Monday, September 11, 2017

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

Project ID: CROTON RIVER
Sample ID#s: BY97862 - BY97872

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  
September 11, 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: VT  
Received by: LB  
Analyzed by: see "By" below

Laboratory Data  
SDG ID: GBY97862  
Phoenix ID: BY97862

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**QA/QC Surrogates**

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<td>70 - 130 %</td>
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<td>benzo(a)pyrene-d12</td>
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<td>09/11/17</td>
<td>MH</td>
<td>70 - 130 %</td>
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<tr>
<td>Triphenylphosphate</td>
<td>106</td>
<td>1</td>
<td>09/11/17</td>
<td>MH</td>
<td>70 - 130 %</td>
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<td>PQL</td>
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<td>Units</td>
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Phyllis Shiller, Laboratory Director  
September 11, 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:** VT
- **Received by:** LB
- **Analyzed by:** see "By" below

**Laboratory Data**

- **SDG ID:** GBY97862
- **Phoenix ID:** BY97863

**Parameter** | **Result** | **RL/PQL** | **DIL** | **Units** | **AL** | **MCL** | **MCLG** | **Date/Time** | **By** | **Reference**
--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | ---
Extraction for 525.3 | Completed | | | | | | | 09/08/17 | H/H | E525.3

**Semivolatile Organic**

| Parameter | Result | RL/PQL | DIL | Units | AL | MCL | MCLG | Date/Time | By | Reference |
--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | ---
Fluridone | 1.3 | 0.29 | 1 | ug/L | | | | 09/11/17 | MH | E525.3

**QA/QC Surrogates**

| Parameter | Value | R | Units | By | Reference |
--- | --- | --- | --- | --- | ---
% 1,3-Dimethyl-2-nitrobenzene | 84 | 1 | % | NA | MH | 70 - 130 %
% benzo(a)pyrene-d12 | 98 | 1 | % | NA | MH | 70 - 130 %
% Triphenylphosphate | 107 | 1 | % | NA | MH | 70 - 130 %
### 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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Phyllis Shiller, Laboratory Director  
September 11, 2017  
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### Sample Information
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- **Location Code:** SOLITUDE
- **Rush Request:** 72 Hour
- **P.O.:#:**

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

### Laboratory Data
- **SDG ID:** GBY97862
- **Phoenix ID:** BY97864

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<td>%</td>
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<tr>
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### Parameter Results

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Phyllis Shiller, Laboratory Director  
September 11, 2017  
Reviewed and Released by: Bobbi Aloisa, Vice President
Analysis Report  
September 11, 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:** VT  
- **Received by:** LB  
- **Analyzed by:** see "By" below  

### Laboratory Data
- **SDG ID:** GBY97862  
- **Phoenix ID:** BY97865

#### Parameter Result

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#### Semivolatile Organic

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#### QA/QC Surrogates

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<td>% benzo(a)pyrene-d12</td>
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<td>%</td>
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<td>% Triphenylphosphate</td>
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<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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September 11, 2017
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### Analysis Report

**September 11, 2017**

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

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

**Laboratory Data**
- **SDG ID:** GBY97862
- **Phoenix ID:** BY97866

**Parameters**

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<tr>
<td>% 1,3-Dimethyl-2-nitrobenzene</td>
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<td>% benzo(a)pyrene-d12</td>
<td>107</td>
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<tr>
<td>% Triphenylphosphate</td>
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Rush Request: 72 Hour  
P.O.:

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Collected by: VT  
Received by: LB  
Analyzed by: see "By" below

Laboratory Data  
SDG ID: GBY97862  
Phoenix ID: BY97867

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**Semivolatile Organic**

Fluridone  
0.51  
0.29  
1  
ug/L  
09/11/17  
MH  
E525.3

**QA/QC Surrogates**

% 1,3-Dimethyl-2-nitrobenzene  
92  
1  
%  
NA  
NA  
NA  
09/11/17  
MH  
70 - 130 %

% benzo(a)pyrene-d12  
100  
1  
%  
NA  
NA  
NA  
09/11/17  
MH  
70 - 130 %

% Triphenylphosphate  
109  
1  
%  
NA  
NA  
NA  
09/11/17  
MH  
70 - 130 %
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</table>

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**Comments:**

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Phyllis Shiller, Laboratory Director  
September 11, 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: VT
Received by: LB
Analyzed by: see "By" below

Laboratory Data
Client ID: FW1-A

Analysis Report
September 11, 2017
FOR: Attn: Mr. Chris Doyle
Solitude Lake Management
310 East Washington Ave
Washington NJ 07882

SDG ID: GBY97862
Phoenix ID: BY97868

Parameter Result

<table>
<thead>
<tr>
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<th>Units</th>
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<th>MCL</th>
<th>MCLG</th>
<th>Date/Time</th>
<th>By</th>
<th>Reference</th>
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</thead>
<tbody>
<tr>
<td>Extraction for 525.3</td>
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<td></td>
<td>09/08/17</td>
<td>H/H</td>
<td>E525.3</td>
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<tr>
<td>Semivolatile Organic</td>
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<td></td>
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<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
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<tr>
<td>Fluoridone</td>
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<td>ug/L</td>
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<td>MH</td>
<td>70 - 130 %</td>
<td></td>
</tr>
<tr>
<td>% benzo(a)pyrene-d12</td>
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<td>%</td>
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<td>NA</td>
<td>NA</td>
<td>09/11/17</td>
<td>MH</td>
<td>70 - 130 %</td>
<td></td>
</tr>
<tr>
<td>% Triphenylphosphate</td>
<td>112</td>
<td>1</td>
<td>%</td>
<td>NA</td>
<td>NA</td>
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<td>09/11/17</td>
<td>MH</td>
<td>70 - 130 %</td>
<td></td>
</tr>
</tbody>
</table>
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Phyllis Shiller, Laboratory Director
September 11, 2017
Reviewed and Released by: Bobbi Aloisa, Vice President
Analysis Report
September 11, 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

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

Laboratory Data
- SDG ID: GBY97862
- Phoenix ID: BY97869

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</tr>
<tr>
<td>Fluridone</td>
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<td>0.29</td>
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<td>09/11/17</td>
<td>MH</td>
<td>E525.3</td>
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<tr>
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<td></td>
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<td></td>
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<td>MH</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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RL/PQL = Reporting/Practical Quantitation Level  DIL = Dilution (analysis required diluting to evaluate)  ND = Not Detected

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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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Phyllis Shiller, Laboratory Director
September 11, 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: VT
Received by: LB
Analyzed by: see "By" below

Laboratory Data

SDG ID: GBY97862
Phoenix ID: BY97870

Parameter Result

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<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>% 1,3-Dimethyl-2-nitrobenzene</td>
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<td>%</td>
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<td>70 - 130 %</td>
</tr>
<tr>
<td>% benzo(a)pyrene-d12</td>
<td>112</td>
<td>1</td>
<td>%</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
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<td>09/11/17</td>
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</tr>
<tr>
<td>% Triphenylphosphate</td>
<td>116</td>
<td>1</td>
<td>%</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td></td>
<td>09/11/17</td>
<td>MH</td>
<td>70 - 130 %</td>
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Analysis Report  
September 11, 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: VT
Received by: LB
Analyzed by: see "By" below

Laboratory Data
SDG ID: GBY97862  
Phoenix ID: BY97871

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

Fluridone  
0.53 0.29 1 ug/L  
09/11/17 MH E525.3

QA/QC Surrogates

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<th>Substance</th>
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<td>% 1,3-Dimethyl-2-nitrobenzene</td>
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<td>1</td>
<td>%</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
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<tr>
<td>% benzo(a)pyrene-d12</td>
<td>98</td>
<td>1</td>
<td>%</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>% Triphenylphosphate</td>
<td>104</td>
<td>1</td>
<td>%</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
</tbody>
</table>
### Comments:

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<th>AL</th>
<th>MCL</th>
<th>MCLG Date/Time</th>
<th>By</th>
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September 11, 2017  
Reviewed and Released by: Bobbi Aloisa, Vice President
Analysis Report
September 11, 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: VT
Received by: LB
Analyzed by: see "By" below

Date Time
09/08/17 11:56
09/08/17 15:11

Laboratory Data
SDG ID: GBY97862
Phoenix ID: BY97872

Project ID: CROTON RIVER
Client ID: HF-1

Parameter Result RL/ PQL DIL Units AL MCL MCLG Date/Time By Reference
Extraction for 525.3 Completed 09/08/17 H/H E525.3

Semivolatile Organic
Fluridone 0.49 0.29 1 ug/L 09/11/17 MH E525.3 1

QA/QC Surrogates
% 1,3-Dimethyl-2-nitrobenzene 90 1 % NA NA NA 09/11/17 MH 70 - 130 %
% benzo(a)pyrene-d12 85 1 % NA NA NA 09/11/17 MH 70 - 130 %
% Triphenylphosphate 106 1 % NA NA NA 09/11/17 MH 70 - 130 %
<table>
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<tr>
<th>Parameter</th>
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September 11, 2017

Reviewed and Released by: Bobbi Aloisa, Vice President
QA/QC Report
September 11, 2017

Semivolatile Organic Compounds - Drinking Water

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Blk 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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</tr>
<tr>
<td>Fluridone</td>
<td>ND 0.30</td>
<td>94</td>
<td>99</td>
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<td>70 - 130</td>
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<td>% 1,3-Dimethyl-2-nitrobenzene</td>
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<td>81</td>
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<td>85</td>
<td>95</td>
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<td>6.1</td>
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<tr>
<td>% Triphenylphosphate</td>
<td>98 %</td>
<td>87</td>
<td>103</td>
<td>109</td>
<td>5.7</td>
<td>70 - 130</td>
<td>20</td>
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</table>

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

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 11, 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 1.9°C.
(Note acceptance criteria is above freezing up to 6°C)
### NY/NJ CHAIN OF CUSTODY RECORD

**Customer:** Solitude Lake Management  
**Address:** 310 East Washington Ave, Suite C, Washington, NJ 07882

**Project:** Croton River  
**Report to:** Chris Doyle  
**Invoice to:** Krista Mi

**Sampler's Information - Identification**
- **Signature:** Victoria Thrill  
- **Date:** 9/18/17

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

**PHOENIX USE ONLY SAMPLE #**

| Sample Code | Matrix | Sample Date | Time |
|-------------|--------|-------------|------|-----|
| C7802       | DW1-A  | 9/18/17     | 0:45 | X   |
| C7803       | DW1-B  | 9/18/17     | 0:47 | X   |
| C7804       | DW3-A  |             | 0:53 | X   |
| C7805       | DW3-B  |             | 0:55 | X   |
| C7806       | DW4-A  |             | 1:04 | X   |
| C7807       | DW4-B  |             | 1:07 | X   |
| C7808       | FW1-A  |             | 0:43 | X   |
| C7809       | FW1-B  |             | 0:44 | X   |
| C7810       | UNH-1  |             | 1:20 | X   |
| C7811       | MB-1   |             | 1:13 | X   |
| C7812       | H-1    |             | 1:15 | X   |

**Analysis Request**
-心愿

**Fluridone**

**Relinquished by:** Victoria Thrill  
**Accepted by:** Claudine

**Date:** 9/18/17  
**Time:** 1:07  
**Turnaround:**
- 1 Day  
- 2 Days  
- 3 Days  
- 5 Days  
- 10 Days  
- Other

**Comments, Special Requirements or Regulations:**

**State where samples were collected:**