Friday, September 01, 2017

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

Project ID: CROTON RIVER
Sample ID#s: BY92697 - BY92708

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

**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:** LB  
- **Analyzed by:** see "By" below  

## Laboratory Data
- **SDG ID:** GBY92697  
- **Phoenix ID:** BY92697  

### Parameter Result

<table>
<thead>
<tr>
<th>Parameter</th>
<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>
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<td>H/H</td>
<td>E525.3</td>
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<td><strong>Semivolatile Organic</strong></td>
<td></td>
<td></td>
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<tr>
<td>Fluridone</td>
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<tr>
<td>% 1,3-Dimethyl-2-nitrobenzene</td>
<td>77</td>
<td>1</td>
<td>%</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td></td>
<td>08/31/17</td>
<td>MH</td>
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<tr>
<td>% benzo(a)pyrene-d12</td>
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<td>NA</td>
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<tr>
<td>% Triphenylphosphate</td>
<td>92</td>
<td>1</td>
<td>%</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
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<td>08/31/17</td>
<td>MH</td>
<td>70 - 130 %</td>
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</table>
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

September 01, 2017

Reviewed and Released by: Bobbi Aloisa, Vice President
Analysis Report  
September 01, 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: LB  
Analyzed by: see "By" below

Laboratory Data  
SDG ID: GBY92697  
Phoenix ID: BY92698

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Semivolatile Organic
Fluridone

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<tr>
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<tr>
<td>% benzo(a)pyrene-d12</td>
<td>91</td>
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<td>%</td>
<td>NA</td>
<td>NA</td>
<td>MH</td>
<td>70 - 130 %</td>
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<tr>
<td>% Triphenylphosphate</td>
<td>93</td>
<td>1</td>
<td>%</td>
<td>NA</td>
<td>NA</td>
<td>MH</td>
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Phyllis Shiller, Laboratory Director  
September 01, 2017  
Reviewed and Released by: Bobbi Aloisa, Vice President
## Sample Information
- Matrix: DRINKING WATER
- Location Code: SOLITUDE
- Rush Request: 72 Hour
- P.O.#: 

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

## Date
- 08/30/17

## Time
- 8:21
- 08/30/17 15:20

## Laboratory Data
- SDG ID: GBY92697
- Phoenix ID: BY92699

### Parameter

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<td>E525.3</td>
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<tr>
<td>% 1,3-Dimethyl-2-nitrobenzene</td>
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<td>1</td>
<td>%</td>
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<td>NA</td>
<td>NA</td>
<td>08/31/17</td>
<td>MH</td>
<td>70 - 130 %</td>
<td></td>
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<tr>
<td>% benzo(a)pyrene-d12</td>
<td>78</td>
<td>1</td>
<td>%</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>08/31/17</td>
<td>MH</td>
<td>70 - 130 %</td>
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<tr>
<td>% Triphenylphosphate</td>
<td>83</td>
<td>1</td>
<td>%</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>08/31/17</td>
<td>MH</td>
<td>70 - 130 %</td>
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Ver 1
Phoenix I.D.: BY92699

Project ID: CROTON RIVER
Client ID: DW3-A

Parameter Result

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September 01, 2017
Reviewed and Released by: Bobbi Aloisa, Vice President
Analysis Report
September 01, 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: LB
Analyzed by: see "By" below

Laboratory Data
SDG ID: GBY92697
Phoenix ID: BY92700

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<tr>
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<td></td>
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<tr>
<td>Fluridone</td>
<td>0.61</td>
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<td>ug/L</td>
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<tr>
<td>% 1,3-Dimethyl-2-nitrobenzene</td>
<td>82</td>
<td>1</td>
<td>%</td>
<td>NA</td>
<td>NA</td>
<td></td>
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<td>08/31/17</td>
<td>MH</td>
<td>70 - 130 %</td>
</tr>
<tr>
<td>% benzo(a)pyrene-d12</td>
<td>86</td>
<td>1</td>
<td>%</td>
<td>NA</td>
<td>NA</td>
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<td></td>
<td>08/31/17</td>
<td>MH</td>
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</tr>
<tr>
<td>% Triphenylphosphate</td>
<td>96</td>
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<td>NA</td>
<td>NA</td>
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<td>08/31/17</td>
<td>MH</td>
<td>70 - 130 %</td>
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### Parameters

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<th>Parameter</th>
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*Phyllis Shiller, Laboratory Director*

*September 01, 2017*

*Reviewed and Released by: Bobbi Aloisa, Vice President*
Analysis Report  
September 01, 2017

FOR: 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: LB  
- Analyzed by: see "By" below

Laboratory Data
- SDG ID: GBY92697  
- Phoenix ID: BY92701

Parameter | Result | RL/ PQL | DIL | Units | AL | MCL | MCLG | Date/Time | By | Reference
--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | ---
Extraction for 525.3 | Completed | 08/30/17 | H/H | E525.3
Semivolatile Organic
- Fluridone | 0.39 | 0.29 | 1 | ug/L | 08/31/17 | MH | E525.3
- QA/QC Surrogates
  - % 1,3-Dimethyl-2-nitrobenzene | 82 | % | NA | NA | NA | 08/31/17 | MH | 70 - 130 %
  - % benzo(a)pyrene-d12 | 86 | % | NA | NA | NA | 08/31/17 | MH | 70 - 130 %
  - % Triphenylphosphate | 93 | % | NA | NA | NA | 08/31/17 | MH | 70 - 130 %
### Comments:

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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: LB
Analyzed by: see "By" below

Laboratory Data

SDG ID: GBY92697
Phoenix ID: BY92702

Project ID: CROTON RIVER
Client ID: DW4-B

Parameter | Result | RL/ PQL | DIL | Units | AL | MCL | MCLG | Date/Time | By | Reference
---|---|---|---|---|---|---|---|---|---|---
Extraction for 525.3 | Completed | | | | | | | | H/H | E525.3

Semivolatile Organic

Fluridone | 0.32 | 0.29 | 1 | ug/L | | | | 08/31/17 | MH | E525.3

QA/QC Surrogates

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<th>Date/Time</th>
<th>By</th>
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<td>70 - 130 %</td>
</tr>
<tr>
<td>Benzo(a)pyrene-d12</td>
<td>78</td>
<td>1</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>08/31/17</td>
<td>MH</td>
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<tr>
<td>Triphenylphosphate</td>
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<td>70 - 130 %</td>
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Project ID: CROTON RIVER
Client ID: DW4-B

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Analysis Report  
September 01, 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: LB  
Analyzed by: see "By" below

Laboratory Data  
SDG ID: GBY92697  
Phoenix ID: BY92703

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Semivolatile Organic

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<th>By</th>
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QA/QC Surrogates

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<td>08/31/17</td>
<td>MH</td>
<td>70 - 130 %</td>
</tr>
<tr>
<td>benzo(a)pyrene-d12</td>
<td>96</td>
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<td>%</td>
<td>NA</td>
<td>08/31/17</td>
<td>MH</td>
<td>70 - 130 %</td>
</tr>
<tr>
<td>Triphenylphosphate</td>
<td>101</td>
<td>1</td>
<td>%</td>
<td>NA</td>
<td>08/31/17</td>
<td>MH</td>
<td>70 - 130 %</td>
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### 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.
- **Action Level (AL)**: (Lower of): 40 CFR Part 141.80; Public Health Law, Section 225 Part 5.
- **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.

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---

**Phyllis Shiller, Laboratory Director**  
September 01, 2017

Reviewed and Released by: Bobbi Aloisa, Vice President
Analysis Report  
September 01, 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: LB  
Analyzed by: see "By" below

Laboratory Data
SDG ID: GBY92697  
Phoenix ID: BY92704

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<td>% benzo(a)pyrene-d12</td>
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<tr>
<td>% Triphenylphosphate</td>
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<td>MH</td>
<td>70 - 130 %</td>
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Parameter | Result | RL/PQL | DIL | Units | AL | MCL | MCLG Date/Time | By | Reference
--- | --- | --- | --- | --- | --- | --- | --- | --- | ---

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Phyllis Shiller, Laboratory Director
September 01, 2017
Reviewed and Released by: Bobbi Aloisa, Vice President
Analysis Report  
September 01, 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: LB  
Analyzed by: see "By" below

Laboratory Data

SDG ID: GBY92697  
Phoenix ID: BY92705

UNH-1

CROTON RIVER

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**Semivolatile Organic**

Fluridone  
0.50  
0.29  
1  
ug/L  
08/31/17  
MH  
E525.3

**QA/QC Surrogates**

% 1,3-Dimethyl-2-nitrobenzene  
87  
1  
%  
NA  
NA  
NA  
08/31/17  
MH  
70 - 130 %

% benzo(a)pyrene-d12  
100  
1  
%  
NA  
NA  
NA  
08/31/17  
MH  
70 - 130 %

% Triphenylphosphate  
98  
1  
%  
NA  
NA  
NA  
08/31/17  
MH  
70 - 130 %
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Phyllis Shiller, Laboratory Director

September 01, 2017

Reviewed and Released by: Bobbi Aloisa, Vice President
### Sample Information

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

### Custody Information

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

### Laboratory Data

- **SDG ID:** GBY92697
- **Phoenix ID:** BY92706

### Parameter Results

#### Extraction for 525.3

- Completed

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

- **Fluridone:** 0.46 ug/L
- **Fluridone:** 0.29 ug/L

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<td>% benzo(a)pyrene-d12</td>
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<td>%</td>
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<td>NA</td>
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<td>08/31/17</td>
<td>MH</td>
<td>70 - 130 %</td>
</tr>
<tr>
<td>% Triphenylphosphate</td>
<td>94</td>
<td>1</td>
<td>%</td>
<td>NA</td>
<td>NA</td>
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---

Phyllis Shiller, Laboratory Director
September 01, 2017

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

**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:** LB  
- **Analyzed by:** see "By" below  
- **Date:** 08/30/17  
- **Time:** 9:53

**Project ID:** CROTON RIVER  
**Client ID:** HF-1

### Laboratory Data

**SDG ID:** GBY92697  
**Phoenix ID:** BY92707

#### Parameter Result

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#### Semivolatile Organic

**Fluridone**  
0.50  
0.29  
1  
ug/L  
08/31/17  
MH  
E525.3  
1

**QA/QC Surrogates**
- **% 1,3-Dimethyl-2-nitrobenzene**  
79  
1  
%  
NA  
NA  
NA  
08/31/17  
MH  
70 - 130 %
- **% benzo(a)pyrene-d12**  
88  
1  
%  
NA  
NA  
NA  
08/31/17  
MH  
70 - 130 %
- **% Triphenylphosphate**  
96  
1  
%  
NA  
NA  
NA  
08/31/17  
MH  
70 - 130 %
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Phyllis Shiller, Laboratory Director
September 01, 2017

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

**September 01, 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:** LB  
- **Analyzed by:** see "By" below

## Laboratory Data

- **SDG ID:** GBY92697  
- **Phoenix ID:** BY92708

### Laboratory Data

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<tr>
<td>% 1,3-Dimethyl-2-nitrobenzene</td>
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<td>%</td>
<td>NA</td>
<td>NA</td>
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<tr>
<td>% benzo(a)pyrene-d12</td>
<td>87</td>
<td>1</td>
<td>%</td>
<td>NA</td>
<td>NA</td>
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<td>MH</td>
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</tr>
<tr>
<td>% Triphenylphosphate</td>
<td>91</td>
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<td>%</td>
<td>NA</td>
<td>NA</td>
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<td>09/01/17</td>
<td>MH</td>
<td>70 - 130 %</td>
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Phyllis Shiller, Laboratory Director
September 01, 2017
Reviewed and Released by: Bobbi Aloisa, Vice President
# QA/QC Data

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<th>MSD</th>
<th>MS</th>
<th>% Rec Limits</th>
<th>% RPD Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>QA/QC Batch 399755 (ug/L), QC Sample No: BY92697 (BY92697, BY92698, BY92699, BY92700, BY92701, BY92702, BY92703, BY92704, BY92705, BY92706, BY92707, BY92708)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Semivolatile Organic Compounds - Drinking Water</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>ND</td>
<td>99</td>
<td>105</td>
<td>84</td>
<td>8</td>
<td>22.2</td>
<td>70 - 130</td>
<td>20 r</td>
<td></td>
</tr>
<tr>
<td>% 1,3-Dimethyl-2-nitrobenzene</td>
<td>84</td>
<td>86</td>
<td>82</td>
<td>85</td>
<td>3.6</td>
<td>70 - 130</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>% benzo(a)pyrene-d12</td>
<td>96</td>
<td>92</td>
<td>94</td>
<td>92</td>
<td>2.2</td>
<td>70 - 130</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>% Triphenylphosphate</td>
<td>98</td>
<td>97</td>
<td>99</td>
<td>97</td>
<td>2.0</td>
<td>70 - 130</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Comment: Tap water, collected and dechlorinated in sample containers, was used as the MS and MSD.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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**

**Inf - Interference**

---

Phyllis Shiller, Laboratory Director

September 01, 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.

---

### Sample Criteria Exceedances Report

**GBY92697 - SOLITUDE**

<table>
<thead>
<tr>
<th>SampNo</th>
<th>Acode</th>
<th>Phoenix Analyte</th>
<th>Criteria</th>
<th>Result</th>
<th>RL</th>
<th>Criteria</th>
<th>RL</th>
<th>Analysis Units</th>
</tr>
</thead>
</table>

*** No Data to Display ***
Analysis Comments
September 01, 2017

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report: None.
The samples in this delivery group were received at 1.6°C.
(Note acceptance criteria is above freezing up to 6°C)
**NY/NJ CHAIN OF CUSTODY RECORD**

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: Solitude Vale Management
Address: 310 East Washington Ave, Suite C Washington, NJ 07087
Project: Croton River
Report to: Chris Doyle
Invoice to: Krista H.

**Client Sample - Information - Identification**

<table>
<thead>
<tr>
<th>Sampler's Signature</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emily Mayer</td>
<td>8/20/17</td>
</tr>
</tbody>
</table>

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

**PHOENIX USE ONLY SAMPLE #**

<table>
<thead>
<tr>
<th>Customer Sample Identification</th>
<th>Sample Matrix</th>
<th>Date Sampled</th>
<th>Time Sampled</th>
</tr>
</thead>
<tbody>
<tr>
<td>DW-1-A</td>
<td>DW</td>
<td>8/20/17</td>
<td>6:48</td>
</tr>
<tr>
<td>DW-1-B</td>
<td></td>
<td>8:48</td>
<td></td>
</tr>
<tr>
<td>DW-3-A</td>
<td>DW</td>
<td>8:21</td>
<td></td>
</tr>
<tr>
<td>DW-3-B</td>
<td></td>
<td>8:21</td>
<td></td>
</tr>
<tr>
<td>DW-4-A</td>
<td>DW</td>
<td>8:31</td>
<td></td>
</tr>
<tr>
<td>DW-4-B</td>
<td></td>
<td>8:31</td>
<td></td>
</tr>
<tr>
<td>FN-1-A</td>
<td>FN</td>
<td>8:42</td>
<td></td>
</tr>
<tr>
<td>FN-1-B</td>
<td>FN</td>
<td>8:42</td>
<td></td>
</tr>
<tr>
<td>UNH-1</td>
<td>UNH</td>
<td>9:22</td>
<td></td>
</tr>
<tr>
<td>MB-1</td>
<td></td>
<td>9:38</td>
<td></td>
</tr>
<tr>
<td>HF-1</td>
<td></td>
<td>9:53</td>
<td></td>
</tr>
</tbody>
</table>

**Analysis Request**

- Fluorocine

**Turnaround:**
- 1 Day*
- 2 Days*
- 3 Days*
- 5 Days
- 10 Days
- Other

**State where samples were collected:**

Note: NEW address!
NY/NJ CHAIN OF CUSTODY RECORD

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: Solitude Lake Management
Address: 310 East Washington Ave Suite C Washington, NJ 07882
Project: Aratron River
Report to: Chris Doyle
Invoice to: Krista Holl

Sampling Information - Identification
Sampler's Signature: Emily Mayer
Date: 8/30/17

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:

Sample ID: 92708 RF4-1
Sample Matrix: DW
Sample Date: 8/30/17 10:04

Relinquished by: Emily Mayer
Accepted by: Paradene
Date: 8/30/17

Time: 11:07

State where samples were collected:

Note: New address!