</td>
<td>mg/L</td>
<td>5</td>
<td>JZL</td>
<td>1701075</td>
<td>4/25/17</td>
<td>14:46</td>
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<td>E300.0A</td>
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<tr>
<td>Salinity</td>
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<td>2.0</td>
<td>ppt</td>
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<td>APA</td>
<td>1700962</td>
<td>4/20/17</td>
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<td></td>
<td></td>
<td>SM2520B</td>
</tr>
<tr>
<td>Total Coliform Bacteria</td>
<td>1986.3</td>
<td>1.0</td>
<td>MPN</td>
<td>1</td>
<td>AM</td>
<td>1700939</td>
<td>4/17/17</td>
<td>15:30</td>
<td></td>
<td></td>
<td>SM9223B</td>
</tr>
<tr>
<td>E. coli Bacteria</td>
<td>27.5</td>
<td>1.0</td>
<td>MPN</td>
<td>1</td>
<td>AM</td>
<td>1700939</td>
<td>4/17/17</td>
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<td>SM9223B</td>
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### Sample# 39864-002

**Sample ID:** PP Outfall  
**Matrix:** Water  
**Sampled:** 4/17/17 10:48

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<th>Batch</th>
<th>Date</th>
<th>Time</th>
<th>Analysis</th>
<th>Reference</th>
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</thead>
<tbody>
<tr>
<td>Ammonia as N</td>
<td>&lt; 0.5</td>
<td>0.5</td>
<td>mg/L</td>
<td>1</td>
<td>APA</td>
<td>1701036</td>
<td>4/26/17</td>
<td></td>
<td></td>
<td></td>
<td>SM4500NH3-D</td>
</tr>
<tr>
<td>Enterococci Bacteria</td>
<td>&lt; 10.0</td>
<td>10.0</td>
<td>MPN</td>
<td>10</td>
<td>AM</td>
<td>170937</td>
<td>4/17/17</td>
<td>15:15</td>
<td></td>
<td></td>
<td>Enterolet</td>
</tr>
<tr>
<td>Fluoride</td>
<td>&lt; 0.5</td>
<td>0.5</td>
<td>mg/L</td>
<td>5</td>
<td>JZL</td>
<td>1701075</td>
<td>4/25/17</td>
<td>15:03</td>
<td></td>
<td></td>
<td>E300.0A</td>
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<tr>
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<td>26</td>
<td>2.0</td>
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### Sample# 39864-003

**Sample ID:** 9209  
**Matrix:** Water  
**Sampled:** 4/17/17 11:38

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<th>Batch</th>
<th>Date</th>
<th>Time</th>
<th>Analysis</th>
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<td>&lt; 0.5</td>
<td>0.5</td>
<td>mg/L</td>
<td>1</td>
<td>APA</td>
<td>1701036</td>
<td>4/26/17</td>
<td></td>
<td></td>
<td></td>
<td>SM4500NH3-D</td>
</tr>
<tr>
<td>Enterococci Bacteria</td>
<td>&lt; 1.0</td>
<td>1.0</td>
<td>MPN</td>
<td>1</td>
<td>AM</td>
<td>170937</td>
<td>4/17/17</td>
<td>15:15</td>
<td></td>
<td></td>
<td>Enterolet</td>
</tr>
<tr>
<td>Fluoride</td>
<td>&lt; 0.5</td>
<td>0.5</td>
<td>mg/L</td>
<td>5</td>
<td>JZL</td>
<td>1701075</td>
<td>4/25/17</td>
<td>15:36</td>
<td></td>
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<td>E300.0A</td>
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<tr>
<td>Salinity</td>
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<td>SM2520B</td>
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<tr>
<td>Total Coliform Bacteria</td>
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<td>4/17/17</td>
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### Sample# 39864-004

**Sample ID:** 9062  
**Matrix:** Water  
**Sampled:** 4/17/17 12:16

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<tbody>
<tr>
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<td>0.5</td>
<td>mg/L</td>
<td>1</td>
<td>APA</td>
<td>1701036</td>
<td>4/26/17</td>
<td></td>
<td></td>
<td></td>
<td>SM4500NH3-D</td>
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<tr>
<td>Enterococci Bacteria</td>
<td>18.1</td>
<td>1.0</td>
<td>MPN</td>
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<td>AM</td>
<td>170937</td>
<td>4/17/17</td>
<td>15:15</td>
<td></td>
<td></td>
<td>Enterolet</td>
</tr>
<tr>
<td>Fluoride</td>
<td>&lt; 0.5</td>
<td>0.5</td>
<td>mg/L</td>
<td>5</td>
<td>JZL</td>
<td>1701075</td>
<td>4/25/17</td>
<td>15:52</td>
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<td>2.0</td>
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<td>4/20/17</td>
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<td>&gt;2419.6</td>
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<td>4/17/17</td>
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<tr>
<td>E. coli Bacteria</td>
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<td>AM</td>
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<td>4/17/17</td>
<td>15:30</td>
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**Chain-of-Custody Record and Analysis Request**

**Analysis Request**

**39864**

<table>
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<td>5430 (mL)</td>
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**Tat Requested**

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<th>Expedited (48 hr)</th>
<th>Standard (10 Business Days)</th>
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<tbody>
<tr>
<td>☑</td>
<td>☑</td>
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</tr>
</tbody>
</table>

**Special Instructions**

Send hard copy of results to:

repliance@cityofportsmouth.com

**Reporting Instructions**

- PDF (e-mail address)
- HARD COPY REQUIRED
- EDD

**Chain of Custody**

**Date Time Relinquished by:** 4/17/17 4:05

**Date Time Received by:** 4/17/17 4:05

**Laboratory:**

**Date Time Received by Laboratory:** 4/17/17 4:05

---

**Company Name:** Portsmouth DPW WTP

**Company Address:** 124 Heritage Avenue #16 Portsmouth, NH 03801 603-436-2001 absoluteresourceassociates.com

---

**Project Name:** Sampling

**Project #:** April

**Project Location:** NH MA ME VT

**Accreditation Required?** N/N

**Protocol:** RCRA SDWA NPDES MCP NHDES DOD

**Reporting:** QAPP GW-1 S-1

**Limits:** EPA DW Other

**Quote #:**

**Hard Copy Invoice Required?** %

**NH Reimbursement Pricing**

See absoluteresourceassociates.com for sample acceptance policy and current accreditation lists.
### Analysis Request

**Project Name:** April SW Sampling  
**Project #:**  
**Project Location:** NH MA ME VT  
**Accreditation Required?** N/Y  
**Protocol:** RCRA SDWA NPDES MCP NHDES DOD  
**Reporting:** QAPP GW-1 S-1  
**Limits:** EPA DW Other  
**Quote #:**  
**NH Reimbursement Pricing**

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<th>Sampling Date</th>
<th>Time</th>
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<td>PP outfall</td>
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<td>4/17/17</td>
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</table>

**TAT Requested**
- Priority (24 hr)*  
- Expedited (48 hr)*  
- Standard (10 Business Days)  
*Date Needed

**Special Instructions**
- Send hard copy of results to reizen@cityofportsmouth.com
- Received on ice at YES/LINO
- Temperature: °C

**Custody Record**

**Company Name:** Absolute Resource Associates  
124 Heritage Avenue #16  
Portsmouth, NH 03801  
603-436-2001  
absolutesourceassociates.com

**Project Name:**  
**Company Address:**
- 124 Heritage Avenue #16  
- Portsmouth, NH 03801

**Sample ID**
- Lab Use Only

**Sample ID**
- 38864-02 PP outfall

**Received by:**
- Date: 4/17/17  
- Time: 14:05

**Relinquished by:**
- Leinen

**Follow-up**
- Reizen@cityofportsmouth.com

---

**Analysis Request**

**Lab Sample ID**
- (Lab Use Only)

**Field ID**
- PP outfall

**Matrix**
- Water

**Preservation Method**
- NaN

**Sampling Date**
- 4/17/17

**Time**
- 10:55

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**Reporting Instructions**

**Hard Copy Required**
- PDF (e-mail address)

**priority (24 hr)*  
- Expedited (48 hr)*  
- Standard (10 Business Days)

**Date Needed**
- 4/17/17

**Received by:**
- Date: 4/17/17

**Relinquished by:**
- Leinen

**Follow-up**
- Reizen@cityofportsmouth.com

---

**Custody Record**

**Received by:**
- Date: 4/17/17  
- Time: 14:05

**Relinquished by:**
- Leinen
**Company Name:** Portsmouth WTP DPW  
**Company Address:** 260 Freeman Rd, Medbury  
**Report To:** Jesse Pearce  
**Phone #:** (603-957-2436  
**Invoice to:** Jesse Pearce  
**Email:** jpearce@cityofportsmouth.com

**Project Name:** April 5, 2020 Sampling  
**Project #:**  
**Project Location:** NH MA ME VT  
**Accreditation Required?** N/Y  
**Protocol:** RCRA SDWA NPDES MCP NHDES DOD  
**Reporting** QAPP GW-1 S-1  
**Limits:** EPA DW Other  
**Quote #:**  
**NH Reimbursement Pricing**

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<td>35864-03</td>
<td>9209</td>
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**Matrix**
- Water
- Solid
- Other

**Preservation Method**
- HCl
- NaNO₂
- NaN₃

**Sampling**
- Date: 4/17/19
- Time: 11:40
- Sampler:  

**TAT REQUESTED**
- Priority (24 hr)*
- Expedited (48 hr)*
- Standard (10 Business Days)
  *Date Needed:

**REPORTING INSTRUCTIONS**
- PDF (e-mail address)
- HARD COPY REQUIRED
- EDD

**CUSTODY RECORD**
- 050-01 Revision 12/22/16

**Received by:**
- Date: 4/17/17
- Time: 14:05

**Received by:**
- Date: 4/17/17
- Time: 14:05

**Received by:**
- Date: 4/17/17
- Time: 11:40

**Received by:**
- Date: 4/17/17
- Time: 11:38

**TEMPERATURE **
- °C

**RECEIVED ON ICE**
- YES
- NO

**REPORTED ON ICE**
- YES
- NO

**Date**
- 4/17/17

**Time**
- 14:05
### Report To:
Jesse Pearce
Phone #: 603-457-2436

### Invoice to:
Jesse Pearce, City of Portsmouth
Email: jpeac@ci.cityofportsmouth.com

### Company Name:
Portsmouth OPW WTP

### Company Address:
600 Freshet Rd., Madbury, NH

### Project Name:
April SW Sampling

### Project Location:
NH MA ME VT

### Accreditation Required? N/Y:
N

### Protocol:
RCRA SDWA NPDES MCP NHDES DOD

### Reporting:
QAPP GW-1 S-1

### Limits:
EPA DW Other

### Quote #:

### Hard Copy Invoice Required

### NH Reimbursement Pricing

### Project Name:

### Project Location:
MA ME VT

### Accreditation Required?

### Project #:

### Quote #:

### U NH Reimbursement Pricing

### Lab Sample ID (Lab Use Only)

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<td>HCl</td>
<td>1/17/17 12:20 UP</td>
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### TAT REQUESTED

- Priority (24 hr)
- Expedited (48 hr)

### Special Instructions

- Send hard copy of results to jpeac@ci.cityofportsmouth.com.

### Reporting Instructions

- PDF (e-mail address): jpeac@ci.cityofportsmouth.com
- Hard Copy Required
- EDD

### Custody Record

- GSD-01 Revision 12/22/16

### Relinquished by Sampler:
Jesse

### Received by:
03/20

### Received by:

### Received by:

### Received by:

### RECEIVED ON ICE:

### TEMPERATURE:

---

**Page 8 of 8**
Project: IDDE-Marcy St.

Attached please find results for the analysis of the samples received on the date referenced above.

Unless otherwise noted in the attached report, the analyses performed met the requirements of Absolute Resource Associates' Quality Assurance Plan. The Standard Operating Procedures are based upon USEPA SW-846, USEPA Methods for Chemical Analysis of Water and Wastewater, Standard Methods for the Examination of Water and Wastewater and other recognized methodologies. The results contained in this report pertain only to the samples as indicated on the chain of custody.

Absolute Resource Associates maintains certification with the agencies listed below.

We appreciate the opportunity to provide laboratory services. If you have any questions regarding the enclosed report, please contact the laboratory and we will be glad to assist you.

Sincerely,
Absolute Resource Associates

Date of Approval: 5/8/2017

Total number of pages: 6

Absolute Resource Associates Certifications

New Hampshire 1732
Maine NH903
Massachusetts M-NH902
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<td>OF 12564</td>
<td>Water</td>
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**Job ID:** 40078  
**Sample #:** 40078-001  
**Sample ID:** OF 12564  
**Matrix:** Water  
**Sampled:** 5/3/17 12:10

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<td>mg/L</td>
<td>10</td>
<td>AM 5/4/17</td>
<td>9627</td>
<td>5/4/17</td>
<td>23:00</td>
<td>E200.8</td>
<td></td>
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</table>

**Sample #:** 40078-002  
**Sample ID:** 9254  
**Matrix:** Water  
**Sampled:** 5/3/17 12:45

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<th>Instr Dil’n Factor</th>
<th>Analyst Date</th>
<th>Prep Date</th>
<th>Batch</th>
<th>Analysis Date</th>
<th>Time</th>
<th>Reference</th>
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<tr>
<td>Potassium</td>
<td>49</td>
<td>0.5</td>
<td>mg/L</td>
<td>1</td>
<td>AM 5/4/17</td>
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<td>E200.8</td>
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**Sample #:** 40078-003  
**Sample ID:** 9210  
**Matrix:** Water  
**Sampled:** 5/3/17 13:00

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<tr>
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<td>1</td>
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**Sample #:** 40078-004  
**Sample ID:** 9062  
**Matrix:** Water  
**Sampled:** 5/3/17 13:30

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<th>Time</th>
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<tr>
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<td>0.5</td>
<td>mg/L</td>
<td>1</td>
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<td>5/4/17</td>
<td>16:29</td>
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### Analysis Results

**Project ID:** IDDE-Marcy St.
**Job ID:** 40078

**Sample ID:** 40078-001
**Sample ID:** OF 12564
**Matrix:** Water

**Sampled:** 5/3/17 12:10

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<th>Prep Time</th>
<th>Batch Date</th>
<th>Batch Time</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonia as N</td>
<td>0.3 J</td>
<td>0.5</td>
<td>0.11</td>
<td>mg/L</td>
<td>1 APA</td>
<td></td>
<td></td>
<td></td>
<td>5/4/17</td>
<td>1701149</td>
<td>SM4500NH3-D</td>
</tr>
<tr>
<td>Enterococci Bacteria</td>
<td>116.2</td>
<td>1.0</td>
<td></td>
<td>MPN</td>
<td>1 AM</td>
<td></td>
<td></td>
<td></td>
<td>5/3/17</td>
<td>1701162</td>
<td>Enterolert</td>
</tr>
<tr>
<td>Fluoride</td>
<td>0.4 J</td>
<td>0.5</td>
<td>0.015</td>
<td>mg/L</td>
<td>5 JZL</td>
<td></td>
<td></td>
<td></td>
<td>5/4/17</td>
<td>1701187</td>
<td>E300.0A</td>
</tr>
</tbody>
</table>

Note: Dilution due to matrix interference.

**Parameter** | **Result** | **Reporting Limit** | **Units** | **Instr Dil'n Factor** | **Analyst** | **Prep Date** | **Prep Time** | **Batch Date** | **Batch Time** | **Reference** |
**Total Coliform Bacteria** | >2419.6 | 1.0 | MPN | 1 AM | 1701163 | 5/3/17 | 15:30 | SM9223B |
**E. coli Bacteria** | 113.2 | 1.0 | MPN | 1 AM | 1701163 | 5/3/17 | 15:30 | SM9223B |

**Sample ID:** 40078-002
**Sample ID:** 9254
**Matrix:** Water

**Sampled:** 5/3/17 12:45

<table>
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<th>Units</th>
<th>Instr Dil'n Factor</th>
<th>Analyst</th>
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<th>Prep Time</th>
<th>Batch Date</th>
<th>Batch Time</th>
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</thead>
<tbody>
<tr>
<td>Ammonia as N</td>
<td>0.4 J</td>
<td>0.5</td>
<td>0.11</td>
<td>mg/L</td>
<td>1 APA</td>
<td></td>
<td></td>
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<td>5/4/17</td>
<td>1701149</td>
<td>SM4500NH3-D</td>
</tr>
<tr>
<td>Enterococci Bacteria</td>
<td>20.3</td>
<td>1.0</td>
<td></td>
<td>MPN</td>
<td>1 AM</td>
<td></td>
<td></td>
<td></td>
<td>5/3/17</td>
<td>1701162</td>
<td>Enterolert</td>
</tr>
<tr>
<td>Fluoride</td>
<td>0.3 J</td>
<td>0.5</td>
<td>0.015</td>
<td>mg/L</td>
<td>5 JZL</td>
<td></td>
<td></td>
<td></td>
<td>5/4/17</td>
<td>1701187</td>
<td>E300.0A</td>
</tr>
</tbody>
</table>

Note: Dilution due to matrix interference.

**Parameter** | **Result** | **Reporting Limit** | **Units** | **Instr Dil'n Factor** | **Analyst** | **Prep Date** | **Prep Time** | **Batch Date** | **Batch Time** | **Reference** |
**Total Coliform Bacteria** | 1553.1 | 1.0 | MPN | 1 AM | 1701163 | 5/3/17 | 15:30 | SM9223B |
**E. coli Bacteria** | 32.3 | 1.0 | MPN | 1 AM | 1701163 | 5/3/17 | 15:30 | SM9223B |

**Sample ID:** 40078-003
**Sample ID:** 9210
**Matrix:** Water

**Sampled:** 5/3/17 13:00

<table>
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<th>Units</th>
<th>Instr Dil'n Factor</th>
<th>Analyst</th>
<th>Prep Date</th>
<th>Prep Time</th>
<th>Batch Date</th>
<th>Batch Time</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonia as N</td>
<td>0.3 J</td>
<td>0.5</td>
<td>0.11</td>
<td>mg/L</td>
<td>1 APA</td>
<td></td>
<td></td>
<td></td>
<td>5/4/17</td>
<td>1701149</td>
<td>SM4500NH3-D</td>
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<tr>
<td>Enterococci Bacteria</td>
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<td>5/3/17</td>
<td>1701162</td>
<td>Enterolert</td>
</tr>
<tr>
<td>Fluoride</td>
<td>0.3 J</td>
<td>0.5</td>
<td>0.015</td>
<td>mg/L</td>
<td>5 JZL</td>
<td></td>
<td></td>
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<td>1701187</td>
<td>E300.0A</td>
</tr>
</tbody>
</table>

Note: Dilution due to matrix interference.

**Parameter** | **Result** | **Reporting Limit** | **Units** | **Instr Dil'n Factor** | **Analyst** | **Prep Date** | **Prep Time** | **Batch Date** | **Batch Time** | **Reference** |
**Total Coliform Bacteria** | >2419.6 | 1.0 | MPN | 1 AM | 1701163 | 5/3/17 | 15:30 | SM9223B |
**E. coli Bacteria** | 38.8 | 1.0 | MPN | 1 AM | 1701163 | 5/3/17 | 15:30 | SM9223B |

\*J=The analytical result was below the instrument calibration range, but above the method detection limit.\*
Project ID: IDDE-Marcy St.
Job ID: 40078
Sample #: 40078-004
Sample ID: 9062
Matrix: Water
Sampled: 5/3/17 13:30

<table>
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<th>Units</th>
<th>Instr Dil’n Factor</th>
<th>Analyst</th>
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<th>Prep Time</th>
<th>Batch Date</th>
<th>Analysis Date</th>
<th>Time</th>
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</thead>
<tbody>
<tr>
<td>Ammonia as N</td>
<td>0.3 J</td>
<td>0.5</td>
<td>0.11</td>
<td>mg/L</td>
<td>1</td>
<td>APA</td>
<td></td>
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<td>1701149</td>
<td>5/4/17</td>
<td></td>
<td>SM4500NH3-D</td>
</tr>
<tr>
<td>Enterococci Bacteria</td>
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<td>1.0</td>
<td>MPN</td>
<td>1</td>
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<td>Enterolert</td>
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<td>Fluoride</td>
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<td>0.5</td>
<td>0.015</td>
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</table>

M = The recovery for the matrix spike was 84%. The acceptance criteria is 90-110%. All other associated QC samples were acceptable.
Note: Dilution due to matrix interference.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Result</th>
<th>Reporting Limit</th>
<th>Units</th>
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<tbody>
<tr>
<td>Total Coliform Bacteria</td>
<td>&gt;2419.6</td>
<td>1.0</td>
<td>MPN</td>
<td>1</td>
<td>AM</td>
<td></td>
<td></td>
<td>1701163</td>
<td>5/3/17</td>
<td>15:30</td>
<td>SM9223B</td>
</tr>
<tr>
<td>E. coli Bacteria</td>
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<td>1.0</td>
<td>MPN</td>
<td>1</td>
<td>AM</td>
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<td></td>
<td>1701163</td>
<td>5/3/17</td>
<td>15:30</td>
<td>SM9223B</td>
</tr>
</tbody>
</table>

J=The analytical result was below the instrument calibration range, but above the method detection limit.
Absolute Resource
124 Heritage Avenue #16
Portsmouth, NH 03801
603-436-2001
absoluteresourceassociates.com

CHAIN-OF-CUSTODY RECORD
AND ANALYSIS REQUEST

40078

ANALYSIS REQUEST

Company Name: City of Portsmouth

Project Name: IDDE-Marcy St

Project Location: NH MA ME VT

Accreditation Required? N/Y:

Protocol: RCRA SDWA NPDES

Reporting: QAPP GW-1 S-1

Limits: EPA DW Other

quote #

Company Address:

Invoice to: City of Portsmouth

Phone #: 603-766-1355

Email: kpezzullo@cityofportsmouth.com

Hard Copy Invoice Required

Invoice to: City of Portsmouth

Limits: EPA DW Other

Email: kpezzullo@cityofportsmouth.com

Hard Copy Invoice Required

Lab Sample ID (Lab Use Only)

Field ID:

Matrix:

Preservation Method:

Sampling:

TAT REQUESTED

Priority (24 hr)*

Expedited (48 hr)*

Standard

(10 Business Days)

Date Needed

See absoluteresourceassociates.com for sample acceptance policy and current accreditation lists.

SPECIAL INSTRUCTIONS

REPORTING INSTRUCTIONS

PDF (e-mail address) lauradroebenvironmental.com

RECEIVED ON ICE YES UNO

TEMPERATURE 7°C

CUSTODY RECORD

OSD-01 Revision 12/22/16

Relinquished by Sampler:

Date | Time
--- | ---
5/17/17 | 2:08pm

Received by:

Date | Time
--- | ---

Relinquished by:

Date | Time
--- | ---

Received by:

Date | Time
--- | ---

Relinquished by:

Date | Time
--- | ---

Received by Laboratory:

Date | Time
--- | ---

Page 6 of 6