

## ANALYTICAL REPORT

Job Number: 420-196949-1

SDG Number: Regional Education Center at Arden Hill

Job Description: Orange-Ulster BOCES

For:  
Orange-Ulster BOCES  
53 Gibson Road  
Goshen, NY 10924

Attention: Jack DeGraw



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Designee for  
Meredith W Ruthven  
Customer Service Manager  
mruthven@envirotestlaboratories.com  
07/12/2021

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

## METHOD SUMMARY

Client: Orange-Ulster BOCES

Job Number: 420-196949-1  
SDG Number: Regional Education Center at Arden Hill

<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 200.7/200.8

### Lab References:

EnvTest = EnviroTest

### Method References:

EPA = US Environmental Protection Agency

## METHOD / ANALYST SUMMARY

Client: Orange-Ulster BOCES

Job Number: 420-196949-1  
SDG Number: Regional Education Center at Arden Hill

<b>Method</b>	<b>Analyst</b>	<b>Analyst ID</b>
EPA 200.8 Rev.5.4	Luis, Carlos	CL

## SAMPLE SUMMARY

Client: Orange-Ulster BOCES

Job Number: 420-196949-1  
SDG Number: Regional Education Center at Arden Hill

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Client Matrix</b>	<b>Date/Time Sampled</b>	<b>Date/Time Received</b>
420-196949-1	Kitchen back wall HS #1	Drinking Water	04/22/2021 0600	05/07/2021 1253
420-196949-2	Kitchen back wall HS #2	Drinking Water	04/22/2021 0600	05/07/2021 1253
420-196949-3	Kitchen Dishwash sink #1	Drinking Water	04/22/2021 0600	05/07/2021 1253
420-196949-4	Kitchen Dishwash sink #2	Drinking Water	04/22/2021 0600	05/07/2021 1253
420-196949-5	Kitchen HS Front by dishwashing	Drinking Water	04/22/2021 0600	05/07/2021 1253
420-196949-6	115B Ice Machine	Drinking Water	04/22/2021 0615	05/07/2021 1253
420-196949-7	115B prep	Drinking Water	04/22/2021 0615	05/07/2021 1253
420-196949-8	115B HS	Drinking Water	04/22/2021 0615	05/07/2021 1253
420-196949-9	141 Conference KS	Drinking Water	04/22/2021 0621	05/07/2021 1253

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**Client Sample ID:** Kitchen back wall HS #1  
**Lab Sample ID:** 420-196949-1

Date Sampled: 04/22/2021 0600  
Date Received: 05/07/2021 1253  
Client Matrix: Drinking Water

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 200.8 Rev.5.4			Date Analyzed:	07/11/2021 0513	
Prep Method: 200.7/200.8			Date Prepared:	07/10/2021 1424	
Pb	4.14	ug/L	1.00	1.00	1.0

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**Client Sample ID:** Kitchen back wall HS #2  
**Lab Sample ID:** 420-196949-2

Date Sampled: 04/22/2021 0600  
Date Received: 05/07/2021 1253  
Client Matrix: Drinking Water

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 200.8 Rev.5.4			Date Analyzed: 07/11/2021	0526	
Prep Method: 200.7/200.8			Date Prepared: 07/10/2021	1424	
Pb	2.31	ug/L	1.00	1.00	1.0

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Job Number: 420-196949-1  
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**Client Sample ID:** Kitchen Dishwash sink #1  
**Lab Sample ID:** 420-196949-3

Date Sampled: 04/22/2021 0600  
Date Received: 05/07/2021 1253  
Client Matrix: Drinking Water

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 200.8 Rev.5.4			Date Analyzed: 07/11/2021 0529		
Prep Method: 200.7/200.8			Date Prepared: 07/10/2021 1424		
Pb	1.00 U	ug/L	1.00	1.00	1.0

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Job Number: 420-196949-1  
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**Client Sample ID:** Kitchen Dishwash sink #2  
**Lab Sample ID:** 420-196949-4

Date Sampled: 04/22/2021 0600  
Date Received: 05/07/2021 1253  
Client Matrix: Drinking Water

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 200.8 Rev.5.4			Date Analyzed:	07/11/2021 0531	
Prep Method: 200.7/200.8			Date Prepared:	07/10/2021 1424	
Pb	1.00 U	ug/L	1.00	1.00	1.0



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**Client Sample ID:** Kitchen HS Front by dishwashing  
**Lab Sample ID:** 420-196949-5

Date Sampled: 04/22/2021 0600  
Date Received: 05/07/2021 1253  
Client Matrix: Drinking Water

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 200.8 Rev.5.4			Date Analyzed: 07/11/2021 0533		
Prep Method: 200.7/200.8			Date Prepared: 07/10/2021 1424		
Pb	4.99	ug/L	1.00	1.00	1.0

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Job Number: 420-196949-1  
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**Client Sample ID:** 115B Ice Machine  
**Lab Sample ID:** 420-196949-6

Date Sampled: 04/22/2021 0615  
Date Received: 05/07/2021 1253  
Client Matrix: Drinking Water

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 200.8 Rev.5.4			Date Analyzed: 07/11/2021 0535		
Prep Method: 200.7/200.8			Date Prepared: 07/10/2021 1424		
Pb	1.00 U	ug/L	1.00	1.00	1.0

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Job Number: 420-196949-1  
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**Client Sample ID:** 115B prep  
**Lab Sample ID:** 420-196949-7

Date Sampled: 04/22/2021 0615  
Date Received: 05/07/2021 1253  
Client Matrix: Drinking Water

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 200.8 Rev.5.4			Date Analyzed:	07/11/2021 0537	
Prep Method: 200.7/200.8			Date Prepared:	07/10/2021 1424	
Pb	1.00 U	ug/L	1.00	1.00	1.0

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Job Number: 420-196949-1  
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**Client Sample ID:** 115B HS  
**Lab Sample ID:** 420-196949-8

Date Sampled: 04/22/2021 0615  
Date Received: 05/07/2021 1253  
Client Matrix: Drinking Water

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 200.8 Rev.5.4			Date Analyzed:	07/11/2021 0539	
Prep Method: 200.7/200.8			Date Prepared:	07/10/2021 1424	
Pb	1.20	ug/L	1.00	1.00	1.0

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Job Number: 420-196949-1  
Sdg Number: Regional Education Center at Arden Hill

**Client Sample ID:** 141 Conference KS  
**Lab Sample ID:** 420-196949-9

Date Sampled: 04/22/2021 0621  
Date Received: 05/07/2021 1253  
Client Matrix: Drinking Water

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 200.8 Rev.5.4			Date Analyzed: 07/11/2021 0542		
Prep Method: 200.7/200.8			Date Prepared: 07/10/2021 1424		
Pb	1.00 U	ug/L	1.00	1.00	1.0

## DATA REPORTING QUALIFIERS

Client: Orange-Ulster BOCES

Job Number:  
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<b>Lab Section</b>	<b>Qualifier</b>	<b>Description</b>
Metals	U	The analyte was analyzed for but not detected at or above the lowest stated limit.

## Certification Information

Client: Orange-Ulster BOCES

Job Number:

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### **The following analytes are Not Part of the ELAP scope of accreditation:**

Sulfur, Tungsten, 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, Solids (Fixed), Solids (Percent), Solids (Percent Moisture), Solids (Percent Volatile), Solids (Volatile Suspended), Temperature, TKN (Soluble), COD (Soluble), Total Inorganic Carbon, 2-Aminopyridine, 3-Picoline, 1-Methyl-2-pyrrilidinone, Aziridine, Dimethyl sulfoxide, 1-Chlorohexane, 1,2,4,5-Tetramethylbenzene, 4-Ethyl toluene, p-Diethylbenzene, Iron Bacteria, Salmonella, Sulfur Reducing Bacteria, & UOD (Ultimate Oxygen Demand).

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

Ammonia (SM 4500NH3G), Biochemical Oxygen Demand (SM 5210B), Chemical Oxygen Demand (EPA 410.4), Dissolved Oxygen (SM 4500 O C), TKN (351.2), Phosphorus (365.3), Nitrate-Nitrite (353.2), Settable Solids (SM 2540F), Total Suspended Solids (SM 2540 C), m-Xylene & p-Xylene (502.2, 524), o-Xylene (502.2, 524), Sulfide (SM4500SD), Acenaphthene (525.2), Acenaphthylene (525.2), Fluoranthene (525.2), Fluorene (525.2), Phenanthrene (525.2), Anthracene (525.2), Pyrene (525.2), Benzo[a]anthracene (525.2), Benzo[b]fluoranthene (525.2), Benzo[g,h,i]perylene (525.2), Benzo[k]fluoranthene (525.2), Indeno[1,2,3-cd]pyrene (525.2), & Dibenz(a,h)anthracene (525.2). Pyridine

### **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: Orange-Ulster BOCES

Job Number:


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<u>Abbreviation</u>	<u>These commonly used abbreviations may or may not be present in this report.</u>
%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



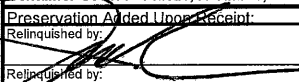
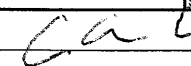
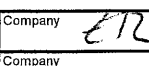
<b>Client Information</b>		Sampler: Joseph Russo	Lab PM:	Deliverable Type: Level I, Level II, NYS ASP Cat B EDD (Specify):	JOB #:  196949
Client Contact: Joseph Russo		Phone: 845-781-4887	E-Mail: joseph.russo@ouboces.org Halina.redner@ouboces.org Maureen.doherty@ouboces.org		

Company: Orange-Ulster BOCES		Analysis Requested			Page: Page 1 of 1
Address: 53 Gibson Road		Due Date Requested: Standard Turn-Around	 420-196949-B-1 Kitchen back wall HS #1 Date Sampled: 4/22/2021      420-1686233		
City: Goshen		TAT Requested (days):			
State, Zip: NY, 10924		PO #:			
Phone: 845-781-4887		PWS #:			
Email: joseph.russo@ouboces.org      Halina.redner@ouboces.org Maureen.doherty@ouboces.org		Project #:			Preservation Codes: A - HCL                      L- EDA B - NaOH                    M - Sodium Sulfite C - Zn Acetate              N - None D - Nitric Acid              O - MCAA E - H2SO4                    P - Other (specify) F - MeOH G - NH4CL H - Ascorbic Acid I - Ice J - DI Water K - Sodium Thiosulfate
Project Name: Orange-Ulster BOCES - Regional Education Center at Arden Hill		Additional Contacts:			
Site: Terrence L. Olivo					Other: <b>D-Nitric Acid</b>

Sample Date	Sample Time	Sample Identification	Client ID (Lab ID)	Sample Type (C=comp, S=solid, G=grab)	Matrix (DW=drinking water, W=water, S=solid, O=waste/oil)	Field Filtered/Sealed	Perform MS/MSD	Chlorine Present	Lead	Total Number of Containers	Special Instructions/Note:
4/22/21	6:00	Kitchen back wall HS #1		G	DW				1	1	
4/22/21	6:00	Kitchen back wall HS #2		G	DW				1	1	
4/22/21	6:00	Kitchen Dishwash sink #1		G	DW				1	1	
4/22/21	6:00	Kitchen Dishwash sink #2		G	DW				1	1	
4/22/21	6:00	Kitchen HS Front by Dishwashing		G	DW				1	1	
4/22/21	6:15	115B Ice Machine		G	DW				1	1	
4/22/21	6:15	115B prep		G	DW				1	1	
4/22/21	6:15	115 B HS		G	DW				1	1	
4/22/21	6:21	141 Conference KS		G	DW				1	1	

Container Code: P=Plastic, A=Amber, V=Vial, G=Glass, B=Bacteria, C=Cube, O=Other, T=Terracore, D=BOD Bottle      P

Preservation Added Upon Receipt: \_\_\_\_\_

Relinquished by: 	Manufacturer/I of #:	Date: 5/17/21 12:53	Time:	Sample # (s):
Relinquished by: _____	Company: OUBOCES	Received by: 	Date/Time: 5/17/21 12:53	Company: 
Relinquished by: _____	Company: _____	Received by: _____	Date/Time: _____	Company: _____

ICE Present:  Custody Seal No.: \_\_\_\_\_ Custody Seals Intact:  Cooler Temperature(s) °C/IR GUN #: 21.7°C

## LOGIN SAMPLE RECEIPT CHECK LIST

Client: Orange-Ulster BOCES

Job Number: 420-196949-1

SDG Number: Regional Education Center at Arden Hill

**Login Number: 196949**

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	21.7 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	

SAMPLE DELIVERY GROUP	CLIENT SAMPLE ID	RESULT	DATE SAMPLED	TIME COLLECTED
Regional Education Center at Arden Hill	Kitchen back wall HS #1	4.14	04/22/2021	06:00
Regional Education Center at Arden Hill	Kitchen back wall HS #2	2.31	04/22/2021	06:00
Regional Education Center at Arden Hill	Kitchen Dishwash sink #1	ND<1.00	04/22/2021	06:00
Regional Education Center at Arden Hill	Kitchen Dishwash sink #2	ND<1.00	04/22/2021	06:00
Regional Education Center at Arden Hill	Kitchen HS Front by dishwashing	4.99	04/22/2021	06:00
Regional Education Center at Arden Hill	115B Ice Machine	ND<1.00	04/22/2021	06:15
Regional Education Center at Arden Hill	115B prep	ND<1.00	04/22/2021	06:15
Regional Education Center at Arden Hill	115B HS	1.20	04/22/2021	06:15
Regional Education Center at Arden Hill	141 Conference KS	ND<1.00	04/22/2021	06:21