Wednesday, October 04, 2017

Attn: Mr. Chris Doyle
Solitude Lake Management
310 East Washington Ave
Washington NJ 07882

Project ID: CROTON RIVER
Sample ID#s: BZ12716 - BZ12727

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.
If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301
Analysis Report
October 04, 2017

FOR: Attn: Mr. Chris Doyle
Solitude Lake Management
310 East Washington Ave
Washington NJ 07882

Sample Information
Matrix: DRINKING WATER
Location Code: SOLITUDE
Rush Request: 72 Hour
P.O.:

Custody Information
Collected by:
Received by: SW
Analyzed by: see "By" below

Laboratory Data
SDG ID: GBZ12716
Phoenix ID: BZ12716

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<th>Date/Time</th>
<th>By</th>
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Semivolatile Organic

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<th>Units</th>
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<td>% benzo(a)pyrene-d12</td>
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<td>% Triphenylphosphate</td>
<td>79</td>
<td>1</td>
<td>%</td>
<td>NA</td>
<td>NA</td>
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<td>RL/PQL=Reporting/Practical Quantitation Level</td>
<td>DIL=Dilution (analysis required diluting to evaluate)</td>
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<td>MCL = Maximum Contaminant Level</td>
<td>MCLG = Maximum Contaminant Level Goal</td>
<td>QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not &quot;detected&quot; compounds.</td>
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**Comments:**

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Phyllis Shiller, Laboratory Director

October 04, 2017

Reviewed and Released by: Bobbi Aloisa, Vice President
## Analysis Report

October 04, 2017

FOR: Attn: Mr. Chris Doyle  
Solitude Lake Management  
310 East Washington Ave  
Washington NJ 07882

### Sample Information

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<tr>
<td>Rush Request</td>
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<td>P.O.#</td>
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### Custody Information

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### Laboratory Data

SDG ID: GBZ12716  
Phoenix ID: BZ12717

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<th>By</th>
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<tr>
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<td>NA</td>
<td>NA</td>
<td></td>
<td>10/03/17</td>
<td>MH</td>
<td>70 - 130 %</td>
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</table>

### Semivolatile Organic

- Fluridone: 0.48 ug/L  
  Date: 10/03/17  
  Reference: E525.3

**QA/QC Surrogates**

- 1,3-Dimethyl-2-nitrobenzene: 74 %  
  Date: 10/03/17  
  Reference: 70 - 130 %

- benzo(a)pyrene-d12: 79 %  
  Date: 10/03/17  
  Reference: 70 - 130 %

- Triphenylphosphate: 79 %  
  Date: 10/03/17  
  Reference: 70 - 130 %
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<th>MCL</th>
<th>MCLG</th>
<th>Date/Time</th>
<th>By Reference</th>
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Phyllis Shiller, Laboratory Director  
October 04, 2017  
Reviewed and Released by: Bobbi Aloisa, Vice President
Analysis Report  
October 04, 2017

FOR: Attn: Mr. Chris Doyle  
Solitude Lake Management  
310 East Washington Ave  
Washington NJ 07882

Sample Information  
Matrix: DRINKING WATER  
Location Code: SOLITUDE  
Rush Request: 72 Hour  
P.O.#:

Custody Information  
Collected by:  
Received by: SW  
Analyzed by: see "By" below  

Date  
10/02/17  
10/02/17  

Time  
12:15  
15:07

Laboratory Data  
SDG ID: GBZ12716  
Phoenix ID: BZ12718

Project ID: CROTON RIVER  
Client ID: DW 1-A

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<tr>
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<tr>
<td>% 1,3-Dimethyl-2-nitrobenzene</td>
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<td>1</td>
<td>%</td>
<td>NA</td>
<td>NA</td>
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<td>10/03/17</td>
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<td>70 - 130 %</td>
</tr>
<tr>
<td>% benzo(a)pyrene-d12</td>
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<td>%</td>
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<tr>
<td>% Triphenylphosphate</td>
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<td>NA</td>
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<td>10/03/17</td>
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<td>70 - 130 %</td>
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Phyllis Shiller, Laboratory Director
October 04, 2017
Reviewed and Released by: Bobbi Aloisa, Vice President
Analysis Report
October 04, 2017

FOR: Attn: Mr. Chris Doyle
Solitude Lake Management
310 East Washington Ave
Washington NJ 07882

Sample Information
Matrix: DRINKING WATER
Location Code: SOLITUDE
Rush Request: 72 Hour
P.O.:

Custody Information
Collected by:
Received by: SW
Analyzed by: see "By" below

Laboratory Data
SDG ID: GBZ12716
Phoenix ID: BZ12719

Parameter Result
Parameter | Result | Date | Time | RL/ | DIL | Units | AL | MCL | MCLG | Date/Time | By | Reference
--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | ---
Extraction for 525.3 | Completed | 10/02/17 | 12:15 | | | | | | | | |

Semivolatile Organic
Fluridone 1.4 0.30 1 ug/L | 10/03/17 | MH | E525.3 |

QA/QC Surrogates
| Parameter | Result | Date | Time | RL/ | DIL | Units | AL | MCL | MCLG | Date/Time | By | Reference |
--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | ---|
% 1,3-Dimethyl-2-nitrobenzene | 82 | 1 | % | NA | NA | NA | 10/03/17 | MH | 70 - 130 % |
% benzo(a)pyrene-d12 | 91 | 1 | % | NA | NA | NA | 10/03/17 | MH | 70 - 130 % |
% Triphenylphosphate | 91 | 1 | % | NA | NA | NA | 10/03/17 | MH | 70 - 130 % |
Maximum Contaminant Level (MCL) (Lower of): 40 CFR Part 141; Public Health Law, Section 225 Part 5. The highest level of a contaminant that is allowed in drinking water. MCLs are enforceable standards.


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Analysis Report
October 04, 2017

FOR: Attn: Mr. Chris Doyle
Solitude Lake Management
310 East Washington Ave
Washington NJ 07882

Sample Information
Matrix: DRINKING WATER
Location Code: SOLITUDE
Rush Request: 72 Hour
P.O.:

Custody Information
Collected by:
Received by: SW
Analyzed by: see "By" below

Laboratory Data
SDG ID: GBZ12716
Phoenix ID: BZ12720

Parameter Result

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Semivolatile Organic

Fluridone
0.46 0.29 1 ug/L 10/03/17 MH E525.3

QA/QC Surrogates

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<tr>
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<td>%</td>
<td>NA</td>
<td>NA</td>
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<tr>
<td>% Triphenylphosphate</td>
<td>1</td>
<td>%</td>
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Phyllis Shiller, Laboratory Director  
October 04, 2017  
Reviewed and Released by: Bobbi Aloisa, Vice President
**Analysis Report**

October 04, 2017

**Sample Information**
- **Matrix:** DRINKING WATER
- **Location Code:** SOLITUDE
- **Rush Request:** 72 Hour
- **P.O. #:**

**Custody Information**
- **Collected by:**
- **Received by:** SW
- **Analyzed by:** see "By" below

**Laboratory Data**

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<td>E525.3</td>
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<td>70 - 130 %</td>
</tr>
<tr>
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<td>70 - 130 %</td>
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<tr>
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<td>10/03/17</td>
<td>MH</td>
<td>70 - 130 %</td>
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**FOR:** Attn: Mr. Chris Doyle
Solitude Lake Management
310 East Washington Ave
Washington NJ 07882

**SDG ID:** GBZ12716
Phoenix ID: BZ12721
Maximum Contaminant Level (MCL) (Lower of): 40 CFR Part 141; Public Health Law, Section 225 Part 5. The highest level of a contaminant that is allowed in drinking water. MCLs are enforceable standards.


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Phyllis Shiller, Laboratory Director
October 04, 2017
Reviewed and Released by: Bobbi Aloisa, Vice President
Analysis Report
October 04, 2017

FOR: Attn: Mr. Chris Doyle
Solitude Lake Management
310 East Washington Ave
Washington NJ 07882

Sample Information
Matrix: DRINKING WATER
Location Code: SOLITUDE
Rush Request: 72 Hour
P.O.#:

Custody Information
Collected by:  
Received by: SW  
Analyzed by: see "By" below

Laboratory Data

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**Phyllis Shiller, Laboratory Director**

**October 04, 2017**

Reviewed and Released by: Bobbi Aloisa, Vice President
## Analysis Report

**October 04, 2017**

**FOR:** Attn: Mr. Chris Doyle  
Solitude Lake Management  
310 East Washington Ave  
Washington NJ 07882

### Sample Information

- **Matrix:** DRINKING WATER  
- **Location Code:** SOLITUDE  
- **Rush Request:** 72 Hour  
- **P.O. #:**

### Custody Information

- **Collected by:**  
- **Received by:** SW  
- **Analyzed by:** see "By" below

### Laboratory Data

- **SDG ID:** GBZ12716  
- **Phoenix ID:** BZ12723

### Project ID:
CROTON RIVER

### Client ID:
DW 4-B

### Parameter Result Table

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<td>E525.3</td>
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### Semivolatile Organic

#### Fluridone

- **Result:** 0.42  
- **Units:** 0.29 ug/L  
- **Date/Time:** 10/03/17  
- **By:** MH  
- **Reference:** E525.3  

#### QA/QC Surrogates

- **% 1,3-Dimethyl-2-nitrobenzene:** 80  
- **% benzo(a)pyrene-d12:** 85  
- **% Triphenylphosphate:** 86

- **Date/Time:** 10/03/17  
- **By:** MH  
- **Reference:** 70 - 130 %
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Phyllis Shiller, Laboratory Director  
October 04, 2017  
Reviewed and Released by: Bobbi Aloisa, Vice President
Analysis Report
October 04, 2017

FOR: Attn: Mr. Chris Doyle
Solitude Lake Management
310 East Washington Ave
Washington NJ 07882

Sample Information
Matrix: DRINKING WATER
Location Code: SOLITUDE
Rush Request: 72 Hour
P.O.:

Custody Information
Collected by: 
Received by: SW
Analyzed by: see "By" below

Date Time
10/02/17 11:05
10/02/17 15:07

Laboratory Data
SDG ID: GBZ12716
Phoenix ID: BZ12724

Project ID: CROTON RIVER
Client ID: UNH 1

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Semivolatile Organic

Fluridone

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<tr>
<td>benzo(a)pyrene-d12</td>
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<td>%</td>
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<td>NA</td>
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<td>10/03/17</td>
<td>MH</td>
<td>70 - 130 %</td>
</tr>
<tr>
<td>Triphenylphosphate</td>
<td>84</td>
<td>1</td>
<td>%</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td></td>
<td>10/03/17</td>
<td>MH</td>
<td>70 - 130 %</td>
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Phyllis Shiller, Laboratory Director  
October 04, 2017  
Reviewed and Released by: Bobbi Aloisa, Vice President
## Analysis Report
October 04, 2017

### Sample Information
- **Matrix:** DRINKING WATER
- **Location Code:** SOLITUDE
- **Rush Request:** 72 Hour
- **P.O. #:**

### Custody Information
- **Collected by:**
- **Received by:** SW
- **Analyzed by:** see "By" below

### Laboratory Data
- **SDG ID:** GBZ12716
- **Phoenix ID:** BZ12725

### Parameter Result

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Client ID: MB 1

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Phyllis Shiller, Laboratory Director
October 04, 2017
Reviewed and Released by: Bobbi Aloisa, Vice President
Analysis Report
October 04, 2017

FOR: Attn: Mr. Chris Doyle
Solitude Lake Management
310 East Washington Ave
Washington NJ 07882

Sample Information
Matrix: DRINKING WATER
Location Code: SOLITUDE
Rush Request: 72 Hour
P.O.#:

Custody Information
Collected by:
Received by: SW
Analyzed by: see "By" below

Laboratory Data
SDG ID: GBZ12716
Phoenix ID: BZ12726

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October 04, 2017
Reviewed and Released by: Bobbi Aloisa, Vice President
Analysis Report
October 04, 2017

FOR: Attn: Mr. Chris Doyle
Solitude Lake Management
310 East Washington Ave
Washington NJ 07882

Sample Information
- Matrix: DRINKING WATER
- Location Code: SOLITUDE
- Rush Request: 72 Hour
- P.O.#:

Custody Information
- Collected by:
- Received by: SW
- Analyzed by: see "By" below

Laboratory Data
- SDG ID: GBZ12716
- Phoenix ID: BZ12727

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<th>Result</th>
<th>RL/ PQL</th>
<th>DIL</th>
<th>Units</th>
<th>AL</th>
<th>MCL</th>
<th>MCLG</th>
<th>Date/Time</th>
<th>By</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extraction for 525.3</td>
<td>Completed</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>10/02/17</td>
<td>H/H</td>
<td>E525.3</td>
</tr>
<tr>
<td><strong>Semivolatile Organic</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fluridone</td>
<td>0.41</td>
<td>0.30</td>
<td>1</td>
<td>ug/L</td>
<td></td>
<td></td>
<td></td>
<td>10/04/17</td>
<td>MH</td>
<td>E525.3</td>
</tr>
<tr>
<td>% 1,3-Dimethyl-2-nitrobenzene</td>
<td>83</td>
<td>1</td>
<td>%</td>
<td>NA</td>
<td>NA</td>
<td></td>
<td></td>
<td>10/04/17</td>
<td>MH</td>
<td>70 - 130 %</td>
</tr>
<tr>
<td>% benzo(a)pyrene-d12</td>
<td>88</td>
<td>1</td>
<td>%</td>
<td>NA</td>
<td>NA</td>
<td></td>
<td></td>
<td>10/04/17</td>
<td>MH</td>
<td>70 - 130 %</td>
</tr>
<tr>
<td>% Triphenylphosphate</td>
<td>90</td>
<td>1</td>
<td>%</td>
<td>NA</td>
<td>NA</td>
<td></td>
<td></td>
<td>10/04/17</td>
<td>MH</td>
<td>70 - 130 %</td>
</tr>
<tr>
<td>Parameter</td>
<td>Result</td>
<td>PQL</td>
<td>DIL</td>
<td>Units</td>
<td>AL</td>
<td>MCL</td>
<td>MCLG Date/Time</td>
<td>By</td>
<td>Reference</td>
<td></td>
</tr>
<tr>
<td>---------------</td>
<td>--------</td>
<td>-----</td>
<td>-----</td>
<td>-------</td>
<td>-----</td>
<td>-----</td>
<td>----------------</td>
<td>----</td>
<td>-----------</td>
<td></td>
</tr>
</tbody>
</table>

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level  DIL=Dilution (analysis required diluting to evaluate)  ND=Not Detected
BRL=Below Reporting Level (less than the reporting level, the lowest amount the laboratory can detect and report.)
AL = Action Level  MCL = Maximum Contaminant Level  MCLG = Maximum Contaminant Level Goal
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

**Comments:**

Maximum Contaminant Level (MCL) (Lower of): 40 CFR Part 141; Public Health Law, Section 225 Part 5. The highest level of a contaminant that is allowed in drinking water. MCLs are enforceable standards.


Secondary DW Maximum Contaminant Level Goal (MCLG): (Lower of): 40 CFR Part 141; 40 CFR Part 143. The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are non-enforceable public health goals.

If there are any questions regarding this data, please call Phoenix Client Services.

This report must not be reproduced except in full as defined by the attached chain of custody.

---

Phyllis Shiller, Laboratory Director
October 04, 2017
Reviewed and Released by: Bobbi Aloisa, Vice President
## QA/QC Data

### QA/QC Report

October 04, 2017

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Blank</th>
<th>LCS (%)</th>
<th>LCSD (%)</th>
<th>MS (%)</th>
<th>MSD (%)</th>
<th>MS RPD (%)</th>
<th>% Rec Limits</th>
<th>% RPD Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>QA/QC Batch 403805 (ug/L), QC Sample No: BZ12423 (BZ12716, BZ12717, BZ12718, BZ12719, BZ12720, BZ12721, BZ12722, BZ12723, BZ12724, BZ12725, BZ12726, BZ12727)</td>
<td>ND 0.30</td>
<td>102</td>
<td>84</td>
<td>107</td>
<td>24.1</td>
<td>70 - 130</td>
<td>20</td>
<td></td>
</tr>
</tbody>
</table>

**Semivolatile Organic Compounds - Drinking Water**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Blank</th>
<th>LCS (%)</th>
<th>LCSD (%)</th>
<th>MS (%)</th>
<th>MSD (%)</th>
<th>MS RPD (%)</th>
<th>% Rec Limits</th>
<th>% RPD Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fluridone</td>
<td>ND 0.30</td>
<td>102</td>
<td>84</td>
<td>107</td>
<td>24.1</td>
<td>70 - 130</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>% 1,3-Dimethyl-2-nitrobenzene</td>
<td>87 %</td>
<td>82</td>
<td>72</td>
<td>79</td>
<td>9.3</td>
<td>70 - 130</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>% benzo(a)pyrene-d12</td>
<td>86 %</td>
<td>89</td>
<td>81</td>
<td>91</td>
<td>11.6</td>
<td>70 - 130</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>% Triphenylphosphate</td>
<td>84 %</td>
<td>90</td>
<td>78</td>
<td>92</td>
<td>16.5</td>
<td>70 - 130</td>
<td>20</td>
<td></td>
</tr>
</tbody>
</table>

**Comment:**

Tap water, collected and dechlorinated in sample containers, was used as the MS and MSD.

*r = This parameter is outside laboratory RPD specified recovery limits.*

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

### RPD - Relative Percent Difference

- LCS - Laboratory Control Sample
- LCSD - Laboratory Control Sample Duplicate
- MS - Matrix Spike
- MS Dup - Matrix Spike Duplicate
- NC - No Criteria
- Intf - Interference

---

**Phyllis Shiller, Laboratory Director**

October 04, 2017
Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.
The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report: None.
NY Temperature Narration
October 04, 2017

The samples in this delivery group were received at 2.7°C.
(Note acceptance criteria is above freezing up to 6°C)
## NY/NJ CHAIN OF CUSTODY RECORD

**PHOENIX Environmental Laboratories, Inc.**

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040

Email: info@phoenixlabs.com  Fax (860) 645-0823

Client Services (860) 645-8726

---

### Customer Information

**Customer:** SLM

**Address:** 310 East Washington Ave Suite C

Washington NJ 07602

---

### Project Information

**Project:** Croton River

**Report to:** Chris Doyle

**Invoice to:** Kristen M

---

### Analysis Request

**Matrix Code:**

- DW = Drinking Water
- GW = Ground Water
- SW = Surface Water
- WW = Waste Water
- RW = Raw Water
- SE = Sediment
- SL = Sludge
- S = Soil
- SD = Solid
- W = Wipe
- OIL = Oil
- B = Bulk
- L = Liquid

**PHOENIX USE ONLY**

<table>
<thead>
<tr>
<th>SAMPLE #</th>
<th>Matrix</th>
<th>Date Sampled</th>
<th>Time Sampled</th>
</tr>
</thead>
<tbody>
<tr>
<td>DW1-A</td>
<td></td>
<td>12/17/19</td>
<td>0:10:09</td>
</tr>
<tr>
<td>DW1-B</td>
<td></td>
<td>12/17/19</td>
<td>0:10:09</td>
</tr>
<tr>
<td>DW2-A</td>
<td></td>
<td>12/17/19</td>
<td>0:10:09</td>
</tr>
<tr>
<td>DW2-B</td>
<td></td>
<td>12/17/19</td>
<td>0:10:09</td>
</tr>
<tr>
<td>UNH1</td>
<td></td>
<td>11/17/19</td>
<td>0:10:09</td>
</tr>
<tr>
<td>MB1</td>
<td></td>
<td>11/17/19</td>
<td>0:10:09</td>
</tr>
<tr>
<td>RFH1</td>
<td></td>
<td>11/17/19</td>
<td>0:10:09</td>
</tr>
</tbody>
</table>

---

### Relinquished To

**Accepted by:**

**Date:** 12/17/19

**Time:** 1:18

---

### Comments, Special Requirements or Regulations:

---

### Data Format

- Phoenix Std Report
- Excel
- PDF
- GIS/KEY
- EDULS
- NJ Hazmat EDD
- NY EZ EDD (ASP)

### Data Package

- NJ Reduced Deliv.
- NY Enhanced (ASP B)

---

**What State were samples collected?**
### NY/NJ CHAIN OF CUSTODY RECORD

**Client Sample - Information - Identification**

<table>
<thead>
<tr>
<th>Sample #</th>
<th>Matrix Code</th>
<th>Date Sampled</th>
<th>Time Sampled</th>
</tr>
</thead>
<tbody>
<tr>
<td>H=1</td>
<td>DW</td>
<td>10/01/11</td>
<td>11:50A</td>
</tr>
</tbody>
</table>

**Sampler's Information**

- **Signature**
- **Matrix Code**
  - DW = Drinking Water
  - GW = Ground Water
  - SW = Surface Water
  - WW = Waste Water
  - RW = Raw Water
  - SE = Sediment
  - SL = Sludge
  - S = Soil
  - SD = Solid
  - W = Wipe
  - OIL = Oil
  - B = Bulk
  - L = Liquid

**Analysis Request**

- **Fabricate Soil**
- **Sampled**
- **10/01/2011**
- **11:50A**

**Turnaround**

- **Date**: 10/28/2011
- **Time**: 10:29

**Data Format**

- **Phoenix Std Report**
- **Excel**
- **PDF**
- **GIS/Key**
- **EqulS**
- **NJ Hazwoper EDD**
- **NY EZ EDD (ASP)**

**Data Package**

- **NJ Reduced Deliv.**
- **NY Enhanced (ASP B)**

**Matrix Code**

- **GOV. Waste**: 1 Ml
- **Flammable**: Yes
- **HEM**: Yes

**Product**

- **100 ml VOA vial**
- **Plastic**: 200 ml

**What State were samples collected?**

---

**Comments, Special Requirements or Regulations:**

---

**Relinquished by**: [Signature]

**Accepted by**: [Signature]