ANALYTICAL REPORT

Job Number: 420-116765-1
SDG Number: Sullivan West Elementary
Job Description: Sullivan County BOCES

For:
Sullivan County BOCES
6 Weirk Avenue
Liberty, NY 12754

Attention: Jesse Morrill

Meredith W Ruthven
Customer Service Manager
mruthven@envirotestlaboratories.com
02/20/2017

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EnviroTest Laboratories, Inc. Certifications and Approvals: NYSDOH 10142, NJDEP NY015, CTDOPH PH-0554
## Method Summary

**Client:** Sullivan County BOCES  
**Job Number:** 420-116765-1  
**SDG Number:** Sullivan West Elementary

### Description

<table>
<thead>
<tr>
<th>Matrix: Water</th>
</tr>
</thead>
</table>

#### Lab References:

EnvTest = EnviroTest

#### Method References:

EPA = US Environmental Protection Agency

<table>
<thead>
<tr>
<th>Description</th>
<th>Lab Location</th>
<th>Method</th>
<th>Preparation Method</th>
</tr>
</thead>
</table>
| ICPMS Metals by 200.8  
200 Series Drinking Water Prep Determination Step | EnvTest  
EnvTest | EPA 200.8 Rev.5.4  
EPA 200 |
<table>
<thead>
<tr>
<th>Method</th>
<th>Analyst</th>
<th>Analyst ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPA 200.8 Rev.5.4</td>
<td>Sirico, Derek</td>
<td>DS</td>
</tr>
</tbody>
</table>
# SAMPLE SUMMARY

Client:  Sullivan County BOCES

<table>
<thead>
<tr>
<th>Lab Sample ID</th>
<th>Client Sample ID</th>
<th>Client Matrix</th>
<th>Date/Time Sampled</th>
<th>Date/Time Received</th>
</tr>
</thead>
<tbody>
<tr>
<td>420-116765-1</td>
<td>253-S1(1st)</td>
<td>Drinking Water</td>
<td>02/07/2017 0800</td>
<td>02/10/2017 1540</td>
</tr>
<tr>
<td>420-116765-2</td>
<td>253-S1(2nd)</td>
<td>Drinking Water</td>
<td>02/07/2017 0800</td>
<td>02/10/2017 1540</td>
</tr>
<tr>
<td>420-116765-3</td>
<td>253-S2(1st)</td>
<td>Drinking Water</td>
<td>02/07/2017 0800</td>
<td>02/10/2017 1540</td>
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<tr>
<td>420-116765-4</td>
<td>253-S2(2nd)</td>
<td>Drinking Water</td>
<td>02/07/2017 0800</td>
<td>02/10/2017 1540</td>
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<tr>
<td>420-116765-5</td>
<td>252-S2(1st)</td>
<td>Drinking Water</td>
<td>02/07/2017 0800</td>
<td>02/10/2017 1540</td>
</tr>
<tr>
<td>420-116765-6</td>
<td>252-S2(2nd)</td>
<td>Drinking Water</td>
<td>02/07/2017 0800</td>
<td>02/10/2017 1540</td>
</tr>
</tbody>
</table>
Client Sample ID: 253-S1(1st)  
Lab Sample ID: 420-116765-1

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Result/Qualifier</th>
<th>Unit</th>
<th>RL</th>
<th>RL</th>
<th>Dilution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pb</td>
<td>11.2</td>
<td>ug/L</td>
<td>1.00</td>
<td>1.00</td>
<td>1.0</td>
</tr>
</tbody>
</table>

Method: 200.8 Rev.5.4  
Prep Method: 200  
Date Sampled: 02/07/2017 0800  
Date Received: 02/10/2017 1540  
Client Matrix: Drinking Water  

Date Analyzed: 02/13/2017 1641  
Date Prepared: 02/13/2017 1120
Client Sample ID: 253-S1(2nd)  
Lab Sample ID: 420-116765-2

<table>
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<th>Analyte</th>
<th>Result/Qualifier</th>
<th>Unit</th>
<th>RL</th>
<th>RL</th>
<th>Dilution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pb</td>
<td>1.07 ug/L</td>
<td>1.00</td>
<td>1.00</td>
<td>1.0</td>
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Method: 200.8 Rev.5.4
Prep Method: 200

Date Analyzed: 02/13/2017 1642
Date Prepared: 02/13/2017 1145
<table>
<thead>
<tr>
<th>Analyte</th>
<th>Result/Qualifier</th>
<th>Unit</th>
<th>RL</th>
<th>RL</th>
<th>Dilution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pb</td>
<td>20.4 g</td>
<td>ug/L</td>
<td>1.00</td>
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Client Sample ID: 253-S2(1st)
Lab Sample ID: 420-116765-3

Date Sampled: 02/07/2017 0800
Date Received: 02/10/2017 1540
Client Matrix: Drinking Water

Method: 200.8 Rev.5.4
Prep Method: 200

Date Analyzed: 02/13/2017 1647
Date Prepared: 02/13/2017 1145
Client Sample ID: 253-S2(2nd)  
Lab Sample ID: 420-116765-4

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Result/Qualifier</th>
<th>Unit</th>
<th>RL</th>
<th>RL</th>
<th>Dilution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pb</td>
<td>1.66</td>
<td>ug/L</td>
<td>1.00</td>
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Method: 200.8 Rev.5.4  
Prep Method: 200  
Date Analyzed: 02/13/2017 1647  
Date Prepared: 02/13/2017 1145  
Date Received: 02/10/2017 1540  
Date Sampled: 02/07/2017 0800  
Client Matrix: Drinking Water
## Analyte Results

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Result/Qualifier</th>
<th>Unit</th>
<th>RL</th>
<th>RL</th>
<th>Dilution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pb</td>
<td>16.5</td>
<td>g</td>
<td>1.00</td>
<td>1.00</td>
<td>1.0</td>
</tr>
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</table>

**Method:** 200.8 Rev.5.4  
**Prep Method:** 200  
**Date Analyzed:** 02/13/2017 1648  
**Date Prepared:** 02/13/2017 1145  
**Client Matrix:** Drinking Water
Client Sample ID: 252-S2(2nd)  
Lab Sample ID: 420-116765-6

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Result/Qualifier</th>
<th>Unit</th>
<th>RL</th>
<th>RL</th>
<th>Dilution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pb</td>
<td>1.20</td>
<td>ug/L</td>
<td>1.00</td>
<td>1.00</td>
<td>1.0</td>
</tr>
</tbody>
</table>

Method: 200.8 Rev.5.4  
Date Analyzed: 02/13/2017  1649
Prep Method: 200  
Date Prepared: 02/13/2017  1145
### DATA REPORTING QUALIFIERS

<table>
<thead>
<tr>
<th>Lab Section</th>
<th>Qualifier</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metals</td>
<td>g</td>
<td>Result fails applicable NYS drinking water standards</td>
</tr>
</tbody>
</table>
The following analytes are Not Part of the ELAP scope of accreditation:

Sulfur, Tungsten, Silicon, Bicarbonate Alkalinity, 7 Day BOD 5210C, 28 Day BOD, Soluble BOD, Carbon Dioxide, Carbonate Alkalinity, CBOD Soluble, Chlorine, Cyanide (WAD), Ferrous Iron, Ferric Iron, Total Nitrogen, Total Organic Nitrogen, Dissolved Oxygen, pH, Phenolphthalein Alkalinity, Solids (Fixed), Solids (Percent), Solids (Percent Moisture), Solids (Percent Volatile), Solids (Volatile Suspended), Temperature, TKN (Soluble), COD (Soluble), Total Inorganic Carbon, Volatile Acids as Acetic Acid, 2-Aminopyridine, 3-Picoline, 1-Methyl-2-pyrrolidinone, Aziridine, Dimethyl sulfoxide, 1-Chlorohexane, Iron Bacteria, Salmonella, & Sulfur Reducing Bacteria.

The following analytes are Not Part of ELAP Potable Water scope of accreditation:

Cobalt (200.7, 200.8), Tin (200.7), Strontium (200.7), Gold (200.7), Platinum (200.7), Palladium (200.7), Titanium (200.7), Phosphorus (365.3), Nitrate-Nitrite (10-107-4-1C, 353.2), m-Xylene & p-Xylene (502.2, 524), Naphthalene (502.2), o-Xylene (502.2, 524), & Fecal Coliform (9222D).

The following analytes are Not Part of ELAP Solid and Hazardous Waste scope of accreditation:

Ammonia (SM 4500NH3G), TKN (351.2), Phosphorus (365.3), 1,2-Dichloro-1,1,2-trifluoroethane (8260), & Chlorodifluoromethane (8260).

The following analytes are Not Part of ELAP Non Potable Water scope of accreditation:

Dissolved Organic Carbon (5310C), Mecoprop (8151A), & MCPA (8151A).
### Definitions and Glossary

**Abbreviation** | These commonly used abbreviations may or may not be present in this report.
---|---
%R | Percent Recovery
DL, RA, RE | Indicates a Dilution, Reanalysis or Reextraction.
EPA | United States Environmental Protection Agency
MDL | Method Detection Limit - an estimate of the minimum amount of a substance that an analytical process can reliably detect. A MDL is analyte- and matrix-specific and may be laboratory-dependent.
ND | Not detected at the reporting limit (or MDL if shown).
QC | Quality Control
RL | Reporting Limit - the minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.
RPD | Relative Percent Difference - a measure of the relative difference between two points.
<table>
<thead>
<tr>
<th>Sample #</th>
<th>Date</th>
<th>Time</th>
<th>Matrix</th>
<th>Client ID</th>
<th>250 ml HNO3</th>
<th>Analysis Requested</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 253-S1(1&lt;sup&gt;st&lt;/sup&gt;)</td>
<td>2/7/17</td>
<td>8AM</td>
<td>SWCS</td>
<td></td>
<td></td>
<td>LEAD</td>
</tr>
<tr>
<td>2 253-S1(2&lt;sup&gt;nd&lt;/sup&gt;)</td>
<td>2/7/17</td>
<td></td>
<td>SWCS</td>
<td></td>
<td></td>
<td>LEAD</td>
</tr>
<tr>
<td>3 253-S2(1&lt;sup&gt;st&lt;/sup&gt;)</td>
<td>2/7/17</td>
<td></td>
<td>SWCS</td>
<td></td>
<td></td>
<td>LEAD</td>
</tr>
<tr>
<td>4 253-S2(2&lt;sup&gt;nd&lt;/sup&gt;)</td>
<td>2/7/17</td>
<td></td>
<td>SWCS</td>
<td></td>
<td></td>
<td>LEAD</td>
</tr>
<tr>
<td>5 252-S2(1&lt;sup&gt;st&lt;/sup&gt;)</td>
<td>2/7/17</td>
<td></td>
<td>SWCS</td>
<td></td>
<td></td>
<td>LEAD</td>
</tr>
<tr>
<td>6 252-S2(2&lt;sup&gt;nd&lt;/sup&gt;)</td>
<td>2/7/17</td>
<td></td>
<td>SWCS</td>
<td></td>
<td></td>
<td>LEAD</td>
</tr>
</tbody>
</table>
**LOGIN SAMPLE RECEIPT CHECK LIST**

Client: Sullivan County BOCES  
Job Number: 420-116765-1  
SDG Number: Sullivan West Elementary

Login Number: 116765

<table>
<thead>
<tr>
<th>Question</th>
<th>T/F/NA</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Samples were collected by ETL employee as per SOP-SAM-1</td>
<td>NA</td>
<td></td>
</tr>
<tr>
<td>The cooler's custody seal, if present, is intact.</td>
<td>NA</td>
<td></td>
</tr>
<tr>
<td>The cooler or samples do not appear to have been compromised or tampered with.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Samples were received on ice.</td>
<td>False</td>
<td></td>
</tr>
<tr>
<td>Cooler Temperature is recorded.</td>
<td>True</td>
<td>16.8 C</td>
</tr>
<tr>
<td>Cooler Temp. is within method specified range.(0-6 C PW, 0-8 C NPW, or BAC &lt;10 C)</td>
<td>False</td>
<td></td>
</tr>
<tr>
<td>If false, was sample received on ice within 6 hours of collection.</td>
<td>False</td>
<td></td>
</tr>
<tr>
<td>Based on above criteria cooler temperature is acceptable.</td>
<td>True</td>
<td>Method does not require cooling</td>
</tr>
<tr>
<td>COC is present.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>COC is filled out in ink and legible.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>COC is filled out with all pertinent information.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>There are no discrepancies between the sample IDs on the containers and the COC.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Samples are received within Holding Time.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Sample containers have legible labels.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Containers are not broken or leaking.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Sample collection date/times are provided.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Appropriate sample containers are used.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Sample bottles are completely filled.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>VOA sample vials do not have headspace or bubble is &lt;6mm (1/4&quot;) in diameter.</td>
<td>NA</td>
<td></td>
</tr>
<tr>
<td>If necessary, staff have been informed of any short hold time or quick TAT needs</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Multiphasic samples are not present.</td>
<td>True</td>
<td></td>
</tr>
<tr>
<td>Samples do not require splitting or compositing.</td>
<td>True</td>
<td></td>
</tr>
</tbody>
</table>