Friday, October 27, 2017

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

Project ID:  CROTON RIVER  
Sample ID#s: BZ25045 - BZ25056

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  

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040  
Telephone (860) 645-1102  Fax (860) 645-0823
## Analysis Report

October 27, 2017

### 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:** GBZ25045
- **Phoenix ID:** BZ25045

#### Parameter Results

<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>
<th>By</th>
<th>Reference</th>
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<td>H/H</td>
<td>E525.3</td>
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<tr>
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<td>10/24/17</td>
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<td>E525.3</td>
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<td>10/24/17</td>
<td>MH</td>
<td>70 - 130 %</td>
</tr>
<tr>
<td>% benzo(a)pyrene-d12</td>
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<td>%</td>
<td>NA</td>
<td>NA</td>
<td></td>
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<td>10/24/17</td>
<td>MH</td>
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<tr>
<td>% Triphenylphosphate</td>
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<td>%</td>
<td>NA</td>
<td>NA</td>
<td></td>
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<td>70 - 130 %</td>
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**Comments:**

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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.

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
October 27, 2017

Reviewed and Released by: Bobbi Aloisa, Vice President
### Analysis Report
October 27, 2017

#### 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:** GBZ25045
- **Phoenix ID:** BZ25046

#### Parameter | Result | RL/ PQL | DIL | Units | AL | MCL | MCLG | Date/Time | By | Reference |
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<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Fluridone</td>
<td>0.60</td>
<td>0.29</td>
<td>1</td>
<td>ug/L</td>
<td></td>
<td></td>
<td></td>
<td>10/24/17</td>
<td>MH</td>
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<tr>
<td>% 1,3-Dimethyl-2-nitrobenzene</td>
<td>95</td>
<td>1</td>
<td>%</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>10/24/17</td>
<td>MH</td>
<td>70 - 130 %</td>
<td></td>
</tr>
<tr>
<td>% benzo(a)pyrene-d12</td>
<td>94</td>
<td>1</td>
<td>%</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>10/24/17</td>
<td>MH</td>
<td>70 - 130 %</td>
<td></td>
</tr>
<tr>
<td>% Triphenylphosphate</td>
<td>100</td>
<td>1</td>
<td>%</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>10/24/17</td>
<td>MH</td>
<td>70 - 130 %</td>
<td></td>
</tr>
</tbody>
</table>

Ver 1
Parameter | Result | PQL | DIL | Units | AL | MCL | MCLG | Date/Time | By | Reference
--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | ---

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Phyllis Shiller, Laboratory Director
October 27, 2017
Reviewed and Released by: Bobbi Aloisa, Vice President
Analysis Report
October 27, 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: GBZ25045
Phoenix ID: BZ25047

Parameter Result
RL/ PQL Units Date/Time By Reference

Extraction for 525.3 Completed 10/23/17 H/H E525.3

Semivolatile Organic
Fluridone 1.2 0.29 1 ug/L 10/24/17 MH E525.3

QA/QC Surrogates
% 1,3-Dimethyl-2-nitrobenzene 86 1 % NA NA NA 10/24/17 MH 70 - 130 %
% benzo(a)pyrene-d12 91 1 % NA NA NA 10/24/17 MH 70 - 130 %
% Triphenylphosphate 104 1 % NA NA NA 10/24/17 MH 70 - 130 %
<table>
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<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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**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.


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October 27, 2017

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Analysis Report
October 27, 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: GBZ25045
Phoenix ID: BZ25048

Parameter | Result | RL/PQL | DIL | Units | AL | MCL | MCLG | Date/Time | By | Reference
--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | ---
Extraction for 525.3 | Completed | | | | | | | 10/23/17 | H/H | E525.3

Semivolatile Organic
Fluridone | 1.2 | 0.29 | 1 | ug/L | | | | 10/24/17 | MH | E525.3 | 1

QA/QC Surrogates
% 1,3-Dimethyl-2-nitrobenzene | 85 | 1 | % | NA | NA | NA | 10/24/17 | MH | 70 - 130 %
% benzo(a)pyrene-d12 | 91 | 1 | % | NA | NA | NA | 10/24/17 | MH | 70 - 130 %
% Triphenylphosphate | 102 | 1 | % | NA | NA | NA | 10/24/17 | 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>
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October 27, 2017

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Analysis Report  
October 27, 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.#: 

**Laboratory Data**
- SDG ID: GBZ25045  
- Phoenix ID: BZ25049

### Laboratory Data

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

**Semivolatile Organic**

- Fluridone: 0.60  
- QA/QC Surrogates
  - % 1,3-Dimethyl-2-nitrobenzene: 87  
  - % benzo(a)pyrene-d12: 94  
  - % Triphenylphosphate: 102

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<th>Units</th>
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<th>By</th>
<th>Reference</th>
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<tr>
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<td>0.60</td>
<td>0.29</td>
<td>1</td>
<td>ug/L</td>
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<td>1</td>
<td>%</td>
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<td>NA</td>
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<tr>
<td>% benzo(a)pyrene-d12</td>
<td>94</td>
<td>1</td>
<td>%</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
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<td>10/24/17</td>
<td>MH</td>
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</tr>
<tr>
<td>% Triphenylphosphate</td>
<td>102</td>
<td>1</td>
<td>%</td>
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<td>NA</td>
<td>NA</td>
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<td>10/24/17</td>
<td>MH</td>
<td>70 - 130 %</td>
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- **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:** GBZ25045  
- **Phoenix ID:** BZ25050

### Parameter Result

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<td>E525.3</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>% 1,3-Dimethyl-2-nitrobenzene</td>
<td>91</td>
<td>1</td>
<td>%</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td></td>
<td>10/24/17</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>NA</td>
<td></td>
<td>10/24/17</td>
<td>MH</td>
<td>70 - 130 %</td>
</tr>
<tr>
<td>% Triphenylphosphate</td>
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- **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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October 27, 2017

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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: GBZ25045
Phoenix ID: BZ25051

Parameter Result
RL/ PQL DIL Units AL MCL MCLG Date/Time By Reference
Extraction for 525.3 Completed 10/23/17 H/H E525.3

Semivolatile Organic
Fluridone 0.61 0.29 1 ug/L 10/24/17 MH E525.3

QA/QC Surrogates
% 1,3-Dimethyl-2-nitrobenzene 94 1 % NA NA NA 10/24/17 MH 70 - 130 %
% benzo(a)pyrene-d12 94 1 % NA NA NA 10/24/17 MH 70 - 130 %
% Triphenylphosphate 104 1 % NA NA NA 10/24/17 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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Phyllis Shiller, Laboratory Director
October 27, 2017

Reviewed and Released by: Bobbi Aloisa, Vice President
Analysis Report
October 27, 2017

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
--- | ---
10/22/17 | 8:30
10/22/17 | 11:30

Laboratory Data
- SDG ID: GBZ25045
- Phoenix ID: BZ25052

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<tr>
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<td>HM</td>
<td>70 - 130 %</td>
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<tr>
<td>% benzo(a)pyrene-d12</td>
<td>87</td>
<td>1</td>
<td>%</td>
<td>NA</td>
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<td>NA</td>
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<tr>
<td>% Triphenylphosphate</td>
<td>95</td>
<td>1</td>
<td>%</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>10/25/17</td>
<td>HM</td>
<td>70 - 130 %</td>
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Parameter Result PQL DIL Units AL MCL MCLG Date/Time By Reference

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Phyllis Shiller, Laboratory Director
October 27, 2017
Reviewed and Released by: Bobbi Aloisa, Vice President
Analysis Report  
October 27, 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  
10/22/17  
10/22/17  
10/22/17

Time  
7:40  
11:30  
see "By" below

Laboratory Data  
SDG ID: GBZ25045  
Phoenix ID: BZ25053

Laboratory Data  
UNH1

Parameter  
Extraction for 525.3  
Semivolatile Organic  
Fluridone  
QA/QC Surrogates  
% 1,3-Dimethyl-2-nitrobenzene  
% benzo(a)pyrene-d12  
% Triphenylphosphate  

Result  
Completed  
0.50  
0.29  

RL/PQL  
PQL  
DIL  
Units  
ug/L  

Date/Time  
10/24/17  
10/25/17  
10/25/17  
10/25/17  
10/25/17

By  
H/H  
H/H  
H/H  
H/H

Reference  
E525.3  
E525.3  
E525.3  
E525.3  
E525.3

Semivolatile Organic  
Fluridone  
0.50  
1  
ug/L

QA/QC Surrogates  
% 1,3-Dimethyl-2-nitrobenzene  
89  
1  
%  
NA  
NA  
NA

% benzo(a)pyrene-d12  
87  
1  
%  
NA  
NA  
NA

% Triphenylphosphate  
92  
1  
%  
NA  
NA  
NA

Ver 1
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<th>MCLG</th>
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Phyllis Shiller, Laboratory Director  
October 27, 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:** GBZ25045
- **Phoenix ID:** BZ25054

#### Parameter Result

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<td>Fluridone</td>
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<tr>
<td>% 1,3-Dimethyl-2-nitrobenzene</td>
<td>92</td>
<td>1  %</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>10/25/17</td>
<td>HM</td>
<td>70 - 130 %</td>
<td></td>
<td></td>
</tr>
<tr>
<td>% benzo(a)pyrene-d12</td>
<td>87</td>
<td>1  %</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>10/25/17</td>
<td>HM</td>
<td>70 - 130 %</td>
<td></td>
<td></td>
</tr>
<tr>
<td>% Triphenylphosphate</td>
<td>98</td>
<td>1  %</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>10/25/17</td>
<td>HM</td>
<td>70 - 130 %</td>
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</table>
Parameter Result PQL DIL Units AL MCL MCLG Date/Time By Reference

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Phyllis Shiller, Laboratory Director
October 27, 2017
Reviewed and Released by: Bobbi Aloisa, Vice President
Analysis Report
October 27, 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: GBZ25045
Phoenix ID: BZ25055

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<th>MCLG</th>
<th>Date/Time</th>
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</table>

Semivolatile Organic

Fluridone
0.44 0.29 1 ug/L 10/25/17 HM E525.3

QA/QC Surrogates

% 1,3-Dimethyl-2-nitrobenzene 92 1 % NA NA NA 10/25/17 HM 70 - 130 %
% benzo(a)pyrene-d12 82 1 % NA NA NA 10/25/17 HM 70 - 130 %
% Triphenylphosphate 96 1 % NA NA NA 10/25/17 HM 70 - 130 %

Ver 1
### 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.


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<th>AL</th>
<th>MCL</th>
<th>MCLG Date/Time</th>
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---

Phyllis Shiller, Laboratory Director  
October 27, 2017  
Reviewed and Released by: Bobbi Aloisa, Vice President
Analysis Report  
October 27, 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: GBZ25045
Phoenix ID: BZ25056

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**Semivolatile Organic**

Fluridone  
0.46  
0.29  
1  
ug/L  
10/26/17  
MH  
E525.3

**QA/QC Surrogates**

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<th>%</th>
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<tr>
<td>1,3-Dimethyl-2-nitrobenzene</td>
<td>92</td>
<td>%</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>10/26/17</td>
<td>MH</td>
<td>70 - 130 %</td>
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<tr>
<td>benzo(a)pyrene-d12</td>
<td>85</td>
<td>%</td>
<td>NA</td>
<td>NA</td>
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<td>MH</td>
<td>70 - 130 %</td>
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<tr>
<td>Triphenylphosphate</td>
<td>89</td>
<td>%</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>10/26/17</td>
<td>MH</td>
<td>70 - 130 %</td>
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### Parameter Results Table

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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.

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

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---

**Phyllis Shiller, Laboratory Director**

**October 27, 2017**

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

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<th>MS %</th>
<th>MSD %</th>
<th>MS RPD</th>
<th>% Rec Limits</th>
<th>% RPD Limits</th>
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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>
<td>% 1,3-Dimethyl-2-nitrobenzene</td>
<td>74 %</td>
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<td>% benzo(a)pyrene-d12</td>
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<td></td>
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<tr>
<td>Tap water, collected and dechlorinated in sample containers, was used as the MS and MSD.</td>
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<td>Fluridone</td>
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<tr>
<td>% 1,3-Dimethyl-2-nitrobenzene</td>
<td>78 %</td>
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<tr>
<td>% benzo(a)pyrene-d12</td>
<td>72 %</td>
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<tr>
<td>% Triphenylphosphate</td>
<td>82 %</td>
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<tr>
<td>Tap water, collected and dechlorinated in sample containers, was used as the MS and MSD.</td>
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<td>QA/QC Batch 407105 (ug/L), QC Sample No: BZ25056 (BZ25056)</td>
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<td>Semivolatile Organic Compounds - Drinking Water</td>
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<td>Fluridone</td>
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<tr>
<td>% 1,3-Dimethyl-2-nitrobenzene</td>
<td>92 %</td>
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<tr>
<td>% Triphenylphosphate</td>
<td>93 %</td>
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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
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.
Analysis Comments

October 27, 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 2.1°C.
(Note acceptance criteria is above freezing up to 6°C)
<table>
<thead>
<tr>
<th>PHOENIX USE ONLY</th>
<th>Customer Sample Identification</th>
<th>Sample Matrix</th>
<th>Date Sampled</th>
<th>Time Sampled</th>
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<tbody>
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<td>25045</td>
<td>FW1A</td>
<td>DW</td>
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<td>25046</td>
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<tr>
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Authenticated by: [Signature]

Date: 10/22/17 9:19
Time: 10:10-17 11:30

Comments, Special Requirements or Regulations:

What State were samples collected from?

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<tr>
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<td>2 Days*</td>
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<td>3 Days*</td>
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<tr>
<td>5 Days</td>
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<td>10 Days</td>
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<td>Other</td>
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<tr>
<td>* SURCHARGE APPLIES</td>
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<table>
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<tr>
<td>Res. Criteria</td>
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<td>Non-Res. Criteria</td>
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<tr>
<td>Impact to GW Soil Cleanup Criteria</td>
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<td>Impact to GW soil screen Criteria</td>
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<td>GW Criteria</td>
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<tr>
<td>TOGS GW</td>
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<td>3755CCO</td>
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Data Format:

- Phoenix Std Report
- Excel
- PDF
- GIS/Key
- EQuIS
- NJ Hazat EDD
- NY EZ EDD (ASP)
- Other

Data Package:

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