Thursday, November 09, 2017

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

Project ID: CROTON RIVER
Sample ID#s: BZ32679 - BZ32686

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                 NJ Lab Registration #CT-003
CT Lab Registration #PH-0618      NY Lab Registration #11301
MA Lab Registration #M-CT007      PA Lab Registration #68-03530
ME Lab Registration #CT-007       RI Lab Registration #63
NH Lab Registration #213693-A,B   VT Lab Registration #VT11301
Analysis Report
November 09, 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: GBZ32679
Phoenix ID: BZ32679

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<th>MCLG</th>
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Phoenix I.D.: BZ32679
Client ID: FW1-A

Parameter | Result | PQL | DIL | Units | AL | MCL | MCLG | Date/Time | By | Reference
--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | ---

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Phyllis Shiller, Laboratory Director
November 09, 2017
Reviewed and Released by: Bobbi Aloisa, Vice President
Analysis Report
November 09, 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: GBZ32679
Phoenix ID: BZ32680

Parameter Result

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<tr>
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**Parameters**

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</thead>
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Phyllis Shiller, Laboratory Director
November 09, 2017

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**Analysis Report**
November 09, 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:** GBZ32679
- **Phoenix ID:** BZ32681

#### Parameter Result

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<th>MCLG</th>
<th>Date/Time</th>
<th>By</th>
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<tr>
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<td>11/08/17</td>
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<tr>
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<td>% benzo(a)pyrene-d12</td>
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<td>70 - 130 %</td>
<td></td>
</tr>
<tr>
<td>% Triphenylphosphate</td>
<td>89</td>
<td>1</td>
<td>%</td>
<td>NA</td>
<td>NA</td>
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525 Analysis:

Chlorine was present; Sample was de-chlorinated prior to extraction/analysis. (EPA requires dechlorination at time of sampling.) A sample bias can not be ruled out.

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Phyllis Shiller, Laboratory Director
November 09, 2017

Reviewed and Released by: Bobbi Aloisa, Vice President
Analysis Report  
November 09, 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

Date  Time
11/05/17  9:26  
11/05/17  11:45

Laboratory Data
SDG ID: GBZ32679  
Phoenix ID: BZ32682

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<tr>
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<td>70 - 130 %</td>
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<td>Triphenylphosphate</td>
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<td>NA</td>
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November 09, 2017

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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: GBZ32679
Phoenix ID: BZ32683

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Semivolatile Organic

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<th>Date/Time</th>
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<th>Reference</th>
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<td>84</td>
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<td>11/08/17</td>
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<td>benzo(a)pyrene-d12</td>
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<td>70 - 130 %</td>
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<tr>
<td>Triphenylphosphate</td>
<td>86</td>
<td>1</td>
<td>%</td>
<td>NA</td>
<td>NA</td>
<td></td>
<td></td>
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- Location Code: SOLITUDE
- Rush Request: 72 Hour
- P.O.#:

Project ID: CROTON RIVER
Client ID: DW3-B

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

Laboratory Data
- SDG ID: GBZ32679
- Phoenix ID: BZ32684

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<td>H/H</td>
<td>E525.3</td>
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<tr>
<td>Fluridone</td>
<td>0.60</td>
<td>0.29</td>
<td>1</td>
<td>ug/L</td>
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<td>11/08/17</td>
<td>MH</td>
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<tr>
<td>% 1,3-Dimethyl-2-nitrobenzene</td>
<td>80</td>
<td>1</td>
<td>%</td>
<td>NA</td>
<td>NA</td>
<td></td>
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<td>11/08/17</td>
<td>MH</td>
<td>70 - 130 %</td>
</tr>
<tr>
<td>% benzo(a)pyrene-d12</td>
<td>85</td>
<td>1</td>
<td>%</td>
<td>NA</td>
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<td>11/08/17</td>
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<tr>
<td>% Triphenylphosphate</td>
<td>90</td>
<td>1</td>
<td>%</td>
<td>NA</td>
<td>NA</td>
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<td>MH</td>
<td>70 - 130 %</td>
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Ver 1
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Phyllis Shiller, Laboratory Director
November 09, 2017
Reviewed and Released by: Bobbi Aloisa, Vice President
Analysis Report
November 09, 2017

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

Sample Information

<table>
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<th>DIL</th>
<th>Units</th>
<th>AL</th>
<th>MCL</th>
<th>MCLG</th>
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<th>By</th>
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<td>E525.3</td>
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Semivolatile Organic

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<th>Units</th>
<th>AL</th>
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<tr>
<td>Fluridone</td>
<td>0.73</td>
<td>0.29</td>
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<td></td>
<td></td>
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QA/QC Surrogates

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<th>Units</th>
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<th>MCLG</th>
<th>Date/Time</th>
<th>By</th>
<th>Reference</th>
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<tbody>
<tr>
<td>% 1,3-Dimethyl-2-nitrobenzene</td>
<td>84</td>
<td>1</td>
<td>%</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td></td>
<td>11/08/17</td>
<td>MH</td>
<td>70 - 130 %</td>
</tr>
<tr>
<td>% benzo(a)pyrene-d12</td>
<td>87</td>
<td>1</td>
<td>%</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td></td>
<td>11/08/17</td>
<td>MH</td>
<td>70 - 130 %</td>
</tr>
<tr>
<td>% Triphenylphosphate</td>
<td>89</td>
<td>1</td>
<td>%</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td></td>
<td>11/08/17</td>
<td>MH</td>
<td>70 - 130 %</td>
</tr>
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### Parameter Results

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<th>DIL</th>
<th>Units</th>
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<th>Date/Time</th>
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Phyllis Shiller, Laboratory Director

November 09, 2017

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

**November 09, 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  
- **Date:** 11/05/17  
- **Time:** 9:06

#### Laboratory Data

**SDG ID:** GBZ32679  
**Phoenix ID:** BZ32686

#### Parameter Result

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<th>Units</th>
<th>AL</th>
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<th>MCLG</th>
<th>Date/Time</th>
<th>By</th>
<th>Reference</th>
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<tr>
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<td></td>
<td></td>
<td></td>
<td></td>
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<td>11/07/17</td>
<td>H/H</td>
<td>E525.3</td>
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<tr>
<td><strong>Semivolatile Organic</strong></td>
<td></td>
<td></td>
<td></td>
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<td></td>
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<td></td>
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<tr>
<td>Fluridone</td>
<td>0.71</td>
<td>0.30</td>
<td>1</td>
<td>ug/L</td>
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<td>11/08/17</td>
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<td>E525.3</td>
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<tr>
<td><strong>QA/QC Surrogates</strong></td>
<td></td>
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<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>% 1,3-Dimethyl-2-nitrobenzene</td>
<td>88</td>
<td>1</td>
<td>%</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td></td>
<td>11/08/17</td>
<td>MH</td>
<td>70 - 130 %</td>
</tr>
<tr>
<td>% benzo(a)pyrene-d12</td>
<td>89</td>
<td>1</td>
<td>%</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td></td>
<td>11/08/17</td>
<td>MH</td>
<td>70 - 130 %</td>
</tr>
<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>11/08/17</td>
<td>MH</td>
<td>70 - 130 %</td>
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Ver 1
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Phyllis Shiller, Laboratory Director  
November 09, 2017  
Reviewed and Released by: Bobbi Aloisa, Vice President
QA/QC Data

Parameter | Blank | Blk | RL |
--- | --- | --- | --- |
| | | | |

Semivolatile Organic Compounds - Drinking Water

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

Semivolatile Organic Compounds - Drinking Water

Tap water, collected and dechlorinated in sample containers, was used as the MS. A blank MS was analyzed with this batch.

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
November 09, 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.
The samples in this delivery group were received at °C.
(Note acceptance criteria is above freezing up to 6°C)
Thursday, November 09, 2017

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

Project ID: CROTON RIVER
Sample ID#s: BZ32687 - BZ32690

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                NJ Lab Registration #CT-003
CT Lab Registration #PH-0618     NY Lab Registration #11301
MA Lab Registration #M-CT007     PA Lab Registration #68-03530
ME Lab Registration #CT-007      RI Lab Registration #63
NH Lab Registration #213693-A,B  VT Lab Registration #VT11301
Analysis Report
November 09, 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

Date Time
11/05/17 8:00
11/05/17 11:45

Laboratory Data
SDG ID: GBZ32687
Phoenix ID: BZ32687

Project ID: CROTON RIVER
Client ID: UNH-1

Parameter Result RL/PQL DIL Units AL MCL MCLG Date/Time By Reference
Extraction for 525.3 Completed 11/07/17 H/H E525.3

Semivolatile Organic
Fluridone 0.62 0.29 1 ug/L 11/08/17 MH E525.3

QA/QC Surrogates
% 1,3-Dimethyl-2-nitrobenzene 86 1 % NA NA NA 11/08/17 MH 70 - 130 %
% benzo(a)pyrene-d12 84 1 % NA NA NA 11/08/17 MH 70 - 130 %
% Triphenylphosphate 91 1 % NA NA NA 11/08/17 MH 70 - 130 %
<table>
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<th>AL</th>
<th>MCL</th>
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November 09, 2017

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Analysis Report
November 09, 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

Date       Time
11/05/17   8:20
11/05/17   11:45

Laboratory Data
SDG ID: GBZ32687
Phoenix ID: BZ32688

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<th>Date/Time</th>
<th>By</th>
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<td>E525.3</td>
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<td></td>
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<tr>
<td>Fluridone</td>
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<td>0.29</td>
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<td>ug/L</td>
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<td></td>
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<td>MH</td>
<td>E525.3</td>
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<td></td>
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<tr>
<td>% 1,3-Dimethyl-2-nitrobenzene</td>
<td>55</td>
<td>1</td>
<td>%</td>
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<td>NA</td>
<td>NA</td>
<td></td>
<td>11/08/17</td>
<td>MH</td>
<td>70 - 130 %</td>
</tr>
<tr>
<td>% benzo(a)pyrene-d12</td>
<td>72</td>
<td>1</td>
<td>%</td>
<td>NA</td>
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<tr>
<td>% Triphenylphosphate</td>
<td>73</td>
<td>1</td>
<td>%</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td></td>
<td>11/08/17</td>
<td>MH</td>
<td>70 - 130 %</td>
</tr>
</tbody>
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525 Analysis:
Chlorine was present; Sample was de-chlorinated prior to extraction/analysis. (EPA requires dechlorination at time of sampling.) A sample bias can not be ruled out.

525 Analysis Comment:
Poor surrogate recovery was observed. Sample was extracted and analyzed twice with similar results indicating matrix interference.

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---

Phyllis Shiller, Laboratory Director
November 09, 2017

Reviewed and Released by: Bobbi Aloisa, Vice President
Analysis Report
November 09, 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

Date Time
11/05/17 8:37
11/05/17 11:45

Laboratory Data
SDG ID: GBZ32687
Phoenix ID: BZ32689

Parameter Result RL/ PQL DIL Units AL MCL MCLG Date/Time By Reference
Extraction for 525.3 Completed 11/07/17 H/H E525.3

Semivolatile Organic
Fluridone 0.64 0.29 1 ug/L 11/08/17 MH E525.3

QA/QC Surrogates
% 1,3-Dimethyl-2-nitrobenzene 76 1 % NA NA NA 11/08/17 MH 70 - 130 %
% benzo(a)pyrene-d12 79 1 % NA NA NA 11/08/17 MH 70 - 130 %
% Triphenylphosphate 86 1 % NA NA NA 11/08/17 MH 70 - 130 %
<table>
<thead>
<tr>
<th>Parameter</th>
<th>Result</th>
<th>PQL</th>
<th>DIL</th>
<th>Units</th>
<th>AL</th>
<th>MCL</th>
<th>MCLG Date/Time</th>
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November 09, 2017
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Analysis Report
November 09, 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

Date Time
11/05/17 8:50
11/05/17 11:45

Laboratory Data
SDG ID: GBZ32687
Phoenix ID: BZ32690

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Result</th>
<th>RL/</th>
<th>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>
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<tr>
<td>Semivolatile Organic</td>
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<tr>
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<td>0.29</td>
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<td>1</td>
<td>%</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>11/08/17</td>
<td>MH</td>
<td>70 - 130 %</td>
<td></td>
</tr>
<tr>
<td>% benzo(a)pyrene-d12</td>
<td>83</td>
<td></td>
<td>1</td>
<td>%</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>11/08/17</td>
<td>MH</td>
<td>70 - 130 %</td>
<td></td>
</tr>
<tr>
<td>% Triphenylphosphate</td>
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<td></td>
<td>1</td>
<td>%</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>11/08/17</td>
<td>MH</td>
<td>70 - 130 %</td>
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</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</td>
<td>Date/Time</td>
<td>By</td>
<td>Reference</td>
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</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 (preceded 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**

**November 09, 2017**

Reviewed and Released by: Bobbi Aloisa, Vice President
### QA/QC Data

#### QA/QC Report

November 09, 2017

#### QA/QC Data

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Blank RL</th>
<th>LCS %</th>
<th>LCSD %</th>
<th>LCS RPD</th>
<th>MS %</th>
<th>MSD %</th>
<th>MS RPD</th>
<th>% Rec Limits</th>
<th>% RPD Limits</th>
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</thead>
<tbody>
<tr>
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<tr>
<td>Semivolatile Organic Compounds - Drinking Water</td>
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<tr>
<td>Fluridone</td>
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<tr>
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<td>80</td>
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<td>89</td>
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<td>90</td>
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<td>70 - 130</td>
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<tr>
<td>% benzo(a)pyrene-d12</td>
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<td>%</td>
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<td>88</td>
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<tr>
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<td>85</td>
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<td>92</td>
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<td>70 - 130</td>
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</table>

Comment:
Tap water, collected and dechlorinated in sample containers, was used as the MS. A blank MS was analyzed with this batch.

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

Phyllis Shiller, Laboratory Director
November 09, 2017

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
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.
The samples in this delivery group were received at 5°C. 
(Note acceptance criteria is above freezing up to 6°C)