



Wednesday, July 17, 2019 Robyn Stolin Hope Charter School 3500 SW 104th Ave Beaverton, OR 97005

RE: A9G0084 - Drinking Water - Lead Drinking Water

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A9G0084, which was received by the laboratory on 7/3/2019 at 8:40:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: ldomenighini@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of final reporting, unless prior arrangements have been made.

Cooler Receipt Information

(See Cooler Receipt Form for details)

Cooler #1 20.9 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.





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Hope Charter SchoolProject:Drinking Water3500 SW 104th AveProject Number:Lead Drinking WaterBeaverton, OR 97005Project Manager:Robyn Stolin

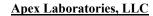
Report ID: A9G0084 - 07 17 19 1000

ANALYTICAL REPORT FOR SAMPLES

	SAMPLE INFORMA	ATION		
Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
014s	A9G0084-01	Drinking Water	07/03/19 00:00	07/03/19 08:40
015df	A9G0084-02	Drinking Water	07/03/19 00:00	07/03/19 08:40
016s	A9G0084-03	Drinking Water	07/03/19 00:00	07/03/19 08:40
017s	A9G0084-04	Drinking Water	07/03/19 00:00	07/03/19 08:40
018s	A9G0084-05	Drinking Water	07/03/19 00:00	07/03/19 08:40
019s	A9G0084-06	Drinking Water	07/03/19 00:00	07/03/19 08:40

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Report ID: A9G0084 - 07 17 19 1000

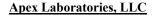
ANALYTICAL SAMPLE RESULTS

	Total I	Metals in Dri	nking Water b	y EPA 200.	8 (ICPMS)			
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
014s (A9G0084-01)				Matrix: D	rinking Wate	er		
Batch: 9070687								
Lead	4.09		0.200	ug/L	1	07/08/19 16:49	EPA 200.8	
015df (A9G0084-02)				Matrix: Di	rinking Wate	er		
Batch: 9070683								
Lead	2.05		0.200	ug/L	1	07/08/19 16:01	EPA 200.8	DW-D
016s (A9G0084-03)				Matrix: Di	rinking Wate	er		
Batch: 9070687								
Lead	1.90		0.200	ug/L	1	07/08/19 16:54	EPA 200.8	
017s (A9G0084-04)				Matrix: Di	rinking Wate	er		
Batch: 9070683								
Lead	5.80		0.200	ug/L	1	07/08/19 16:06	EPA 200.8	DW-D
018s (A9G0084-05)				Matrix: Di	rinking Wate	er		
Batch: 9070687								
Lead	0.485		0.200	ug/L	1	07/08/19 16:58	EPA 200.8	
019s (A9G0084-06)				Matrix: Di	rinking Wate	er		
Batch: 9070687								
Lead	3.79		0.200	ug/L	1	07/08/19 17:04	EPA 200.8	

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Hope Charter School 3500 SW 104th Ave Beaverton, OR 97005 Project: Drinking Water
Project Number: Lead Drinking Water
Project Manager: Robyn Stolin

Report ID: A9G0084 - 07 17 19 1000

QUALITY CONTROL (QC) SAMPLE RESULTS

		Tota	l Metals in	Drinking	Water by	EPA 200.	8 (ICPMS	5)				
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 9070683 - EPA 3015A							Drin	ıking Wate	r			
Blank (9070683-BLK1)		Prepared	: 07/08/19 09:	11 Analyz	zed: 07/08/19	9 15:53						
EPA 200.8												
Lead	ND		0.200	ug/L	1							
LCS (9070683-BS1)		Prepared	: 07/08/19 09:	11 Analyz	zed: 07/08/19	9 15:57						
EPA 200.8												
Lead	16.8		0.200	ug/L	1	16.7		101 8	35 - 115%			
Batch 9070687 - Matrix Matche	d Direct I	nject					Drin	ıking Wate	r			
Blank (9070687-BLK1)		Prepared	: 07/08/19 10:	49 Analyz	zed: 07/08/1	9 16:32						
EPA 200.8												
Lead	ND		0.200	ug/L	1							
LCS (9070687-BS1)		Prepared	: 07/08/19 10:	49 Analyz	zed: 07/08/1	9 16:45						
EPA 200.8												
Lead	16.6		0.200	ug/L	1	16.7		99 8	35 - 115%			
Duplicate (9070687-DUP1)		Prepared	: 07/08/19 10:	49 Analyz	zed: 07/08/1	9 17:08						
QC Source Sample: 019s (A9G008	4-06)											
EPA 200.8												
Lead	3.84		0.200	ug/L	1		3.79			1	20%	
Matrix Spike (9070687-MS1)		Prepared	: 07/08/19 10:	49 Analyz	zed: 07/08/1	9 17:13						
QC Source Sample: 019s (A9G008 EPA 200.8	<u>4-06)</u>											
Lead	20.0		0.200	ug/L	1	16.7	3.79	98	70 - 130%			

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Report ID: A9G0084 - 07 17 19 1000

SAMPLE PREPARATION INFORMATION

		Total Metals	in Drinking Water by	EPA 200.8 (ICPMS)		
Prep: EPA 3015	<u>A</u>				Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 9070683							
A9G0084-02	Drinking Water	EPA 200.8	07/03/19 00:00	07/08/19 09:11	45mL/50mL	45mL/50mL	1.00
A9G0084-04	Drinking Water	EPA 200.8	07/03/19 00:00	07/08/19 09:11	45mL/50mL	45 mL/50 mL	1.00
Prep: Matrix Ma	tched Direct Inject Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 9070687							
A9G0084-01	Drinking Water	EPA 200.8	07/03/19 00:00	07/08/19 10:49	45mL/50mL	45mL/50mL	1.00
A9G0084-03	Drinking Water	EPA 200.8	07/03/19 00:00	07/08/19 10:49	45mL/50mL	45mL/50mL	1.00
A9G0084-05	Drinking Water	EPA 200.8	07/03/19 00:00	07/08/19 10:49	45mL/50mL	45mL/50mL	1.00
A9G0084-06	Drinking Water	EPA 200.8	07/03/19 00:00	07/08/19 10:49	45mL/50mL	45mL/50mL	1.00

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 EPA ID: OR01039

Hope Charter SchoolProject:Drinking Water3500 SW 104th AveProject Number:Lead Drinking WaterReport ID:Beaverton, OR 97005Project Manager:Robyn StolinA9G0084 - 07 17 19 1000

QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

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DW-D Turbidity greater than 1 NTU. Sample was digested per EPA Method 200.8.

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REPORTING NOTES AND CONVENTIONS:

Abbreviations:

DET Analyte DETECTED at or above the detection or reporting limit.

ND Analyte NOT DETECTED at or above the detection or reporting limit.

NR Result Not Reported.

RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).

If no value is listed ('----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.

The Result Basis is listed following the units as "dry", "wet", or " " (blank) designation.

"dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")

See Percent Solids section for details of dry weight analysis.

"wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.

"__" Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) are not included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

"---" QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).

- -For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
- -For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.

For further details, please request a copy of this document.

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Hope Charter SchoolProject:Drinking Water3500 SW 104th AveProject Number:Lead Drinking WaterReport ID:Beaverton, OR 97005Project Manager:Robyn StolinA9G0084 - 07 17 19 1000

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

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LABORATORY ACCREDITATION INFORMATION

TNI Certification ID: OR100062 (Primary Accreditation) - EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the <u>exception</u> of any analyte(s) listed below:

Apex Laboratories

Matrix Analysis TNI_ID Analyte TNI_ID Accreditation

All reported analytes are included in Apex Laboratories' current ORELAP scope.

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.

Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provded by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

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Project Number: Lead Drinking Water

Project Manager: Robyn Stolin

Report ID: A9G0084 - 07 17 19 1000

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Project Manager: Robyn Stolin

Report ID: A9G0084 - 07 17 19 1000

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Delivered		Client <u>X</u> ESS_						
	spection Da	ate/time inspecte	d: 7/3	/19 @_	8:40			
Chain of 0	Sustody included	d? Yes ∕ No		Cı	stody seals?	Yes	No	
Signed/da	ted by client?	Yes 💹 No						
Signed/da	ted by Apex?	Yes No						
		Cooler #1 Co	ooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperatu	ire (°C)	109						
Received	on ice? (Y/N)	_N						
Temp. bla	nks? (Y/N)							~~~
Ice type: (Gel/Real/Other)	None_						
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Bottle labe COC/conta Containers Do VOA v Comments Water samp	ls/COCs agree? niner discrepanci /volumes receive ials have visible ples: pH checked	Yes No	? Yes_ or analysi	No No No No NA	NA <u>X</u> -No C	omments:		
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