

## **ANALYTICAL REPORT**

Job Number: 420-111060-1

SDG Number: SCBOCES

Job Description: Sullivan County BOCES

For:

Sullivan County BOCES

6 Weirk Avenue

Liberty, NY 12754

Attention: Jesse Morrill



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Meredith W Ruthven

Customer Service Manager

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11/07/2016

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EnviroTest Laboratories, Inc. Certifications and Approvals: NYSDOH 10142, NJDEP NY015, CTDOH PH-0554

## METHOD SUMMARY

Client: Sullivan County BOCES

Job Number: 420-111060-1

SDG Number: SCBOCES

<b>Description</b>	<b>Lab Location</b>	<b>Method</b>	<b>Preparation Method</b>
<b>Matrix: Water</b>			
ICPMS Metals by 200.8	EnvTest	EPA 200.8 Rev.5.4	
200 Series Drinking Water Prep Determination Step	EnvTest		EPA 200

### Lab References:

EnvTest = EnviroTest

### Method References:

EPA = US Environmental Protection Agency

**METHOD / ANALYST SUMMARY**

Client: Sullivan County BOCES

Job Number: 420-111060-1

SDG Number: SCBOCES

<b>Method</b>	<b>Analyst</b>	<b>Analyst ID</b>
EPA 200.8 Rev.5.4	Palentino, Gus J	GJP
EPA 200.8 Rev.5.4	Sirico, Derek	DS

## SAMPLE SUMMARY

Client: Sullivan County BOCES

Job Number: 420-111060-1

SDG Number: SCBOCES

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Client Matrix</b>	<b>Date/Time Sampled</b>	<b>Date/Time Received</b>
420-111060-1	RPEC - LOB-F1	Drinking Water	09/29/2016 0700	09/29/2016 1535
420-111060-2	RPEC - LOB-F2	Drinking Water	09/29/2016 0700	09/29/2016 1535
420-111060-3	RPEC - HB-1	Drinking Water	09/29/2016 0700	09/29/2016 1535
420-111060-4	RPEC - HB-2	Drinking Water	09/29/2016 0700	09/29/2016 1535
420-111060-5	RPEC - HB-3	Drinking Water	09/29/2016 0700	09/29/2016 1535
420-111060-6	WSS - WWS-HB	Drinking Water	09/29/2016 0700	09/29/2016 1535
420-111060-7	AG/MECH - HB-1	Drinking Water	09/29/2016 0700	09/29/2016 1535
420-111060-8	AG/MECH - HB-2	Drinking Water	09/29/2016 0700	09/29/2016 1535
420-111060-9	ALT ED - HB-1	Drinking Water	09/29/2016 0700	09/29/2016 1535
420-111060-10	ALT ED - HB-2	Drinking Water	09/29/2016 0700	09/29/2016 1535
420-111060-11	ADMIN- HB-1	Drinking Water	09/29/2016 0700	09/29/2016 1535
420-111060-12	ADMIN - HB-2	Drinking Water	09/29/2016 0700	09/29/2016 1535

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**Client Sample ID:** RPEC - LOB-F1  
**Lab Sample ID:** 420-111060-1

Date Sampled: 09/29/2016 0700  
Date Received: 09/29/2016 1535  
Client Matrix: Drinking Water

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 200.8 Rev.5.4			Date Analyzed: 10/27/2016 1436		
Prep Method: 200			Date Prepared: 10/27/2016 0900		
Pb	1.00 U	ug/L	1.00	1.00	1.0

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**Client Sample ID:** RPEC - LOB-F2  
**Lab Sample ID:** 420-111060-2

Date Sampled: 09/29/2016 0700  
Date Received: 09/29/2016 1535  
Client Matrix: Drinking Water

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 200.8 Rev.5.4			Date Analyzed: 10/27/2016 1437		
Prep Method: 200			Date Prepared: 10/27/2016 0900		
Pb	1.00 U	ug/L	1.00	1.00	1.0

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**Client Sample ID:** RPEC - HB-1  
**Lab Sample ID:** 420-111060-3

Date Sampled: 09/29/2016 0700  
Date Received: 09/29/2016 1535  
Client Matrix: Drinking Water

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 200.8 Rev.5.4			Date Analyzed: 10/27/2016 1440		
Prep Method: 200			Date Prepared: 10/27/2016 0900		
Pb	1.98	ug/L	1.00	1.00	1.0

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**Client Sample ID:** RPEC - HB-2  
**Lab Sample ID:** 420-111060-4

Date Sampled: 09/29/2016 0700  
Date Received: 09/29/2016 1535  
Client Matrix: Drinking Water

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 200.8 Rev.5.4			Date Analyzed:	11/01/2016 1157	
Prep Method: 200			Date Prepared:	10/27/2016 1400	
Pb	1600 g	ug/L	1.00	1.00	1.0



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**Client Sample ID:** RPEC - HB-3  
**Lab Sample ID:** 420-111060-5

Date Sampled: 09/29/2016 0700  
Date Received: 09/29/2016 1535  
Client Matrix: Drinking Water

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 200.8 Rev.5.4			Date Analyzed:	11/01/2016 1202	
Prep Method: 200			Date Prepared:	10/27/2016 1400	
Pb	166 g	ug/L	1.00	1.00	1.0

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**Client Sample ID:** WSS - WWS-HB  
**Lab Sample ID:** 420-111060-6

Date Sampled: 09/29/2016 0700  
Date Received: 09/29/2016 1535  
Client Matrix: Drinking Water

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 200.8 Rev.5.4			Date Analyzed: 11/02/2016 1227		
Prep Method: 200			Date Prepared: 10/27/2016 0900		
Pb	15.8 g	ug/L	1.00	1.00	1.0

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Job Number: 420-111060-1  
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**Client Sample ID:** AG/MECH - HB-1  
**Lab Sample ID:** 420-111060-7

Date Sampled: 09/29/2016 0700  
Date Received: 09/29/2016 1535  
Client Matrix: Drinking Water

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 200.8 Rev.5.4			Date Analyzed: 10/27/2016 1441		
Prep Method: 200			Date Prepared: 10/27/2016 0900		
Pb	11.1	ug/L	1.00	1.00	1.0

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**Client Sample ID:** AG/MECH - HB-2  
**Lab Sample ID:** 420-111060-8

Date Sampled: 09/29/2016 0700  
Date Received: 09/29/2016 1535  
Client Matrix: Drinking Water

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 200.8 Rev.5.4			Date Analyzed: 10/27/2016 1442		
Prep Method: 200			Date Prepared: 10/27/2016 0900		
Pb	1.07	ug/L	1.00	1.00	1.0

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Job Number: 420-111060-1  
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**Client Sample ID:** ALT ED - HB-1  
**Lab Sample ID:** 420-111060-9

Date Sampled: 09/29/2016 0700  
Date Received: 09/29/2016 1535  
Client Matrix: Drinking Water

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 200.8 Rev.5.4			Date Analyzed: 10/27/2016 1443		
Prep Method: 200			Date Prepared: 10/27/2016 0900		
Pb	35.8 g	ug/L	1.00	1.00	1.0

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**Client Sample ID:** ALT ED - HB-2  
**Lab Sample ID:** 420-111060-10

Date Sampled: 09/29/2016 0700  
Date Received: 09/29/2016 1535  
Client Matrix: Drinking Water

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 200.8 Rev.5.4			Date Analyzed: 10/27/2016 1444		
Prep Method: 200			Date Prepared: 10/27/2016 0900		
Pb	180 g	ug/L	1.00	1.00	1.0

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Job Number: 420-111060-1  
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**Client Sample ID:** ADMIN- HB-1  
**Lab Sample ID:** 420-111060-11

Date Sampled: 09/29/2016 0700  
Date Received: 09/29/2016 1535  
Client Matrix: Drinking Water

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 200.8 Rev.5.4			Date Analyzed:	10/27/2016 1444	
Prep Method: 200			Date Prepared:	10/27/2016 0900	
Pb	96.3 g	ug/L	1.00	1.00	1.0

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Job Number: 420-111060-1  
Sdg Number: SCBOCES

**Client Sample ID:** ADMIN - HB-2  
**Lab Sample ID:** 420-111060-12

Date Sampled: 09/29/2016 0700  
Date Received: 09/29/2016 1535  
Client Matrix: Drinking Water

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 200.8 Rev.5.4			Date Analyzed:	10/27/2016 1445	
Prep Method: 200			Date Prepared:	10/27/2016 0900	
Pb	923 g	ug/L	1.00	1.00	1.0



## DATA REPORTING QUALIFIERS

Client: Sullivan County BOCES

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<b>Lab Section</b>	<b>Qualifier</b>	<b>Description</b>
Metals	g	Result fails applicable NYS drinking water standards
	U	The analyte was analyzed for but not detected at or above the lowest stated limit.

## Certification Information

Client: Sullivan County BOCES

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Sdg Number: SCBOCES

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**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), Total Inorganic Carbon, Volatile Acids as Acetic Acid, 2-Aminopyridine, 3-Picoline, 1-Methyl-2-pyrrilidinone, 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

Client: Sullivan County BOCES

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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.



## LOGIN SAMPLE RECEIPT CHECK LIST

Client: Sullivan County BOCES

Job Number: 420-111060-1

SDG Number: SCBOCES

**Login Number: 111060**

Question	T/F/NA	Comment
Samples were collected by ETL employee as per SOP-SAM-1	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	
Cooler Temperature is recorded.	True	21.9 C
Cooler Temp. is within method specified range.(0-6 C PW, 0-8 C NPW, or BAC <10 C	False	
If false, was sample received on ice within 6 hours of collection.	False	
Based on above criteria cooler temperature is acceptable.	True	Method does not require cooling
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	NA	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	