



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Monday, January 16, 2023
Otto Rice
Dayton School District
780 Ferry Street / PO Box 219
Dayton, OR 97114

RE: A2L1073 - Drinking Water - [none]

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 A2L1073, which was received by the laboratory on 12/30/2022 at 8:59:00AM.

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

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

Cooler Receipt Information

(See Cooler Receipt Form for details)

Default Cooler	19.8 degC
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This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.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.



Apex Laboratories

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Jason Woodcock, Project Manager



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Dayton School District 780 Ferry Street / PO Box 219 Dayton, OR 97114	Project: Drinking Water Project Number: [none] Project Manager: Otto Rice	Report ID: A2L1073 - 01 16 23 1402
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ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
22531211-043DW22C	A2L1073-01	Drinking Water	12/30/22 00:00	12/30/22 08:59
22531211-044CF22C	A2L1073-02	Drinking Water	12/30/22 00:00	12/30/22 08:59
22531211-046CF22C	A2L1073-03	Drinking Water	12/30/22 00:00	12/30/22 08:59
22531211-050CF22C	A2L1073-04	Drinking Water	12/30/22 00:00	12/30/22 08:59
22531211-064CF22C	A2L1073-05	Drinking Water	12/30/22 00:00	12/30/22 08:59

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ANALYTICAL SAMPLE RESULTS

Total Metals in Drinking Water by EPA 200.8 (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
22531211-043DW22C (A2L1073-01)				Matrix: Drinking Water				
<u>Batch: 22L1003</u>								
Lead	6.14	---	0.200	ug/L	1	12/30/22 16:45	EPA 200.8	
22531211-044CF22C (A2L1073-02)				Matrix: Drinking Water				
<u>Batch: 23A0408</u>								
Lead	15.0	---	0.222	ug/L	1	01/12/23 21:58	EPA 200.8	DW-D
22531211-046CF22C (A2L1073-03)				Matrix: Drinking Water				
<u>Batch: 23A0408</u>								
Lead	6.83	---	0.222	ug/L	1	01/12/23 22:12	EPA 200.8	DW-D
22531211-050CF22C (A2L1073-04)				Matrix: Drinking Water				
<u>Batch: 23A0408</u>								
Lead	2.42	---	0.222	ug/L	1	01/12/23 22:17	EPA 200.8	DW-D
22531211-064CF22C (A2L1073-05)				Matrix: Drinking Water				
<u>Batch: 23A0408</u>								
Lead	12.7	---	0.222	ug/L	1	01/12/23 22:22	EPA 200.8	DW-D

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QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals in Drinking Water by EPA 200.8 (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22L1003 - EPA 200.8 Direct Analysis						Drinking Water						
Blank (22L1003-BLK1)		Prepared: 12/30/22 12:33 Analyzed: 12/30/22 16:37										
<u>EPA 200.8</u>												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	---
LCS (22L1003-BS1)		Prepared: 12/30/22 12:33 Analyzed: 12/30/22 16:41										
<u>EPA 200.8</u>												
Lead	15.4	---	0.201	ug/L	1	15.0	---	103	85 - 115%	---	---	---
Duplicate (22L1003-DUP1)		Prepared: 12/30/22 12:33 Analyzed: 01/03/23 14:29										
<u>QC Source Sample: 22531211-043DW22C (A2L1073-01)</u>												
<u>EPA 200.8</u>												
Lead	6.29	---	0.200	ug/L	1	---	6.14	---	---	2	20%	---
Matrix Spike (22L1003-MS1)		Prepared: 12/30/22 12:33 Analyzed: 01/03/23 14:33										
<u>QC Source Sample: 22531211-043DW22C (A2L1073-01)</u>												
<u>EPA 200.8</u>												
Lead	21.6	---	0.201	ug/L	1	15.0	6.14	103	70 - 130%	---	---	---
Batch 23A0408 - EPA 3015A						Drinking Water						
Blank (23A0408-BLK1)		Prepared: 01/12/23 11:43 Analyzed: 01/12/23 21:48										
<u>EPA 200.8</u>												
Lead	ND	---	0.222	ug/L	1	---	---	---	---	---	---	---
LCS (23A0408-BS1)		Prepared: 01/12/23 11:43 Analyzed: 01/12/23 21:53										
<u>EPA 200.8</u>												
Lead	17.4	---	0.222	ug/L	1	16.7	---	104	85 - 115%	---	---	---
Duplicate (23A0408-DUP1)		Prepared: 01/12/23 11:43 Analyzed: 01/12/23 22:02										
<u>QC Source Sample: 22531211-044CF22C (A2L1073-02)</u>												
<u>EPA 200.8</u>												
Lead	14.7	---	0.222	ug/L	1	---	15.0	---	---	2	20%	DW-D
Matrix Spike (23A0408-MS1)		Prepared: 01/12/23 11:43 Analyzed: 01/12/23 22:07										
<u>QC Source Sample: 22531211-044CF22C (A2L1073-02)</u>												

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QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals in Drinking Water by EPA 200.8 (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A0408 - EPA 3015A						Drinking Water						
Matrix Spike (23A0408-MS1)			Prepared: 01/12/23 11:43 Analyzed: 01/12/23 22:07									
<u>QC Source Sample: 22531211-044CF22C (A2L1073-02)</u>												
<u>EPA 200.8</u>												
Lead	31.1	---	0.222	ug/L	1	16.7	15.0	97	70 - 130%	---	---	DW-D

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SAMPLE PREPARATION INFORMATION

Total Metals in Drinking Water by EPA 200.8 (ICPMS)

<u>Prep: EPA 200.8 Direct Analysis</u>					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 22L1003</u>							
A2L1073-01	Drinking Water	EPA 200.8	12/30/22 00:00	12/30/22 12:33	10mL/10mL	10mL/10mL	1.00

<u>Prep: EPA 3015A</u>					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23A0408</u>							
A2L1073-02	Drinking Water	EPA 200.8	12/30/22 00:00	01/12/23 11:43	45mL/50mL	10mL/10mL	1.11
A2L1073-03	Drinking Water	EPA 200.8	12/30/22 00:00	01/12/23 11:43	45mL/50mL	10mL/10mL	1.11
A2L1073-04	Drinking Water	EPA 200.8	12/30/22 00:00	01/12/23 11:43	45mL/50mL	10mL/10mL	1.11
A2L1073-05	Drinking Water	EPA 200.8	12/30/22 00:00	01/12/23 11:43	45mL/50mL	10mL/10mL	1.11

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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 1/2 the Reporting Limit (RL).
-For Blank hits falling between 1/2 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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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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Table with 3 columns: Client (Dayton School District), Project (Drinking Water), and Report ID (A2L1073 - 01 16 23 1402)

LABORATORY ACCREDITATION INFORMATION

ORELAP 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 exception of any analyte(s) listed below:

Apex Laboratories

Table header with columns: 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 provided by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

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Handwritten signature of Jason Woodcock

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APEX LABS
6700 SW Sandburg St., Tigard, OR 97223 P/N: 503-718-2323
11.2.2022 School District

CHAIN OF CUSTODY

Lab # **A2L1073** of _____

Company: **Dayton USD** Project Mgr: **Otto Rice**
 Address: **PO Box 1154, Dayton, OR 97114** Phone: **503-932-5270** Email: **otto.rice@dayton.k12.or.us**
 Sampled by: **Otto Rice**

SAMPLE ID	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-CB	NWTPH-DX	NWTPH-GX	8260 BTEX	8260 RBDM VOCs	8260 Halo VOCs	8260 VOCs Full List	8270 SIM PAHs	8270 Semi-Vols Full List	8082 PCBs	8081 Pesticides	RCRA Metals (8)	Priority Metals (13)	AL, SP, AS, BA, BE, CD, CA, CR, CO, CU, NI, PB, SE, SG, AG, NA, TL, V, ZN	TOTAL DISS. TCLP	TCLP Metals (8)	Frozen Archive	Hold Sample	
																							OR WA CA
225121-0430422C	12/30/22	0855																					
11-0444722C	12/30/22	0856																					
11-0446722C	12/30/22	0854																					
11-0504722C	12/30/22	0857																					
11-0646722C	12/30/22	0857																					

Standard Turn Around Time (TAT) = 10 Business Days

TAT Requested (circle): 1 Day 2 Day 3 Day 5 Day Standard Other: _____

SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY:
 Signature: *[Signature]* Date: 12/30/22
 Printed Name: **Otto Rice** Time: 0859
 Company: **Dayton Unified School Dist.**

RECEIVED BY:
 Signature: *[Signature]* Date: 12/30/22
 Printed Name: **Doug Silver** Time: 0854
 Company: **Apex**

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APEX LABS COOLER RECEIPT FORM

Client: Dayton USD Element WO#: A2L1073

Project/Project #: Lead

Delivery Info:
Date/time received: 12/30/22 @ 8:59 By: DJS
Delivered by: Apex Client ESS FedEx UPS Swift Senvoy SDS Other

Cooler Inspection Date/time inspected: 12/30/22 @ 8:59 By: DJS
Chain of Custody included? Yes No Custody seals? Yes No
Signed/dated by client? Yes No
Signed/dated by Apex? Yes No

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>19.8</u>						
Received on ice? (Y/N)	<u>N</u>						
Temp. blanks? (Y/N)	<u>N</u>						
Ice type: (Gel/Real/Other)	<u>None</u>						
Condition (In/Out):	<u>Out</u>						

Cooler out of temp? (Y/N) Possible reason why: Drinking water
Green dots applied to out of temperature samples? Yes/No
Out of temperature samples form initiated? Yes/No

Sample Inspection: Date/time inspected: 12/30/22 @ 11:15 By: AAW
All samples intact? Yes No Comments: _____

Bottle labels/COCs agree? Yes No Comments: 22531211 over volume
22532211-0430W22C, on the
container the TD reads 22531211-0430W22B

COC/container discrepancies form initiated? Yes No
Containers/volumes received appropriate for analysis? Yes No Comments: _____

Do VOA vials have visible headspace? Yes No NA
Comments: _____

Water samples: pH checked: Yes No NA pH appropriate? Yes No NA
Comments: _____

Additional information:

Labeled by: AAW Witness: ZAM Cooler Inspected by: AAW
Form Y-003 R-00

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