



**Edgewood Shopping Center
Off-Site Groundwater
Investigation Report**

350-390 E 40th Avenue
Eugene, Oregon 97405

January 29, 2024

Prepared for:

Mr. Robert Breeden
366 E. 40th Avenue, Suite 250
Eugene, Oregon 97405

Prepared by:

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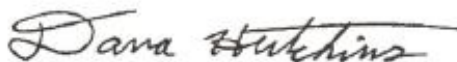
Project No. 185750631

Sign-off Sheet

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This document was prepared under the supervision and direction of the key staff identified below.

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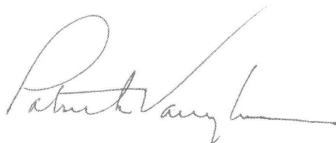
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1.0 INTRODUCTION

This Off-Site Groundwater Assessment Report (Report) has been prepared by Stantec Consulting Services Inc. (Stantec) on behalf of Mr. Robert Breeden for the Edgewood Shopping Center located at 350-390 E. 40th Avenue in Eugene, Oregon (hereafter referred to as “Site”). The purpose of this Report is to address concerns the City of Eugene (City) outlined in their comments to the Oregon Department of Environmental Quality (DEQ) proposed conditional No Further Action (NFA) determination for the Site. The main concerns identified by the City were the lack of knowledge of potential shallow groundwater influences from Site contamination to the City’s stormwater system and potential impacts to ground disturbance activities within public rights-of-ways. This Report documents the results of work outlined in the Sample Procedure Memoranda, Revision 1 (Memo) for the Site approved by Don Hanson with the DEQ on December 8, 2023.

1.1 PROPERTY DESCRIPTION AND HISTORY

The Site is in a residential and commercial area of Eugene, Lane County, Oregon (**Figure 1**). The Site consists of approximately 4.52 acres of land developed with an ‘L’ shaped partial two-story commercial building with multiple tenants. The building is located along the western and southern Site boundaries, and an additional single-story square commercial building with a single tenant is in the northeastern quadrant of the Site. Adjacent land use consists of single-family residences addressed as 315, 345, 375 and 395 E. 41st Avenue to the south; single-family residences to the west, an electric utility substation and multi-family duplexes addressed as 414-425, 435-45 East 40th Avenue to the north and the Edgewood Condominiums addressed as 4023 and 4083 Donald Street to the east. According to the City of Eugene Planning Division, the Site is zoned C-2, community commercial.

1.2 SITE HISTORY

Prior to 1968 and extending to at least 1944, the Site was undeveloped land covered with native vegetation. In 1968, the Site was developed with an ‘L’ shaped building along the west and south side, two irregular-shaped buildings in the northeast corner, and a parking lot covering the remaining portion.

The Site has been owned by the Breeden Family Limited Partnership and Edgewood Shopping Center since development in 1968. The Site has operated as the Edgewood Shopping Center since 1968. Safeway has been the anchor tenant since original construction.

The Site listed as the McCool Property, a former gasoline service station, located at 4010 Donald Street was identified in DEQ databases as leaking underground storage tank (LUST) site 20-91-4095 and environmental cleanup site identification (ECSI) facility number 1209. Chlorinated solvents [i.e., tetrachloroethene (PCE), and trichloroethene (TCE), etc.] were identified at concentrations above the federal drinking water Maximum Contaminant Levels (MCLs) in groundwater samples collected during decommissioning work completed at the McCool Property.

In 2006, the Site identified as Siegmund’s Cleaners located at 370 E 40th Avenue was listed on the ECSI database as facility number 4586 as a State Hazardous Waste Site.

In January 2009, the Siegmund’s Cleaners Site was entered into the Voluntary Cleanup Program-Independent Cleanup Pathway.



Groundwater monitoring events completed at the Site since 2007 indicate the hydraulic gradient beneath the Site flows in a northerly direction.

1.3 FIELD SAMPLING ACTIVITIES

The scope of work described in this Report includes 1) collection of shallow groundwater samples to assess any impacts within city rights-of-ways, and 2) collection of stormwater samples both upgradient and downgradient of the Property to determine if on-Site impacts from groundwater attributable to the Site are entering the City's stormwater system. Sampling locations are shown on **Figure 1**.

1.4 PRE-FIELD ACTIVITIES

1.4.1 Utility Clearance

Prior to subsurface work at the Property, Stantec contacted the Utility Notification Center and requested a public underground utility locate.

1.4.2 Right of Way Permit

Stantec obtained a right of way excavation permit from the City prior to the commencing work within Donald Street and East 40th Avenue. Accordingly, permit number 24-00084-01 was issued on January 8, 2024. A copy of the permit is included in **Appendix B**.

Post-work inspection of surface patches pursuant to the right of way permit was completed and approved by the City on January 30, 2024.

1.4.3 Health and Safety

Stantec prepared a Site-Specific Health and Safety Plan, as required by 40 Code of Federal Regulations 1910.120 to describe field sampling activity safety protocols to be followed during the project. At the start of each day of field work a "tailgate" meeting was held and safety protocols reviewed.

1.5 SAMPLING ACTIVITIES AND SUBSURFACE CONDITIONS

The tasks and field sampling activities described below were performed in general accordance with the approved Memo with the following deviations:

- Refusal was encountered prior to encountering groundwater in boring HA-1, HA-3, HA-6, and HA-7; therefore, groundwater was unable to be collected in these locations. Stantec does not consider this a data gap, as the lack of groundwater at these locations indicates no potential exists for contaminated groundwater to be present in shallow utility corridors.
- Due to constant rain fall during field activities, Stantec was not able to observe the storm drain manholes during a non-discharge period.
- The on-Site storm drain located on the northwest corner of the Site was not sampled due to high rainfall resulting in standing water above the drain's grate.



1.5.1 Groundwater Sampling

Groundwater samples were collected from three hand auger borings (HA-2, HA-4, and HA-5) to evaluate shallow groundwater conditions in Donald Street and East 40th Avenue, respectively (**Figure 1**). Static groundwater was identified between 1 foot below ground surface (bgs) and 6 feet bgs. Groundwater samples were collected by installing a 1-inch diameter polyvinyl chloride (PVC) temporary well with a 1-inch diameter slotted screen, which was positioned to intercept the top of the water table. Groundwater samples were collected using a volumetric purge method and collected into laboratory-supplied bottles.

Groundwater samples were analyzed for the following:

- VOCs via United States Environmental Protection Agency (USEPA) Method 8260D.

Groundwater samples were collected in accordance with the procedure included in the Memo (Stantec 2023) using new, disposable down-hole tubing and a peristaltic pump to purge the temporary wells and tubing to collect each sample.

1.5.2 Subsurface Conditions

During boring advancement, soils were logged by Stantec representative and Oregon-registered geologist Dana Hutchins. Soil from each boring was observed for visual and olfactory evidence of petroleum hydrocarbon impacts. Photoionization detector (PID) readings did not exceed 0.0 parts per million (ppm). No obvious indications of petroleum or hazardous substance impacts were observed in soil borings.

Subsurface materials encountered at the Property generally included clay, silt, sand, and gravel. Siltstone bedrock was encountered in the soil borings at 4 to 7 feet bgs.

Borehole logs are included in **Appendix A**.

1.5.3 Borehole Abandonment and Investigation-Derived Waste

Following groundwater sampling activities, soil cuttings and purge water from sampling were containerized in a Department of Transportation approved steel 55-gallon drum. Soil borings were backfilled with bentonite and patched with asphalt and concrete to match existing grade.

1.5.4 Stormwater Sampling

Stormwater samples were collected from three separate stormwater drains/manholes as shown on **Figure 1**. Samples were collected during a rainfall event on January 9, 2024 utilizing a new disposable bailer at each location. Grab stormwater samples were collected from the following locations:

- Drain # 70365: stormwater inlet on the southwestern side; and
- Manhole # 50669:
 - Stormwater inlet on the western side; and
 - Stormwater inlet on the southwestern side.

Drain # 70365 and Manhole # 50669 are directly downgradient from the Site and have the potential to be impacted by shallow groundwater sourced from the Site.



**Edgewood Shopping Center Off-Site Groundwater Investigation Report – 350-390 E 40th Avenue
Eugene, Oregon 97405**

One additional sample was collected from the stormwater inlet on the southern side of Manhole # 68720, which is located upgradient from the Site and was sampled to assess any possible upgradient sources of contamination within the City's stormwater system.



2.0 LABORATORY TESTING RESULTS

In the subsections that follow, laboratory testing results are summarized for groundwater and stormwater samples collected at the Property. All laboratory testing was completed in accordance with the Memo. Since the purpose of this investigation was to determine the presence of contamination sourced from the Site in utility corridors City within the right of way, results were compared to the DEQ Risk-Based Concentrations (RBCs) for construction and excavation worker receptors (DEQ 2023).

2.1 GROUNDWATER

Four groundwater samples (including one field duplicate collected from HA-4) collected from the Site were submitted for laboratory analysis.

Groundwater analytical results are described by analyte group in the subsections that follow. A comparison of groundwater testing results to potentially applicable DEQ RBCs is summarized in **Tables 1**. The Apex Laboratory analytical reports are provided in **Appendix C**.

2.1.1 Volatile Organic Compounds – Groundwater

The four groundwater samples were analyzed for VOCs. VOCs including chloromethane, 1,2-dichloroethene, PCE, and TCE were detected above laboratory method reporting limits (LRLs) at one or more locations. PCE was detected at concentrations ranging from 15.8 to 187 µg/L and TCE was detected at concentrations ranging from 1.29 to 18.5 µg/L. The detected VOCs were below the applicable DEQ RBCs (RBC_{we-groundwater} in an excavation) (**Table 1**).

2.2 STORMWATER

Three stormwater samples collected from the Site were submitted for laboratory analysis.

Stormwater analytical results are described by analyte group in the subsections that follow. Stormwater testing results are summarized in **Table 1**. The Apex analytical reports are provided in **Appendix C**.

2.2.1 Volatile Organic Compounds – Stormwater

The three stormwater samples were analyzed for VOCs. Chloromethane was the only detected VOC above MDLs at one or more locations. The detected VOC was below applicable DEQ RBCs. A summary of VOC detections in stormwater is provided in **Table 1**.



3.0 CONCLUSIONS

Stantec completed an off-Site groundwater assessment for the Edgewood Shopping Center located at 350-390 E. 40th Avenue in Eugene, Oregon, to address the concerns from the City outlined in their comments to DEQ's proposed conditional NFA determination for the Site. The main concerns identified by the City were the lack of knowledge of potential shallow groundwater influences from contamination sourced from the Site to the City's stormwater system and potential worker exposure during ground disturbance activities within public rights-of-ways.

Environmental findings from the off-Site assessment, considering future planned activities within the City's utility corridors (construction and excavation worker), include the following:

- Based on laboratory results compared to published DEQ RBCs, exposure to excavation/construction workers from encountered Site-related contaminants in groundwater entering an excavation in areas investigated does not represent an unacceptable cancer risk or non-cancer hazard.
- Stormwater collected downgradient of the Site shows no impacts of VOCs from groundwater sourced from the Site.



4.0 LIMITATIONS

This report documents work that was performed in accordance with generally accepted professional standards at the time and location in which the services were provided. No other representations, warranties or guarantees are made concerning the accuracy or completeness of the data or conclusions contained within this report, including no assurance that this work has uncovered all potential liabilities associated with the identified property.

This report provides an evaluation of selected environmental conditions associated with the identified portion of the property that was assessed at the time the work was conducted and is based on information obtained by and/or provided to Stantec at that time. There are no assurances regarding the accuracy and completeness of this information. All information received from the client or third parties in the preparation of this report has been assumed by Stantec to be correct. Stantec assumes no responsibility for any deficiency or inaccuracy in information received from others.

The conclusions are based on the site conditions encountered by Stantec at the time the work was performed at the specific testing and/or sampling locations, and conditions may vary among sampling locations. Factors such as areas of potential concern identified in previous studies, site conditions (e.g., utilities) and cost may have constrained the sampling locations used in this assessment. In addition, analysis has been carried out for only a limited number of chemical parameters, and it should not be inferred that other chemical species are not present. Due to the nature of the investigation and the limited data available, Stantec does not warrant against undiscovered environmental liabilities nor that the sampling results are indicative of the condition of the entire site. As the purpose of this report is to identify site conditions which may pose an environmental risk; the identification of non-environmental risks to structures or people on the site is beyond the scope of this assessment.

The opinions in this report can only be relied upon as they relate to the condition of the portion of the identified property that was assessed at the time the work was conducted. Activities at the property subsequent to Stantec's assessment may have significantly altered the property's condition. Stantec cannot comment on other areas of the property that were not assessed.

Conclusions made within this report consist of Stantec's professional opinion as of the time of the writing of this report and are based solely on the scope of work described in the report, the limited data available and the results of the work. They are not a certification of the property's environmental condition. This report should not be construed as legal advice.



5.0 REFERENCES

- DEQ 1998. Guidance for Identification Hot Spots. Oregon Department of Environmental Quality. April 23.
- DEQ 2010. Guidance for Assessing and Remediating Vapor Intrusion in Buildings. Oregon Department of Environmental Quality. Environmental Cleanup Program. March.
- DEQ 2010. Human Health Risk Assessment Guidance. Oregon Department of Environmental Quality. Environmental Cleanup Program. October.
- DEQ, 2023, Oregon DEQ Risk-Based Concentrations For Individual Chemicals, June 2023.
- USEPA. 1992. Supplemental Guidance to RAGS: Calculating the Concentration Term. Memorandum from Larry G. Reed, Director of Hazardous Waste Site Evaluation Division, OERR. OERR 9285.7-081. 22 June.
- EPA 2015. OSWER Technical Guide for Assessing and Mitigating the Vapor Intrusion Pathway from Subsurface Vapor Sources to Indoor Air. United States Environmental Protection Agency, Office of Solid Waste and Emergency Response.
- Oregon DEQ 1998, Guidance for Conduction Beneficial Water Use Determinations at Environmental Cleanup Sites, July 1.
- SECOR 2007, Phase I Environmental Site Assessment, October 29, 2007.
- Stantec 2008, Additional Phase II Environmental Site Assessment, October 28, 2008.
- Stantec 2009. Vapor Intrusion Assessment Report, Edgewood Shopping Center, 366 E. 40th Avenue, Eugene, Oregon 97405. Stantec Consulting Corporation, August 6, 2009.
- Stantec 2011. Vapor Intrusion Sampling Report, Edgewood Shopping Center-Nearby Properties, 40th Avenue and Donald Street, Eugene, Oregon 97405. Stantec Consulting Corporation, February 8, 2011.



TABLES



Table 1. Groundwater/Stormwater Sample Analytical Results - Volatile Organic Compoundss
Edgewood Shopping Center, 350-390 E 40th Avenue, Eugene, Oregon

Sample ID	Sample Date	Depth to Water (feet)	VOCs - 8260B (µg/L)			
			PCE	TCE	cis-1,2-DCE	Chloromethane
CD-70365	1/9/2024	NA	<0.400	<0.400	<0.400	<5.00
CM-50669	1/9/2024	NA	<0.400	<0.400	<0.400	<5.00
CM-68720	1/9/2024	NA	<0.400	<0.400	<0.400	10.1
HA-2	1/10/2024	6.0	15.8	<0.400	<0.400	<5.00
HA-4	1/10/2024	1.0	48.4	1.31	<0.400	32.5
HA-X (Dup of HA-4)	1/10/2024	1.0	50.4	1.29	<0.400	<5.00
HA-5	1/9/2024	1.8	187	18.5	2.78	17.1
Generic RBC _{we} Constrution and Excavation Worker			5,600	430	18,000	22,000

NOTES:

PCE = Tetrachloroethene

TCE = Trichloroethene

cis-1,2-DCE = cis-1,2-Dichloroethene

NA = Not Anglyzed, Not Applicable, Not Available, or Not Surveyed

Yellow Shaded = Detected value in excess of one or more RBCs

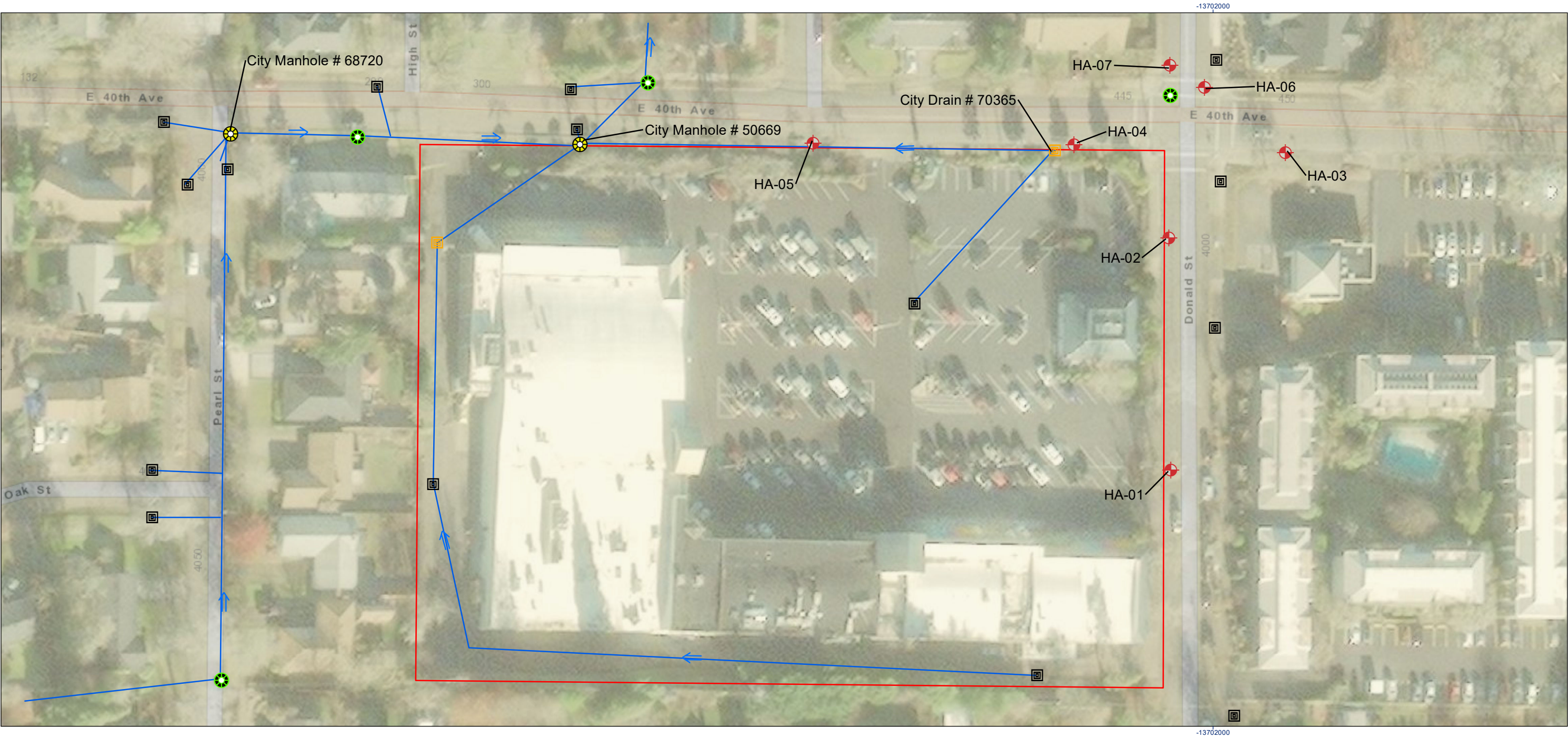
Oregon Department of Environmental Quality Risk-Based Concentrations (RBCs), May 2018 revision amended June 2023

>S = This groundwater RBC exceeds the solubility limit. Groundwater concentrations in excess of S indicate that free product may be present

FIGURES



V:\1857\Active\185750631_Edgewood\mxd\SW_GW_sample_map_20231116.mxd Revised: 2023-12-05 By: dahutchins



- Legend
- Project Boundary
 - Drain (not sampled)
 - Drain (Proposed Sample Location)
 - Manhole (Not Sampled)
 - Manhole (Proposed Sample Location)
 - Stormline
 - Proposed Shallow Groundwater Sample Point

Notes
1. Coordinate System: WGS 1984 Web Mercator Auxiliary Sphere
2. Data Sources:
3. Background: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

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(At original document size of 11x17)
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Project Location
350-300 E 40th Avenue
Eugene, Oregon

Prepared by DH on 2023-12-5
TR by PV on 2023-12-5
IR Review by RM on 2023-12-5

Client/Project
Edgewood Shopping Center
350-300 E 40th Avenue
Eugene, Oregon

185750631

Figure No.
1

Title
**Stormwater and Shallow Groundwater
Sample Location Map**

APPENDIX A

Boring Logs



PROJECT: **Edgewood Shopping Center**
LOCATION: **350-390 East 40th Avenue, Eugene OR**
PROJECT NUMBER: **185750631**

WELL / PROBEHOLE / BOREHOLE NO

HA-1

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Stantec

DRILLING / INSTALLATION:

STARTED: **1/11/24** COMPLETED: **1/11/24**

DRILLING COMPANY: **Steadfast**

DRILLING EQUIPMENT: **Hand Auger**

DRILLING METHOD: **Hand Auger**

SAMPLING EQUIPMENT: **None**

NORTHING (ft):

LAT:

GROUND ELEV (ft):

INITIAL DTW (ft): **Not Encountered**

STATIC DTW (ft): **Not Encountered**

WELL CASING DIA. (in): **---**

LOGGED BY: **Dana Hutchins**

EASTING (ft):

LONG:

TOC ELEV (ft):

WELL DEPTH (ft): **---**

BOREHOLE DEPTH (ft): **4.00**

BOREHOLE DIA. (in): **3**

CHECKED BY:

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)
0900			Asphalt						
			SANDY GRAVEL LITTLE COBBLES ; fill						
		SP-SM	SILTY SAND LITTLE GRAVEL ; SP-SM; light reddish brown; non plastic; moist; no odor; no staining		No sample collected	4/4		0.0	
1015			Encountered siltstone bedrock Refusal at 4 feet. Borehole terminated at 4 feet.						

PROJECT: **Edgewood Shopping Center**
LOCATION: **350-390 East 40th Avenue, Eugene OR**
PROJECT NUMBER: **185750631**

WELL / PROBEHOLE / BOREHOLE NO

HA-2 PAGE 1 OF 1



DRILLING / INSTALLATION:

STARTED: **1/10/24** COMPLETED: **1/10/24**

DRILLING COMPANY: **Steadfast**

DRILLING EQUIPMENT: **Hand Auger**

DRILLING METHOD: **Hand Auger**

SAMPLING EQUIPMENT: **Temp Well**

NORTHING (ft):

LAT:

GROUND ELEV (ft):

INITIAL DTW (ft): **6.0**

STATIC DTW (ft): **Not Encountered**

WELL CASING DIA. (in): **1**

LOGGED BY: **Dana Hutchins**

EASTING (ft):

LONG:

TOC ELEV (ft):

WELL DEPTH (ft): **6.5**

BOREHOLE DEPTH (ft): **6.50**

BOREHOLE DIA. (in): **3**

CHECKED BY:

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Borehole Backfill
1130			Asphalt							
			GRAVEL ; fill							
		MLS	SANDY SILT LITTLE GRAVEL ; MLS; light brown to tan; low plasticity; soft; moist to wet; no odor; no staining		No soil sampling	5/5		0.0	5	1" temp PVC well in open boring.
			Saturated @ 6.2' bgs			1.5/1.5				No sand pack, screened 1.6 to 6.5' bgs.
			Borehole terminated at 6.5 feet.							Collected GW sample HA-2 @ 1245

PROJECT: **Edgewood Shopping Center**
LOCATION: **350-390 East 40th Avenue, Eugene OR**
PROJECT NUMBER: **185750631**

WELL / PROBEHOLE / BOREHOLE NO

HA-3

PAGE 1 OF 1



Stantec

DRILLING / INSTALLATION:

STARTED: **1/11/24** COMPLETED: **1/11/24**

DRILLING COMPANY: **Steadfast**

DRILLING EQUIPMENT: **Hand Auger**

DRILLING METHOD: **Hand Auger**

SAMPLING EQUIPMENT: **None**

NORTHING (ft):

LAT:

GROUND ELEV (ft):

INITIAL DTW (ft): **Not Encountered**

STATIC DTW (ft): **Not Encountered**

WELL CASING DIA. (in): **---**

LOGGED BY: **Dana Hutchins**

EASTING (ft):

LONG:

TOC ELEV (ft):

WELL DEPTH (ft): **---**

BOREHOLE DEPTH (ft): **4.00**

BOREHOLE DIA. (in): **3**

CHECKED BY:

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)
1330			Asphalt						
			GRAVEL ; fill						
		CH	CLAY ; CH; gray; high plasticity; medium dense; moist; no odor; no staining		No sample collected	4/4		0.0	
		MLS	SANDY SILT LITTLE GRAVEL ; MLS; light brown to tan; non plastic; medium dense; moist; no odor; no staining						
			SILTSTONE ; dry; moderately weathered						
Refusal at 4 feet. Borehole terminated at 4 feet.									
5									

PROJECT: **Edgewood Shopping Center**
LOCATION: **350-390 East 40th Avenue, Eugene OR**
PROJECT NUMBER: **185750631**

WELL / PROBEHOLE / BOREHOLE NO

HA-4 PAGE 1 OF 1



DRILLING / INSTALLATION:

STARTED: **1/10/24** COMPLETED: **1/10/24**

DRILLING COMPANY: **Steadfast**

DRILLING EQUIPMENT: **Hand Auger**

DRILLING METHOD: **Hand Auger**

SAMPLING EQUIPMENT: **Temp Well**

NORTHING (ft):

LAT:

GROUND ELEV (ft):

INITIAL DTW (ft): **1.0**

STATIC DTW (ft): **Not Encountered**

WELL CASING DIA. (in): **1**

LOGGED BY: **Dana Hutchins**

EASTING (ft):

LONG:

TOC ELEV (ft):

WELL DEPTH (ft): **3.0**

BOREHOLE DEPTH (ft): **3.00**

BOREHOLE DIA. (in): **3**

CHECKED BY:

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Borehole Backfill
0900			Asphalt							
			GRAVEL ; fill							
		GP-GM	SANDY GRAVEL WITH SILT ; GP-GM; brown; non plastic; loose; saturated; no odor; no staining		No soil sampling	3/3		0.0		
			Borehole terminated at 3 feet.							No sand pack, 1" PVC temp well screened 0 to 3' bgs. Collected GW sample HA-4 @ 0945 and dup HA-X @ 1000.
5										

PROJECT: **Edgewood Shopping Center**
LOCATION: **350-390 East 40th Avenue, Eugene OR**
PROJECT NUMBER: **185750631**

WELL / PROBEHOLE / BOREHOLE NO

HA-6

PAGE 1 OF 1



Stantec

DRILLING / INSTALLATION:

STARTED: **1/11/24** COMPLETED: **1/11/24**

DRILLING COMPANY: **Steadfast**

DRILLING EQUIPMENT: **Hand Auger**

DRILLING METHOD: **Hand Auger**

SAMPLING EQUIPMENT: **None**

NORTHING (ft):

LAT:

GROUND ELEV (ft):

INITIAL DTW (ft): **Not Encountered**

STATIC DTW (ft): **Not Encountered**

WELL CASING DIA. (in): **---**

LOGGED BY: **Dana Hutchins**

EASTING (ft):

LONG:

TOC ELEV (ft):

WELL DEPTH (ft): **---**

BOREHOLE DEPTH (ft): **5.00**

BOREHOLE DIA. (in): **3**

CHECKED BY:

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)
			Asphalt						
			GRAVEL ; fill						
		MLS	SANDY SILT WITH GRAVEL ; MLS; brown; non plastic; medium dense; moist; no odor; no staining		No sample collected	5/5		0.0	
		ML	SILT ; ML; light brown; non plastic; dense; dry; no odor; no staining						
5			Encountered siltstone bedrock Refusal at 5 feet. Borehole terminated at 5 feet.						5

PROJECT: **Edgewood Shopping Center**
LOCATION: **350-390 East 40th Avenue, Eugene OR**
PROJECT NUMBER: **185750631**

WELL / PROBEHOLE / BOREHOLE NO

HA-7 PAGE 1 OF 1



DRILLING / INSTALLATION:
STARTED: **1/10/24** COMPLETED: **1/10/24**
DRILLING COMPANY: **Steadfast**
DRILLING EQUIPMENT: **Hand Auger**
DRILLING METHOD: **Hand Auger**
SAMPLING EQUIPMENT: **None**

NORTHING (ft):
LAT:
GROUND ELEV (ft):
INITIAL DTW (ft): **Not Encountered**
STATIC DTW (ft): **Not Encountered**
WELL CASING DIA. (in): **---**
LOGGED BY: **Dana Hutchins**

EASTING (ft):
LONG:
TOC ELEV (ft):
WELL DEPTH (ft): **---**
BOREHOLE DEPTH (ft): **7.00**
BOREHOLE DIA. (in): **3**
CHECKED BY:

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)
1400			Asphalt						
			GRAVEL ; fill						
		CL	GRAVELLY CLAY LITTLE SAND ; CL; brown; medium plasticity; moist; no odor; no staining						
		CH	CLAY ; CH; brown; high plasticity; firm; moist; no odor; no staining					0.0	
						5/5			
5					No sample collected.			0.0	5
						2/2			
1530			Refusal at 7 feet. Borehole terminated at 7 feet.						

APPENDIX B

Right of Way Permit



PUBLIC WORKS PERMIT

It is the permit holder's responsibility to manage the permit and obtain inspection approvals. Most permits will expire 360 days after issuance or 360 days after the last (progress) inspection. One 180 day extension is available upon written requests. Expired permits are subject to renewal fees and may be subject to enforcement action. Manage your permits online at: WWW.EUGENE-OR.GOV/BLDGPERMITTRACKING



Planning and Development

Building and Permit Services

99 West 10th Avenue
Eugene, OR 97401

Schedule inspections online at www.eugene-or.gov/scheduleinspection

(541) 682-5283 Information

(541) 682-6806 FAX

PERMIT NUMBER: **24-00084-01**

ISSUED: **1/8/2024**

SITE ADDRESS: **366 E 40TH AVE**

PRIMARY MAP TAXLOT: 18031811 - 00100

SUBDIVISION: ADDITION:

LOT #:

BLOCK #:

PROJECT DESCRIPTION:

6-inch diameter asphalt core to advance soil sampling equipment beneath street

PERMIT INSTRUCTIONS

OWNER:

CONTRACTOR:

TENANT:

INSPECTIONS:

EDGEWOOD SHOPPING CENTER
LLC
366 E 40TH AVE
EUGENE, OR 97405

750 R/W Excavation

ZONING DISTRICT: C-2

EXISTING USE: 4600

MULTIPLE USE:

PROPOSED USE:

CONSTRUCTION TYPES:

OCCUPANCY GROUPS:

PERMIT FEES:

1 R-O-W Excavation (w/ pavement cuts)	\$641.00
PW Plan Check Admin	\$0.00

CONSTRUCTION PERMIT PROJECT OWNER'S RESPONSIBILITY

- Post address on construction site before requesting City inspections.
- Have approved plans and inspection records on project site available for City inspectors to examine.
- Schedule all required inspections and obtain approval. see the revers side of this permit for the list of required inspections.
- Cover work only after inspected and approved by the City inspector.
- Any deviations from the City approved plans require approved documentation to be available at the time of inspection.
- No occupancy or use of the area covered by the permit is allowed until authorized by the City. Temporary Occupancy may be allowed. Discuss options with your inspector.
- Use your permit numbers as identification when contacting the Permit and Information Center.

On-line Inspection Request
www.eugene-or.gov/scheduleinspection

Inspection requests called in after 7:00 a.m.
will be scheduled for the following day.

WHEN REQUESTING AN INSPECTION:

Your project must be ready for inspection when you make the request. When requesting inspections online, you will see a list of needed inspections for your project. If you do not see the inspection in the list which you wish to request, contact your project coordinator for clarification of inspections needed for your project.

If you do not have access to a computer, you may request inspections by calling Inspection Support Staff at 541-682-5283.

Inspectors are available by phone from 7:30 a.m. to 4:00 p.m. You may call you inspector(s) directly or contact inspection support staff at 541-682-5283

To track your permit on-line go to: www.eugene-or.gov/bldgpermittracking

APPENDIX C

LABORATORY REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION





ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Tuesday, January 30, 2024

Patrick Vaughan

Stantec Portland

601 SW 2nd Ave Suite 1400

Portland, OR 97204

RE: A4A1253 - Edgewood - 185750631

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 A4A1253, which was received by the laboratory on 1/19/2024 at 1:30:00PM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: pnerenberg@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

Acceptable Receipt Temperature is less than, or equal to, 6 degC (not frozen), or received on ice the same day as sampling.

(See Cooler Receipt Form for details)

Default Cooler 2.0 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.



Apex Laboratories

Philip Nerenberg

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Philip Nerenberg, Lab Director



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Stantec Portland

601 SW 2nd Ave Suite 1400
Portland, OR 97204

Project: **Edgewood**

Project Number: **185750631**

Project Manager: **Patrick Vaughan**

Report ID:

A4A1253 - 01 30 24 1356

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CD-70365	A4A1253-01	Water	01/09/24 10:45	01/19/24 13:30
HA-5	A4A1253-02	Water	01/09/24 13:10	01/19/24 13:30
CM-50669	A4A1253-03	Water	01/09/24 14:15	01/19/24 13:30
CM-68720	A4A1253-04	Water	01/09/24 15:00	01/19/24 13:30
HA-4	A4A1253-05	Water	01/10/24 09:45	01/19/24 13:30
HA-X	A4A1253-06	Water	01/10/24 10:00	01/19/24 13:30
HA-2	A4A1253-07	Water	01/10/24 12:45	01/19/24 13:30
Drum-S-Edge	A4A1253-08	Soil	01/11/24 16:00	01/19/24 13:30

Apex Laboratories

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Philip Nerenberg, Lab Director



ANALYTICAL REPORT

Apex Laboratories, LLC

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Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Stantec Portland

601 SW 2nd Ave Suite 1400

Portland, OR 97204

Project: **Edgewood**

Project Number: **185750631**

Project Manager: **Patrick Vaughan**

Report ID:

A4A1253 - 01 30 24 1356

ANALYTICAL SAMPLE RESULTS

Hydrocarbon Identification Screen by NWTPH-HCID

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Drum-S-Edge (A4A1253-08)				Matrix: Soil		Batch: 24A0577		
Gasoline Range Organics	ND	---	27.5	mg/kg dry	1	01/22/24 22:07	NWTPH-HCID	
Diesel Range Organics	ND	---	68.8	mg/kg dry	1	01/22/24 22:07	NWTPH-HCID	
Oil Range Organics	ND	---	138	mg/kg dry	1	01/22/24 22:07	NWTPH-HCID	
<i>Surrogate: o-Terphenyl (Surr)</i>			<i>Recovery: 83 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>01/22/24 22:07</i>	<i>NWTPH-HCID</i>	
<i>4-Bromofluorobenzene (Surr)</i>			<i>83 %</i>	<i>50-150 %</i>	<i>1</i>	<i>01/22/24 22:07</i>	<i>NWTPH-HCID</i>	

Apex Laboratories

Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062Stantec Portland
601 SW 2nd Ave Suite 1400
Portland, OR 97204Project: Edgewood
Project Number: 185750631
Project Manager: Patrick VaughanReport ID:
A4A1253 - 01 30 24 1356

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
CD-70365 (A4A1253-01RE1)				Matrix: Water		Batch: 24A0599		CONT
Acetone	ND	---	20.0	ug/L	1	01/22/24 19:09	EPA 8260D	
Acrylonitrile	ND	---	2.00	ug/L	1	01/22/24 19:09	EPA 8260D	
Benzene	ND	---	0.200	ug/L	1	01/22/24 19:09	EPA 8260D	
Bromobenzene	ND	---	0.500	ug/L	1	01/22/24 19:09	EPA 8260D	
Bromochloromethane	ND	---	1.00	ug/L	1	01/22/24 19:09	EPA 8260D	
Bromodichloromethane	ND	---	1.00	ug/L	1	01/22/24 19:09	EPA 8260D	
Bromoform	ND	---	1.00	ug/L	1	01/22/24 19:09	EPA 8260D	
Bromomethane	ND	---	5.00	ug/L	1	01/22/24 19:09	EPA 8260D	
2-Butanone (MEK)	ND	---	10.0	ug/L	1	01/22/24 19:09	EPA 8260D	
n-Butylbenzene	ND	---	1.00	ug/L	1	01/22/24 19:09	EPA 8260D	
sec-Butylbenzene	ND	---	1.00	ug/L	1	01/22/24 19:09	EPA 8260D	
tert-Butylbenzene	ND	---	1.00	ug/L	1	01/22/24 19:09	EPA 8260D	
Carbon disulfide	ND	---	10.0	ug/L	1	01/22/24 19:09	EPA 8260D	
Carbon tetrachloride	ND	---	1.00	ug/L	1	01/22/24 19:09	EPA 8260D	
Chlorobenzene	ND	---	0.500	ug/L	1	01/22/24 19:09	EPA 8260D	
Chloroethane	ND	---	5.00	ug/L	1	01/22/24 19:09	EPA 8260D	
Chloroform	ND	---	1.00	ug/L	1	01/22/24 19:09	EPA 8260D	
Chloromethane	ND	---	5.00	ug/L	1	01/22/24 19:09	EPA 8260D	
2-Chlorotoluene	ND	---	1.00	ug/L	1	01/22/24 19:09	EPA 8260D	
4-Chlorotoluene	ND	---	1.00	ug/L	1	01/22/24 19:09	EPA 8260D	
Dibromochloromethane	ND	---	1.00	ug/L	1	01/22/24 19:09	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	---	5.00	ug/L	1	01/22/24 19:09	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	01/22/24 19:09	EPA 8260D	
Dibromomethane	ND	---	1.00	ug/L	1	01/22/24 19:09	EPA 8260D	
1,2-Dichlorobenzene	ND	---	0.500	ug/L	1	01/22/24 19:09	EPA 8260D	
1,3-Dichlorobenzene	ND	---	0.500	ug/L	1	01/22/24 19:09	EPA 8260D	
1,4-Dichlorobenzene	ND	---	0.500	ug/L	1	01/22/24 19:09	EPA 8260D	
Dichlorodifluoromethane	ND	---	1.00	ug/L	1	01/22/24 19:09	EPA 8260D	
1,1-Dichloroethane	ND	---	0.400	ug/L	1	01/22/24 19:09	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	---	0.400	ug/L	1	01/22/24 19:09	EPA 8260D	
1,1-Dichloroethene	ND	---	0.400	ug/L	1	01/22/24 19:09	EPA 8260D	
cis-1,2-Dichloroethene	ND	---	0.400	ug/L	1	01/22/24 19:09	EPA 8260D	
trans-1,2-Dichloroethene	ND	---	0.400	ug/L	1	01/22/24 19:09	EPA 8260D	

Apex Laboratories

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Philip Nerenberg, Lab Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**Stantec Portland**601 SW 2nd Ave Suite 1400
Portland, OR 97204Project: **Edgewood**Project Number: **185750631**Project Manager: **Patrick Vaughan****Report ID:****A4A1253 - 01 30 24 1356**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
CD-70365 (A4A1253-01RE1)				Matrix: Water		Batch: 24A0599		CONT
1,2-Dichloropropane	ND	---	0.500	ug/L	1	01/22/24 19:09	EPA 8260D	
1,3-Dichloropropane	ND	---	1.00	ug/L	1	01/22/24 19:09	EPA 8260D	
2,2-Dichloropropane	ND	---	1.00	ug/L	1	01/22/24 19:09	EPA 8260D	
1,1-Dichloropropene	ND	---	1.00	ug/L	1	01/22/24 19:09	EPA 8260D	
cis-1,3-Dichloropropene	ND	---	1.00	ug/L	1	01/22/24 19:09	EPA 8260D	
trans-1,3-Dichloropropene	ND	---	1.00	ug/L	1	01/22/24 19:09	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	01/22/24 19:09	EPA 8260D	
Hexachlorobutadiene	ND	---	5.00	ug/L	1	01/22/24 19:09	EPA 8260D	
2-Hexanone	ND	---	10.0	ug/L	1	01/22/24 19:09	EPA 8260D	
Isopropylbenzene	ND	---	1.00	ug/L	1	01/22/24 19:09	EPA 8260D	
4-Isopropyltoluene	ND	---	1.00	ug/L	1	01/22/24 19:09	EPA 8260D	
Methylene chloride	ND	---	10.0	ug/L	1	01/22/24 19:09	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	---	10.0	ug/L	1	01/22/24 19:09	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	01/22/24 19:09	EPA 8260D	
Naphthalene	ND	---	5.00	ug/L	1	01/22/24 19:09	EPA 8260D	
n-Propylbenzene	ND	---	0.500	ug/L	1	01/22/24 19:09	EPA 8260D	
Styrene	ND	---	1.00	ug/L	1	01/22/24 19:09	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	---	0.400	ug/L	1	01/22/24 19:09	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	---	0.500	ug/L	1	01/22/24 19:09	EPA 8260D	
Tetrachloroethene (PCE)	ND	---	0.400	ug/L	1	01/22/24 19:09	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	01/22/24 19:09	EPA 8260D	
1,2,3-Trichlorobenzene	ND	---	2.00	ug/L	1	01/22/24 19:09	EPA 8260D	
1,2,4-Trichlorobenzene	ND	---	2.00	ug/L	1	01/22/24 19:09	EPA 8260D	
1,1,1-Trichloroethane	ND	---	0.400	ug/L	1	01/22/24 19:09	EPA 8260D	
1,1,2-Trichloroethane	ND	---	0.500	ug/L	1	01/22/24 19:09	EPA 8260D	
Trichloroethene (TCE)	ND	---	0.400	ug/L	1	01/22/24 19:09	EPA 8260D	
Trichlorofluoromethane	ND	---	2.00	ug/L	1	01/22/24 19:09	EPA 8260D	
1,2,3-Trichloropropane	ND	---	1.00	ug/L	1	01/22/24 19:09	EPA 8260D	
1,2,4-Trimethylbenzene	ND	---	1.00	ug/L	1	01/22/24 19:09	EPA 8260D	
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	01/22/24 19:09	EPA 8260D	
Vinyl chloride	ND	---	0.200	ug/L	1	01/22/24 19:09	EPA 8260D	
m,p-Xylene	ND	---	1.00	ug/L	1	01/22/24 19:09	EPA 8260D	
o-Xylene	ND	---	0.500	ug/L	1	01/22/24 19:09	EPA 8260D	

Apex Laboratories

Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Stantec Portland

601 SW 2nd Ave Suite 1400

Portland, OR 97204

Project: **Edgewood**Project Number: **185750631**Project Manager: **Patrick Vaughan****Report ID:****A4A1253 - 01 30 24 1356**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
CD-70365 (A4A1253-01RE1)		Matrix: Water			Batch: 24A0599		CONT	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 103 %	Limits: 80-120 %	1	01/22/24 19:09	EPA 8260D		
Toluene-d8 (Surr)		102 %	80-120 %	1	01/22/24 19:09	EPA 8260D		
4-Bromofluorobenzene (Surr)		95 %	80-120 %	1	01/22/24 19:09	EPA 8260D		
HA-5 (A4A1253-02RE1)		Matrix: Water			Batch: 24A0599		CONT	
Acetone	ND	---	20.0	ug/L	1	01/22/24 20:30	EPA 8260D	
Acrylonitrile	ND	---	2.00	ug/L	1	01/22/24 20:30	EPA 8260D	
Benzene	ND	---	0.200	ug/L	1	01/22/24 20:30	EPA 8260D	
Bromobenzene	ND	---	0.500	ug/L	1	01/22/24 20:30	EPA 8260D	
Bromochloromethane	ND	---	1.00	ug/L	1	01/22/24 20:30	EPA 8260D	
Bromodichloromethane	ND	---	1.00	ug/L	1	01/22/24 20:30	EPA 8260D	
Bromoform	ND	---	1.00	ug/L	1	01/22/24 20:30	EPA 8260D	
Bromomethane	ND	---	5.00	ug/L	1	01/22/24 20:30	EPA 8260D	
2-Butanone (MEK)	ND	---	10.0	ug/L	1	01/22/24 20:30	EPA 8260D	
n-Butylbenzene	ND	---	1.00	ug/L	1	01/22/24 20:30	EPA 8260D	
sec-Butylbenzene	ND	---	1.00	ug/L	1	01/22/24 20:30	EPA 8260D	
tert-Butylbenzene	ND	---	1.00	ug/L	1	01/22/24 20:30	EPA 8260D	
Carbon disulfide	ND	---	10.0	ug/L	1	01/22/24 20:30	EPA 8260D	
Carbon tetrachloride	ND	---	1.00	ug/L	1	01/22/24 20:30	EPA 8260D	
Chlorobenzene	ND	---	0.500	ug/L	1	01/22/24 20:30	EPA 8260D	
Chloroethane	ND	---	5.00	ug/L	1	01/22/24 20:30	EPA 8260D	
Chloroform	ND	---	1.00	ug/L	1	01/22/24 20:30	EPA 8260D	
Chloromethane	17.1	---	5.00	ug/L	1	01/22/24 20:30	EPA 8260D	
2-Chlorotoluene	ND	---	1.00	ug/L	1	01/22/24 20:30	EPA 8260D	
4-Chlorotoluene	ND	---	1.00	ug/L	1	01/22/24 20:30	EPA 8260D	
Dibromochloromethane	ND	---	1.00	ug/L	1	01/22/24 20:30	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	---	5.00	ug/L	1	01/22/24 20:30	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	01/22/24 20:30	EPA 8260D	
Dibromomethane	ND	---	1.00	ug/L	1	01/22/24 20:30	EPA 8260D	
1,2-Dichlorobenzene	ND	---	0.500	ug/L	1	01/22/24 20:30	EPA 8260D	
1,3-Dichlorobenzene	ND	---	0.500	ug/L	1	01/22/24 20:30	EPA 8260D	
1,4-Dichlorobenzene	ND	---	0.500	ug/L	1	01/22/24 20:30	EPA 8260D	
Dichlorodifluoromethane	ND	---	1.00	ug/L	1	01/22/24 20:30	EPA 8260D	
1,1-Dichloroethane	ND	---	0.400	ug/L	1	01/22/24 20:30	EPA 8260D	

Apex Laboratories

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Philip Nerenberg, Lab Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Stantec Portland

601 SW 2nd Ave Suite 1400

Portland, OR 97204

Project: **Edgewood**Project Number: **185750631**Project Manager: **Patrick Vaughan****Report ID:****A4A1253 - 01 30 24 1356**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
HA-5 (A4A1253-02RE1)		Matrix: Water			Batch: 24A0599		CONT	
1,2-Dichloroethane (EDC)	ND	---	0.400	ug/L	1	01/22/24 20:30	EPA 8260D	
1,1-Dichloroethene	ND	---	0.400	ug/L	1	01/22/24 20:30	EPA 8260D	
cis-1,2-Dichloroethene	2.78	---	0.400	ug/L	1	01/22/24 20:30	EPA 8260D	
trans-1,2-Dichloroethene	ND	---	0.400	ug/L	1	01/22/24 20:30	EPA 8260D	
1,2-Dichloropropane	ND	---	0.500	ug/L	1	01/22/24 20:30	EPA 8260D	
1,3-Dichloropropane	ND	---	1.00	ug/L	1	01/22/24 20:30	EPA 8260D	
2,2-Dichloropropane	ND	---	1.00	ug/L	1	01/22/24 20:30	EPA 8260D	
1,1-Dichloropropene	ND	---	1.00	ug/L	1	01/22/24 20:30	EPA 8260D	
cis-1,3-Dichloropropene	ND	---	1.00	ug/L	1	01/22/24 20:30	EPA 8260D	
trans-1,3-Dichloropropene	ND	---	1.00	ug/L	1	01/22/24 20:30	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	01/22/24 20:30	EPA 8260D	
Hexachlorobutadiene	ND	---	5.00	ug/L	1	01/22/24 20:30	EPA 8260D	
2-Hexanone	ND	---	10.0	ug/L	1	01/22/24 20:30	EPA 8260D	
Isopropylbenzene	ND	---	1.00	ug/L	1	01/22/24 20:30	EPA 8260D	
4-Isopropyltoluene	ND	---	1.00	ug/L	1	01/22/24 20:30	EPA 8260D	
Methylene chloride	ND	---	10.0	ug/L	1	01/22/24 20:30	EPA 8260D	
4-Methyl-2-pentanone (MIBK)	ND	---	10.0	ug/L	1	01/22/24 20:30	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	01/22/24 20:30	EPA 8260D	
Naphthalene	ND	---	5.00	ug/L	1	01/22/24 20:30	EPA 8260D	
n-Propylbenzene	ND	---	0.500	ug/L	1	01/22/24 20:30	EPA 8260D	
Styrene	ND	---	1.00	ug/L	1	01/22/24 20:30	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	---	0.400	ug/L	1	01/22/24 20:30	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	---	0.500	ug/L	1	01/22/24 20:30	EPA 8260D	
Tetrachloroethene (PCE)	187	---	0.400	ug/L	1	01/22/24 20:30	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	01/22/24 20:30	EPA 8260D	
1,2,3-Trichlorobenzene	ND	---	2.00	ug/L	1	01/22/24 20:30	EPA 8260D	
1,2,4-Trichlorobenzene	ND	---	2.00	ug/L	1	01/22/24 20:30	EPA 8260D	
1,1,1-Trichloroethane	ND	---	0.400	ug/L	1	01/22/24 20:30	EPA 8260D	
1,1,2-Trichloroethane	ND	---	0.500	ug/L	1	01/22/24 20:30	EPA 8260D	
Trichloroethene (TCE)	18.5	---	0.400	ug/L	1	01/22/24 20:30	EPA 8260D	
Trichlorofluoromethane	ND	---	2.00	ug/L	1	01/22/24 20:30	EPA 8260D	
1,2,3-Trichloropropane	ND	---	1.00	ug/L	1	01/22/24 20:30	EPA 8260D	
1,2,4-Trimethylbenzene	ND	---	1.00	ug/L	1	01/22/24 20:30	EPA 8260D	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Stantec Portland

601 SW 2nd Ave Suite 1400

Portland, OR 97204

Project: **Edgewood**Project Number: **185750631**Project Manager: **Patrick Vaughan****Report ID:****A4A1253 - 01 30 24 1356**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
HA-5 (A4A1253-02RE1)		Matrix: Water			Batch: 24A0599		CONT	
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	01/22/24 20:30	EPA 8260D	
Vinyl chloride	ND	---	0.200	ug/L	1	01/22/24 20:30	EPA 8260D	
m,p-Xylene	ND	---	1.00	ug/L	1	01/22/24 20:30	EPA 8260D	
o-Xylene	ND	---	0.500	ug/L	1	01/22/24 20:30	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery:</i>	<i>107 %</i>	<i>Limits:</i>	<i>80-120 %</i>	<i>1</i>	<i>01/22/24 20:30</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>			<i>103 %</i>		<i>80-120 %</i>	<i>1</i>	<i>01/22/24 20:30</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>			<i>96 %</i>		<i>80-120 %</i>	<i>1</i>	<i>01/22/24 20:30</i>	<i>EPA 8260D</i>
CM-50669 (A4A1253-03RE1)		Matrix: Water			Batch: 24A0599		CONT	
Acetone	ND	---	20.0	ug/L	1	01/22/24 19:36	EPA 8260D	
Acrylonitrile	ND	---	2.00	ug/L	1	01/22/24 19:36	EPA 8260D	
Benzene	ND	---	0.200	ug/L	1	01/22/24 19:36	EPA 8260D	
Bromobenzene	ND	---	0.500	ug/L	1	01/22/24 19:36	EPA 8260D	
Bromochloromethane	ND	---	1.00	ug/L	1	01/22/24 19:36	EPA 8260D	
Bromodichloromethane	ND	---	1.00	ug/L	1	01/22/24 19:36	EPA 8260D	
Bromoform	ND	---	1.00	ug/L	1	01/22/24 19:36	EPA 8260D	
Bromomethane	ND	---	5.00	ug/L	1	01/22/24 19:36	EPA 8260D	
2-Butanone (MEK)	ND	---	10.0	ug/L	1	01/22/24 19:36	EPA 8260D	
n-Butylbenzene	ND	---	1.00	ug/L	1	01/22/24 19:36	EPA 8260D	
sec-Butylbenzene	ND	---	1.00	ug/L	1	01/22/24 19:36	EPA 8260D	
tert-Butylbenzene	ND	---	1.00	ug/L	1	01/22/24 19:36	EPA 8260D	
Carbon disulfide	ND	---	10.0	ug/L	1	01/22/24 19:36	EPA 8260D	
Carbon tetrachloride	ND	---	1.00	ug/L	1	01/22/24 19:36	EPA 8260D	
Chlorobenzene	ND	---	0.500	ug/L	1	01/22/24 19:36	EPA 8260D	
Chloroethane	ND	---	5.00	ug/L	1	01/22/24 19:36	EPA 8260D	
Chloroform	ND	---	1.00	ug/L	1	01/22/24 19:36	EPA 8260D	
Chloromethane	ND	---	5.00	ug/L	1	01/22/24 19:36	EPA 8260D	
2-Chlorotoluene	ND	---	1.00	ug/L	1	01/22/24 19:36	EPA 8260D	
4-Chlorotoluene	ND	---	1.00	ug/L	1	01/22/24 19:36	EPA 8260D	
Dibromochloromethane	ND	---	1.00	ug/L	1	01/22/24 19:36	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	---	5.00	ug/L	1	01/22/24 19:36	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	01/22/24 19:36	EPA 8260D	
Dibromomethane	ND	---	1.00	ug/L	1	01/22/24 19:36	EPA 8260D	

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**ANALYTICAL REPORT****Apex Laboratories, LLC**6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**Stantec Portland**601 SW 2nd Ave Suite 1400
Portland, OR 97204Project: **Edgewood**Project Number: **185750631**Project Manager: **Patrick Vaughan****Report ID:****A4A1253 - 01 30 24 1356****ANALYTICAL SAMPLE RESULTS****Volatile Organic Compounds by EPA 8260D**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
CM-50669 (A4A1253-03RE1)				Matrix: Water		Batch: 24A0599		CONT
1,2-Dichlorobenzene	ND	---	0.500	ug/L	1	01/22/24 19:36	EPA 8260D	
1,3-Dichlorobenzene	ND	---	0.500	ug/L	1	01/22/24 19:36	EPA 8260D	
1,4-Dichlorobenzene	ND	---	0.500	ug/L	1	01/22/24 19:36	EPA 8260D	
Dichlorodifluoromethane	ND	---	1.00	ug/L	1	01/22/24 19:36	EPA 8260D	
1,1-Dichloroethane	ND	---	0.400	ug/L	1	01/22/24 19:36	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	---	0.400	ug/L	1	01/22/24 19:36	EPA 8260D	
1,1-Dichloroethene	ND	---	0.400	ug/L	1	01/22/24 19:36	EPA 8260D	
cis-1,2-Dichloroethene	ND	---	0.400	ug/L	1	01/22/24 19:36	EPA 8260D	
trans-1,2-Dichloroethene	ND	---	0.400	ug/L	1	01/22/24 19:36	EPA 8260D	
1,2-Dichloropropane	ND	---	0.500	ug/L	1	01/22/24 19:36	EPA 8260D	
1,3-Dichloropropane	ND	---	1.00	ug/L	1	01/22/24 19:36	EPA 8260D	
2,2-Dichloropropane	ND	---	1.00	ug/L	1	01/22/24 19:36	EPA 8260D	
1,1-Dichloropropene	ND	---	1.00	ug/L	1	01/22/24 19:36	EPA 8260D	
cis-1,3-Dichloropropene	ND	---	1.00	ug/L	1	01/22/24 19:36	EPA 8260D	
trans-1,3-Dichloropropene	ND	---	1.00	ug/L	1	01/22/24 19:36	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	01/22/24 19:36	EPA 8260D	
Hexachlorobutadiene	ND	---	5.00	ug/L	1	01/22/24 19:36	EPA 8260D	
2-Hexanone	ND	---	10.0	ug/L	1	01/22/24 19:36	EPA 8260D	
Isopropylbenzene	ND	---	1.00	ug/L	1	01/22/24 19:36	EPA 8260D	
4-Isopropyltoluene	ND	---	1.00	ug/L	1	01/22/24 19:36	EPA 8260D	
Methylene chloride	ND	---	10.0	ug/L	1	01/22/24 19:36	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	---	10.0	ug/L	1	01/22/24 19:36	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	01/22/24 19:36	EPA 8260D	
Naphthalene	ND	---	5.00	ug/L	1	01/22/24 19:36	EPA 8260D	
n-Propylbenzene	ND	---	0.500	ug/L	1	01/22/24 19:36	EPA 8260D	
Styrene	ND	---	1.00	ug/L	1	01/22/24 19:36	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	---	0.400	ug/L	1	01/22/24 19:36	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	---	0.500	ug/L	1	01/22/24 19:36	EPA 8260D	
Tetrachloroethene (PCE)	ND	---	0.400	ug/L	1	01/22/24 19:36	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	01/22/24 19:36	EPA 8260D	
1,2,3-Trichlorobenzene	ND	---	2.00	ug/L	1	01/22/24 19:36	EPA 8260D	
1,2,4-Trichlorobenzene	ND	---	2.00	ug/L	1	01/22/24 19:36	EPA 8260D	
1,1,1-Trichloroethane	ND	---	0.400	ug/L	1	01/22/24 19:36	EPA 8260D	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Stantec Portland

601 SW 2nd Ave Suite 1400

Portland, OR 97204

Project: **Edgewood**Project Number: **185750631**Project Manager: **Patrick Vaughan****Report ID:****A4A1253 - 01 30 24 1356**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
CM-50669 (A4A1253-03RE1)		Matrix: Water			Batch: 24A0599		CONT	
1,1,2-Trichloroethane	ND	---	0.500	ug/L	1	01/22/24 19:36	EPA 8260D	
Trichloroethene (TCE)	ND	---	0.400	ug/L	1	01/22/24 19:36	EPA 8260D	
Trichlorofluoromethane	ND	---	2.00	ug/L	1	01/22/24 19:36	EPA 8260D	
1,2,3-Trichloropropane	ND	---	1.00	ug/L	1	01/22/24 19:36	EPA 8260D	
1,2,4-Trimethylbenzene	ND	---	1.00	ug/L	1	01/22/24 19:36	EPA 8260D	
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	01/22/24 19:36	EPA 8260D	
Vinyl chloride	ND	---	0.200	ug/L	1	01/22/24 19:36	EPA 8260D	
m,p-Xylene	ND	---	1.00	ug/L	1	01/22/24 19:36	EPA 8260D	
o-Xylene	ND	---	0.500	ug/L	1	01/22/24 19:36	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery:</i>	105 %	<i>Limits:</i>	80-120 %	1	01/22/24 19:36	EPA 8260D
<i>Toluene-d8 (Surr)</i>			104 %		80-120 %	1	01/22/24 19:36	EPA 8260D
<i>4-Bromofluorobenzene (Surr)</i>			95 %		80-120 %	1	01/22/24 19:36	EPA 8260D
CM-68720 (A4A1253-04RE1)		Matrix: Water			Batch: 24A0599		CONT	
Acetone	ND	---	20.0	ug/L	1	01/22/24 20:03	EPA 8260D	
Acrylonitrile	ND	---	2.00	ug/L	1	01/22/24 20:03	EPA 8260D	
Benzene	ND	---	0.200	ug/L	1	01/22/24 20:03	EPA 8260D	
Bromobenzene	ND	---	0.500	ug/L	1	01/22/24 20:03	EPA 8260D	
Bromochloromethane	ND	---	1.00	ug/L	1	01/22/24 20:03	EPA 8260D	
Bromodichloromethane	ND	---	1.00	ug/L	1	01/22/24 20:03	EPA 8260D	
Bromoform	ND	---	1.00	ug/L	1	01/22/24 20:03	EPA 8260D	
Bromomethane	ND	---	5.00	ug/L	1	01/22/24 20:03	EPA 8260D	
2-Butanone (MEK)	ND	---	10.0	ug/L	1	01/22/24 20:03	EPA 8260D	
n-Butylbenzene	ND	---	1.00	ug/L	1	01/22/24 20:03	EPA 8260D	
sec-Butylbenzene	ND	---	1.00	ug/L	1	01/22/24 20:03	EPA 8260D	
tert-Butylbenzene	ND	---	1.00	ug/L	1	01/22/24 20:03	EPA 8260D	
Carbon disulfide	ND	---	10.0	ug/L	1	01/22/24 20:03	EPA 8260D	
Carbon tetrachloride	ND	---	1.00	ug/L	1	01/22/24 20:03	EPA 8260D	
Chlorobenzene	ND	---	0.500	ug/L	1	01/22/24 20:03	EPA 8260D	
Chloroethane	ND	---	5.00	ug/L	1	01/22/24 20:03	EPA 8260D	
Chloroform	ND	---	1.00	ug/L	1	01/22/24 20:03	EPA 8260D	
Chloromethane	10.1	---	5.00	ug/L	1	01/22/24 20:03	EPA 8260D	
2-Chlorotoluene	ND	---	1.00	ug/L	1	01/22/24 20:03	EPA 8260D	

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**ANALYTICAL REPORT****Apex Laboratories, LLC**6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**Stantec Portland**
601 SW 2nd Ave Suite 1400
Portland, OR 97204Project: **Edgewood**
Project Number: **185750631**
Project Manager: **Patrick Vaughan****Report ID:**
A4A1253 - 01 30 24 1356**ANALYTICAL SAMPLE RESULTS****Volatile Organic Compounds by EPA 8260D**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
CM-68720 (A4A1253-04RE1)				Matrix: Water		Batch: 24A0599		CONT
4-Chlorotoluene	ND	---	1.00	ug/L	1	01/22/24 20:03	EPA 8260D	
Dibromochloromethane	ND	---	1.00	ug/L	1	01/22/24 20:03	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	---	5.00	ug/L	1	01/22/24 20:03	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	01/22/24 20:03	EPA 8260D	
Dibromomethane	ND	---	1.00	ug/L	1	01/22/24 20:03	EPA 8260D	
1,2-Dichlorobenzene	ND	---	0.500	ug/L	1	01/22/24 20:03	EPA 8260D	
1,3-Dichlorobenzene	ND	---	0.500	ug/L	1	01/22/24 20:03	EPA 8260D	
1,4-Dichlorobenzene	ND	---	0.500	ug/L	1	01/22/24 20:03	EPA 8260D	
Dichlorodifluoromethane	ND	---	1.00	ug/L	1	01/22/24 20:03	EPA 8260D	
1,1-Dichloroethane	ND	---	0.400	ug/L	1	01/22/24 20:03	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	---	0.400	ug/L	1	01/22/24 20:03	EPA 8260D	
1,1-Dichloroethene	ND	---	0.400	ug/L	1	01/22/24 20:03	EPA 8260D	
cis-1,2-Dichloroethene	ND	---	0.400	ug/L	1	01/22/24 20:03	EPA 8260D	
trans-1,2-Dichloroethene	ND	---	0.400	ug/L	1	01/22/24 20:03	EPA 8260D	
1,2-Dichloropropane	ND	---	0.500	ug/L	1	01/22/24 20:03	EPA 8260D	
1,3-Dichloropropane	ND	---	1.00	ug/L	1	01/22/24 20:03	EPA 8260D	
2,2-Dichloropropane	ND	---	1.00	ug/L	1	01/22/24 20:03	EPA 8260D	
1,1-Dichloropropene	ND	---	1.00	ug/L	1	01/22/24 20:03	EPA 8260D	
cis-1,3-Dichloropropene	ND	---	1.00	ug/L	1	01/22/24 20:03	EPA 8260D	
trans-1,3-Dichloropropene	ND	---	1.00	ug/L	1	01/22/24 20:03	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	01/22/24 20:03	EPA 8260D	
Hexachlorobutadiene	ND	---	5.00	ug/L	1	01/22/24 20:03	EPA 8260D	
2-Hexanone	ND	---	10.0	ug/L	1	01/22/24 20:03	EPA 8260D	
Isopropylbenzene	ND	---	1.00	ug/L	1	01/22/24 20:03	EPA 8260D	
4-Isopropyltoluene	ND	---	1.00	ug/L	1	01/22/24 20:03	EPA 8260D	
Methylene chloride	ND	---	10.0	ug/L	1	01/22/24 20:03	EPA 8260D	
4-Methyl-2-pentanone (MIBK)	ND	---	10.0	ug/L	1	01/22/24 20:03	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	01/22/24 20:03	EPA 8260D	
Naphthalene	ND	---	5.00	ug/L	1	01/22/24 20:03	EPA 8260D	
n-Propylbenzene	ND	---	0.500	ug/L	1	01/22/24 20:03	EPA 8260D	
Styrene	ND	---	1.00	ug/L	1	01/22/24 20:03	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	---	0.400	ug/L	1	01/22/24 20:03	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	---	0.500	ug/L	1	01/22/24 20:03	EPA 8260D	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Stantec Portland

601 SW 2nd Ave Suite 1400

Portland, OR 97204

Project: **Edgewood**Project Number: **185750631**Project Manager: **Patrick Vaughan****Report ID:****A4A1253 - 01 30 24 1356**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
CM-68720 (A4A1253-04RE1)		Matrix: Water			Batch: 24A0599		CONT	
Tetrachloroethene (PCE)	ND	---	0.400	ug/L	1	01/22/24 20:03	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	01/22/24 20:03	EPA 8260D	
1,2,3-Trichlorobenzene	ND	---	2.00	ug/L	1	01/22/24 20:03	EPA 8260D	
1,2,4-Trichlorobenzene	ND	---	2.00	ug/L	1	01/22/24 20:03	EPA 8260D	
1,1,1-Trichloroethane	ND	---	0.400	ug/L	1	01/22/24 20:03	EPA 8260D	
1,1,2-Trichloroethane	ND	---	0.500	ug/L	1	01/22/24 20:03	EPA 8260D	
Trichloroethene (TCE)	ND	---	0.400	ug/L	1	01/22/24 20:03	EPA 8260D	
Trichlorofluoromethane	ND	---	2.00	ug/L	1	01/22/24 20:03	EPA 8260D	
1,2,3-Trichloropropane	ND	---	1.00	ug/L	1	01/22/24 20:03	EPA 8260D	
1,2,4-Trimethylbenzene	ND	---	1.00	ug/L	1	01/22/24 20:03	EPA 8260D	
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	01/22/24 20:03	EPA 8260D	
Vinyl chloride	ND	---	0.200	ug/L	1	01/22/24 20:03	EPA 8260D	
m,p-Xylene	ND	---	1.00	ug/L	1	01/22/24 20:03	EPA 8260D	
o-Xylene	ND	---	0.500	ug/L	1	01/22/24 20:03	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 103 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>01/22/24 20:03</i>	<i>EPA 8260D</i>	
<i>Toluene-d8 (Surr)</i>		<i>104 %</i>		<i>80-120 %</i>	<i>1</i>	<i>01/22/24 20:03</i>	<i>EPA 8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>		<i>96 %</i>		<i>80-120 %</i>	<i>1</i>	<i>01/22/24 20:03</i>	<i>EPA 8260D</i>	
HA-4 (A4A1253-05RE1)		Matrix: Water			Batch: 24A0653		CONT	
Acetone	ND	---	20.0	ug/L	1	01/23/24 16:59	EPA 8260D	
Acrylonitrile	ND	---	2.00	ug/L	1	01/23/24 16:59	EPA 8260D	
Benzene	ND	---	0.200	ug/L	1	01/23/24 16:59	EPA 8260D	
Bromobenzene	ND	---	0.500	ug/L	1	01/23/24 16:59	EPA 8260D	
Bromochloromethane	ND	---	1.00	ug/L	1	01/23/24 16:59	EPA 8260D	
Bromodichloromethane	ND	---	1.00	ug/L	1	01/23/24 16:59	EPA 8260D	
Bromoform	ND	---	1.00	ug/L	1	01/23/24 16:59	EPA 8260D	
Bromomethane	ND	---	5.00	ug/L	1	01/23/24 16:59	EPA 8260D	
2-Butanone (MEK)	ND	---	10.0	ug/L	1	01/23/24 16:59	EPA 8260D	
n-Butylbenzene	ND	---	1.00	ug/L	1	01/23/24 16:59	EPA 8260D	
sec-Butylbenzene	ND	---	1.00	ug/L	1	01/23/24 16:59	EPA 8260D	
tert-Butylbenzene	ND	---	1.00	ug/L	1	01/23/24 16:59	EPA 8260D	
Carbon disulfide	ND	---	10.0	ug/L	1	01/23/24 16:59	EPA 8260D	
Carbon tetrachloride	ND	---	1.00	ug/L	1	01/23/24 16:59	EPA 8260D	

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Philip Nerenberg, Lab Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Stantec Portland

601 SW 2nd Ave Suite 1400

Portland, OR 97204

Project: **Edgewood**Project Number: **185750631**Project Manager: **Patrick Vaughan****Report ID:****A4A1253 - 01 30 24 1356**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
HA-4 (A4A1253-05RE1)		Matrix: Water			Batch: 24A0653		CONT	
Chlorobenzene	ND	---	0.500	ug/L	1	01/23/24 16:59	EPA 8260D	
Chloroethane	ND	---	5.00	ug/L	1	01/23/24 16:59	EPA 8260D	
Chloroform	ND	---	1.00	ug/L	1	01/23/24 16:59	EPA 8260D	
Chloromethane	32.5	---	5.00	ug/L	1	01/23/24 16:59	EPA 8260D	
2-Chlorotoluene	ND	---	1.00	ug/L	1	01/23/24 16:59	EPA 8260D	
4-Chlorotoluene	ND	---	1.00	ug/L	1	01/23/24 16:59	EPA 8260D	
Dibromochloromethane	ND	---	1.00	ug/L	1	01/23/24 16:59	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	---	5.00	ug/L	1	01/23/24 16:59	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	01/23/24 16:59	EPA 8260D	
Dibromomethane	ND	---	1.00	ug/L	1	01/23/24 16:59	EPA 8260D	
1,2-Dichlorobenzene	ND	---	0.500	ug/L	1	01/23/24 16:59	EPA 8260D	
1,3-Dichlorobenzene	ND	---	0.500	ug/L	1	01/23/24 16:59	EPA 8260D	
1,4-Dichlorobenzene	ND	---	0.500	ug/L	1	01/23/24 16:59	EPA 8260D	
Dichlorodifluoromethane	ND	---	1.00	ug/L	1	01/23/24 16:59	EPA 8260D	
1,1-Dichloroethane	ND	---	0.400	ug/L	1	01/23/24 16:59	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	---	0.400	ug/L	1	01/23/24 16:59	EPA 8260D	
1,1-Dichloroethene	ND	---	0.400	ug/L	1	01/23/24 16:59	EPA 8260D	
cis-1,2-Dichloroethene	ND	---	0.400	ug/L	1	01/23/24 16:59	EPA 8260D	
trans-1,2-Dichloroethene	ND	---	0.400	ug/L	1	01/23/24 16:59	EPA 8260D	
1,2-Dichloropropane	ND	---	0.500	ug/L	1	01/23/24 16:59	EPA 8260D	
1,3-Dichloropropane	ND	---	1.00	ug/L	1	01/23/24 16:59	EPA 8260D	
2,2-Dichloropropane	ND	---	1.00	ug/L	1	01/23/24 16:59	EPA 8260D	
1,1-Dichloropropene	ND	---	1.00	ug/L	1	01/23/24 16:59	EPA 8260D	
cis-1,3-Dichloropropene	ND	---	1.00	ug/L	1	01/23/24 16:59	EPA 8260D	
trans-1,3-Dichloropropene	ND	---	1.00	ug/L	1	01/23/24 16:59	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	01/23/24 16:59	EPA 8260D	
Hexachlorobutadiene	ND	---	5.00	ug/L	1	01/23/24 16:59	EPA 8260D	
2-Hexanone	ND	---	10.0	ug/L	1	01/23/24 16:59	EPA 8260D	
Isopropylbenzene	ND	---	1.00	ug/L	1	01/23/24 16:59	EPA 8260D	
4-Isopropyltoluene	ND	---	1.00	ug/L	1	01/23/24 16:59	EPA 8260D	
Methylene chloride	ND	---	10.0	ug/L	1	01/23/24 16:59	EPA 8260D	
4-Methyl-2-pentanone (MIBK)	ND	---	10.0	ug/L	1	01/23/24 16:59	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	01/23/24 16:59	EPA 8260D	

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Philip Nerenberg, Lab Director

Page 13 of 69



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062Stantec Portland
601 SW 2nd Ave Suite 1400
Portland, OR 97204Project: **Edgewood**
Project Number: **185750631**
Project Manager: **Patrick Vaughan****Report ID:**
A4A1253 - 01 30 24 1356

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
HA-4 (A4A1253-05RE1)		Matrix: Water			Batch: 24A0653		CONT	
Naphthalene	ND	---	5.00	ug/L	1	01/23/24 16:59	EPA 8260D	
n-Propylbenzene	ND	---	0.500	ug/L	1	01/23/24 16:59	EPA 8260D	
Styrene	ND	---	1.00	ug/L	1	01/23/24 16:59	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	---	0.400	ug/L	1	01/23/24 16:59	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	---	0.500	ug/L	1	01/23/24 16:59	EPA 8260D	
Tetrachloroethene (PCE)	48.4	---	0.400	ug/L	1	01/23/24 16:59	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	01/23/24 16:59	EPA 8260D	
1,2,3-Trichlorobenzene	ND	---	2.00	ug/L	1	01/23/24 16:59	EPA 8260D	
1,2,4-Trichlorobenzene	ND	---	2.00	ug/L	1	01/23/24 16:59	EPA 8260D	
1,1,1-Trichloroethane	ND	---	0.400	ug/L	1	01/23/24 16:59	EPA 8260D	
1,1,2-Trichloroethane	ND	---	0.500	ug/L	1	01/23/24 16:59	EPA 8260D	
Trichloroethene (TCE)	1.31	---	0.400	ug/L	1	01/23/24 16:59	EPA 8260D	
Trichlorofluoromethane	ND	---	2.00	ug/L	1	01/23/24 16:59	EPA 8260D	
1,2,3-Trichloropropane	ND	---	1.00	ug/L	1	01/23/24 16:59	EPA 8260D	
1,2,4-Trimethylbenzene	ND	---	1.00	ug/L	1	01/23/24 16:59	EPA 8260D	
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	01/23/24 16:59	EPA 8260D	
Vinyl chloride	ND	---	0.200	ug/L	1	01/23/24 16:59	EPA 8260D	
m,p-Xylene	ND	---	1.00	ug/L	1	01/23/24 16:59	EPA 8260D	
o-Xylene	ND	---	0.500	ug/L	1	01/23/24 16:59	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 107 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>01/23/24 16:59</i>	<i>EPA 8260D</i>	
<i>Toluene-d8 (Surr)</i>		<i>103 %</i>		<i>80-120 %</i>	<i>1</i>	<i>01/23/24 16:59</i>	<i>EPA 8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>		<i>91 %</i>		<i>80-120 %</i>	<i>1</i>	<i>01/23/24 16:59</i>	<i>EPA 8260D</i>	
HA-X (A4A1253-06RE1)		Matrix: Water			Batch: 24A0653		CONT	
Acetone	ND	---	20.0	ug/L	1	01/23/24 17:27	EPA 8260D	
Acrylonitrile	ND	---	2.00	ug/L	1	01/23/24 17:27	EPA 8260D	
Benzene	ND	---	0.200	ug/L	1	01/23/24 17:27	EPA 8260D	
Bromobenzene	ND	---	0.500	ug/L	1	01/23/24 17:27	EPA 8260D	
Bromochloromethane	ND	---	1.00	ug/L	1	01/23/24 17:27	EPA 8260D	
Bromodichloromethane	ND	---	1.00	ug/L	1	01/23/24 17:27	EPA 8260D	
Bromoform	ND	---	1.00	ug/L	1	01/23/24 17:27	EPA 8260D	
Bromomethane	ND	---	5.00	ug/L	1	01/23/24 17:27	EPA 8260D	
2-Butanone (MEK)	ND	---	10.0	ug/L	1	01/23/24 17:27	EPA 8260D	

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Philip Nerenberg, Lab Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062Stantec Portland
601 SW 2nd Ave Suite 1400
Portland, OR 97204Project: **Edgewood**
Project Number: **185750631**
Project Manager: **Patrick Vaughan****Report ID:**
A4A1253 - 01 30 24 1356

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
HA-X (A4A1253-06RE1)		Matrix: Water			Batch: 24A0653		CONT	
n-Butylbenzene	ND	---	1.00	ug/L	1	01/23/24 17:27	EPA 8260D	
sec-Butylbenzene	ND	---	1.00	ug/L	1	01/23/24 17:27	EPA 8260D	
tert-Butylbenzene	ND	---	1.00	ug/L	1	01/23/24 17:27	EPA 8260D	
Carbon disulfide	ND	---	10.0	ug/L	1	01/23/24 17:27	EPA 8260D	
Carbon tetrachloride	ND	---	1.00	ug/L	1	01/23/24 17:27	EPA 8260D	
Chlorobenzene	ND	---	0.500	ug/L	1	01/23/24 17:27	EPA 8260D	
Chloroethane	ND	---	5.00	ug/L	1	01/23/24 17:27	EPA 8260D	
Chloroform	ND	---	1.00	ug/L	1	01/23/24 17:27	EPA 8260D	
Chloromethane	ND	---	5.00	ug/L	1	01/23/24 17:27	EPA 8260D	
2-Chlorotoluene	ND	---	1.00	ug/L	1	01/23/24 17:27	EPA 8260D	
4-Chlorotoluene	ND	---	1.00	ug/L	1	01/23/24 17:27	EPA 8260D	
Dibromochloromethane	ND	---	1.00	ug/L	1	01/23/24 17:27	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	---	5.00	ug/L	1	01/23/24 17:27	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	01/23/24 17:27	EPA 8260D	
Dibromomethane	ND	---	1.00	ug/L	1	01/23/24 17:27	EPA 8260D	
1,2-Dichlorobenzene	ND	---	0.500	ug/L	1	01/23/24 17:27	EPA 8260D	
1,3-Dichlorobenzene	ND	---	0.500	ug/L	1	01/23/24 17:27	EPA 8260D	
1,4-Dichlorobenzene	ND	---	0.500	ug/L	1	01/23/24 17:27	EPA 8260D	
Dichlorodifluoromethane	ND	---	1.00	ug/L	1	01/23/24 17:27	EPA 8260D	
1,1-Dichloroethane	ND	---	0.400	ug/L	1	01/23/24 17:27	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	---	0.400	ug/L	1	01/23/24 17:27	EPA 8260D	
1,1-Dichloroethene	ND	---	0.400	ug/L	1	01/23/24 17:27	EPA 8260D	
cis-1,2-Dichloroethene	ND	---	0.400	ug/L	1	01/23/24 17:27	EPA 8260D	
trans-1,2-Dichloroethene	ND	---	0.400	ug/L	1	01/23/24 17:27	EPA 8260D	
1,2-Dichloropropane	ND	---	0.500	ug/L	1	01/23/24 17:27	EPA 8260D	
1,3-Dichloropropane	ND	---	1.00	ug/L	1	01/23/24 17:27	EPA 8260D	
2,2-Dichloropropane	ND	---	1.00	ug/L	1	01/23/24 17:27	EPA 8260D	
1,1-Dichloropropene	ND	---	1.00	ug/L	1	01/23/24 17:27	EPA 8260D	
cis-1,3-Dichloropropene	ND	---	1.00	ug/L	1	01/23/24 17:27	EPA 8260D	
trans-1,3-Dichloropropene	ND	---	1.00	ug/L	1	01/23/24 17:27	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	01/23/24 17:27	EPA 8260D	
Hexachlorobutadiene	ND	---	5.00	ug/L	1	01/23/24 17:27	EPA 8260D	
2-Hexanone	ND	---	10.0	ug/L	1	01/23/24 17:27	EPA 8260D	

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Philip Nerenberg, Lab Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062Stantec Portland601 SW 2nd Ave Suite 1400
Portland, OR 97204Project: Edgewood

Project Number: 185750631

Project Manager: Patrick Vaughan

Report ID:

A4A1253 - 01 30 24 1356

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
HA-X (A4A1253-06RE1)		Matrix: Water			Batch: 24A0653		CONT	
Isopropylbenzene	ND	---	1.00	ug/L	1	01/23/24 17:27	EPA 8260D	
4-Isopropyltoluene	ND	---	1.00	ug/L	1	01/23/24 17:27	EPA 8260D	
Methylene chloride	ND	---	10.0	ug/L	1	01/23/24 17:27	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	---	10.0	ug/L	1	01/23/24 17:27	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	01/23/24 17:27	EPA 8260D	
Naphthalene	ND	---	5.00	ug/L	1	01/23/24 17:27	EPA 8260D	
n-Propylbenzene	ND	---	0.500	ug/L	1	01/23/24 17:27	EPA 8260D	
Styrene	ND	---	1.00	ug/L	1	01/23/24 17:27	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	---	0.400	ug/L	1	01/23/24 17:27	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	---	0.500	ug/L	1	01/23/24 17:27	EPA 8260D	
Tetrachloroethene (PCE)	50.4	---	0.400	ug/L	1	01/23/24 17:27	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	01/23/24 17:27	EPA 8260D	
1,2,3-Trichlorobenzene	ND	---	2.00	ug/L	1	01/23/24 17:27	EPA 8260D	
1,2,4-Trichlorobenzene	ND	---	2.00	ug/L	1	01/23/24 17:27	EPA 8260D	
1,1,1-Trichloroethane	ND	---	0.400	ug/L	1	01/23/24 17:27	EPA 8260D	
1,1,2-Trichloroethane	ND	---	0.500	ug/L	1	01/23/24 17:27	EPA 8260D	
Trichloroethene (TCE)	1.29	---	0.400	ug/L	1	01/23/24 17:27	EPA 8260D	
Trichlorofluoromethane	ND	---	2.00	ug/L	1	01/23/24 17:27	EPA 8260D	
1,2,3-Trichloropropane	ND	---	1.00	ug/L	1	01/23/24 17:27	EPA 8260D	
1,2,4-Trimethylbenzene	ND	---	1.00	ug/L	1	01/23/24 17:27	EPA 8260D	
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	01/23/24 17:27	EPA 8260D	
Vinyl chloride	ND	---	0.200	ug/L	1	01/23/24 17:27	EPA 8260D	
m,p-Xylene	ND	---	1.00	ug/L	1	01/23/24 17:27	EPA 8260D	
o-Xylene	ND	---	0.500	ug/L	1	01/23/24 17:27	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery:</i>	106 %	<i>Limits:</i>	80-120 %	1	01/23/24 17:27	EPA 8260D
<i>Toluene-d8 (Surr)</i>			102 %		80-120 %	1	01/23/24 17:27	EPA 8260D
<i>4-Bromofluorobenzene (Surr)</i>			91 %		80-120 %	1	01/23/24 17:27	EPA 8260D

HA-2 (A4A1253-07RE1)**Matrix: Water****Batch: 24A0653****CONT**

Acetone	ND	---	20.0	ug/L	1	01/23/24 17:54	EPA 8260D
Acrylonitrile	ND	---	2.00	ug/L	1	01/23/24 17:54	EPA 8260D
Benzene	ND	---	0.200	ug/L	1	01/23/24 17:54	EPA 8260D
Bromobenzene	ND	---	0.500	ug/L	1	01/23/24 17:54	EPA 8260D

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Philip Nerenberg, Lab Director

**ANALYTICAL REPORT****Apex Laboratories, LLC**6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**Stantec Portland**601 SW 2nd Ave Suite 1400
Portland, OR 97204Project: **Edgewood**Project Number: **185750631**Project Manager: **Patrick Vaughan****Report ID:****A4A1253 - 01 30 24 1356****ANALYTICAL SAMPLE RESULTS****Volatile Organic Compounds by EPA 8260D**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
HA-2 (A4A1253-07RE1)		Matrix: Water			Batch: 24A0653		CONT	
Bromochloromethane	ND	---	1.00	ug/L	1	01/23/24 17:54	EPA 8260D	
Bromodichloromethane	ND	---	1.00	ug/L	1	01/23/24 17:54	EPA 8260D	
Bromoform	ND	---	1.00	ug/L	1	01/23/24 17:54	EPA 8260D	
Bromomethane	ND	---	5.00	ug/L	1	01/23/24 17:54	EPA 8260D	
2-Butanone (MEK)	ND	---	10.0	ug/L	1	01/23/24 17:54	EPA 8260D	
n-Butylbenzene	ND	---	1.00	ug/L	1	01/23/24 17:54	EPA 8260D	
sec-Butylbenzene	ND	---	1.00	ug/L	1	01/23/24 17:54	EPA 8260D	
tert-Butylbenzene	ND	---	1.00	ug/L	1	01/23/24 17:54	EPA 8260D	
Carbon disulfide	ND	---	10.0	ug/L	1	01/23/24 17:54	EPA 8260D	
Carbon tetrachloride	ND	---	1.00	ug/L	1	01/23/24 17:54	EPA 8260D	
Chlorobenzene	ND	---	0.500	ug/L	1	01/23/24 17:54	EPA 8260D	
Chloroethane	ND	---	5.00	ug/L	1	01/23/24 17:54	EPA 8260D	
Chloroform	ND	---	1.00	ug/L	1	01/23/24 17:54	EPA 8260D	
Chloromethane	ND	---	5.00	ug/L	1	01/23/24 17:54	EPA 8260D	
2-Chlorotoluene	ND	---	1.00	ug/L	1	01/23/24 17:54	EPA 8260D	
4-Chlorotoluene	ND	---	1.00	ug/L	1	01/23/24 17:54	EPA 8260D	
Dibromochloromethane	ND	---	1.00	ug/L	1	01/23/24 17:54	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	---	5.00	ug/L	1	01/23/24 17:54	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	01/23/24 17:54	EPA 8260D	
Dibromomethane	ND	---	1.00	ug/L	1	01/23/24 17:54	EPA 8260D	
1,2-Dichlorobenzene	ND	---	0.500	ug/L	1	01/23/24 17:54	EPA 8260D	
1,3-Dichlorobenzene	ND	---	0.500	ug/L	1	01/23/24 17:54	EPA 8260D	
1,4-Dichlorobenzene	ND	---	0.500	ug/L	1	01/23/24 17:54	EPA 8260D	
Dichlorodifluoromethane	ND	---	1.00	ug/L	1	01/23/24 17:54	EPA 8260D	
1,1-Dichloroethane	ND	---	0.400	ug/L	1	01/23/24 17:54	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	---	0.400	ug/L	1	01/23/24 17:54	EPA 8260D	
1,1-Dichloroethene	ND	---	0.400	ug/L	1	01/23/24 17:54	EPA 8260D	
cis-1,2-Dichloroethene	ND	---	0.400	ug/L	1	01/23/24 17:54	EPA 8260D	
trans-1,2-Dichloroethene	ND	---	0.400	ug/L	1	01/23/24 17:54	EPA 8260D	
1,2-Dichloropropane	ND	---	0.500	ug/L	1	01/23/24 17:54	EPA 8260D	
1,3-Dichloropropane	ND	---	1.00	ug/L	1	01/23/24 17:54	EPA 8260D	
2,2-Dichloropropane	ND	---	1.00	ug/L	1	01/23/24 17:54	EPA 8260D	
1,1-Dichloropropene	ND	---	1.00	ug/L	1	01/23/24 17:54	EPA 8260D	

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Philip Nerenberg, Lab Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062Stantec Portland
601 SW 2nd Ave Suite 1400
Portland, OR 97204Project: **Edgewood**
Project Number: **185750631**
Project Manager: **Patrick Vaughan****Report ID:**
A4A1253 - 01 30 24 1356

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
HA-2 (A4A1253-07RE1)				Matrix: Water		Batch: 24A0653		CONT
cis-1,3-Dichloropropene	ND	---	1.00	ug/L	1	01/23/24 17:54	EPA 8260D	
trans-1,3-Dichloropropene	ND	---	1.00	ug/L	1	01/23/24 17:54	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	01/23/24 17:54	EPA 8260D	
Hexachlorobutadiene	ND	---	5.00	ug/L	1	01/23/24 17:54	EPA 8260D	
2-Hexanone	ND	---	10.0	ug/L	1	01/23/24 17:54	EPA 8260D	
Isopropylbenzene	ND	---	1.00	ug/L	1	01/23/24 17:54	EPA 8260D	
4-Isopropyltoluene	ND	---	1.00	ug/L	1	01/23/24 17:54	EPA 8260D	
Methylene chloride	ND	---	10.0	ug/L	1	01/23/24 17:54	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	---	10.0	ug/L	1	01/23/24 17:54	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	01/23/24 17:54	EPA 8260D	
Naphthalene	ND	---	5.00	ug/L	1	01/23/24 17:54	EPA 8260D	
n-Propylbenzene	ND	---	0.500	ug/L	1	01/23/24 17:54	EPA 8260D	
Styrene	ND	---	1.00	ug/L	1	01/23/24 17:54	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	---	0.400	ug/L	1	01/23/24 17:54	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	---	0.500	ug/L	1	01/23/24 17:54	EPA 8260D	
Tetrachloroethene (PCE)	15.8	---	0.400	ug/L	1	01/23/24 17:54	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	01/23/24 17:54	EPA 8260D	
1,2,3-Trichlorobenzene	ND	---	2.00	ug/L	1	01/23/24 17:54	EPA 8260D	
1,2,4-Trichlorobenzene	ND	---	2.00	ug/L	1	01/23/24 17:54	EPA 8260D	
1,1,1-Trichloroethane	ND	---	0.400	ug/L	1	01/23/24 17:54	EPA 8260D	
1,1,2-Trichloroethane	ND	---	0.500	ug/L	1	01/23/24 17:54	EPA 8260D	
Trichloroethene (TCE)	ND	---	0.400	ug/L	1	01/23/24 17:54	EPA 8260D	
Trichlorofluoromethane	ND	---	2.00	ug/L	1	01/23/24 17:54	EPA 8260D	
1,2,3-Trichloropropane	ND	---	1.00	ug/L	1	01/23/24 17:54	EPA 8260D	
1,2,4-Trimethylbenzene	ND	---	1.00	ug/L	1	01/23/24 17:54	EPA 8260D	
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	01/23/24 17:54	EPA 8260D	
Vinyl chloride	ND	---	0.200	ug/L	1	01/23/24 17:54	EPA 8260D	
m,p-Xylene	ND	---	1.00	ug/L	1	01/23/24 17:54	EPA 8260D	
o-Xylene	ND	---	0.500	ug/L	1	01/23/24 17:54	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	104 %	Limits:	80-120 %	1	01/23/24 17:54	EPA 8260D
Toluene-d8 (Surr)			104 %		80-120 %	1	01/23/24 17:54	EPA 8260D
4-Bromofluorobenzene (Surr)			94 %		80-120 %	1	01/23/24 17:54	EPA 8260D

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Stantec Portland

601 SW 2nd Ave Suite 1400

Portland, OR 97204

Project: **Edgewood**Project Number: **185750631**Project Manager: **Patrick Vaughan****Report ID:****A4A1253 - 01 30 24 1356**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Drum-S-Edge (A4A1253-08RE1)				Matrix: Soil		Batch: 24A0682		CONT
Acetone	ND	---	1720	ug/kg dry	50	01/23/24 17:53	5035A/8260D	
Acrylonitrile	ND	---	172	ug/kg dry	50	01/23/24 17:53	5035A/8260D	
Benzene	ND	---	17.2	ug/kg dry	50	01/23/24 17:53	5035A/8260D	
Bromobenzene	ND	---	43.0	ug/kg dry	50	01/23/24 17:53	5035A/8260D	
Bromochloromethane	ND	---	86.0	ug/kg dry	50	01/23/24 17:53	5035A/8260D	
Bromodichloromethane	ND	---	86.0	ug/kg dry	50	01/23/24 17:53	5035A/8260D	
Bromoform	ND	---	172	ug/kg dry	50	01/23/24 17:53	5035A/8260D	
Bromomethane	ND	---	860	ug/kg dry	50	01/23/24 17:53	5035A/8260D	
2-Butanone (MEK)	ND	---	860	ug/kg dry	50	01/23/24 17:53	5035A/8260D	
n-Butylbenzene	ND	---	86.0	ug/kg dry	50	01/23/24 17:53	5035A/8260D	
sec-Butylbenzene	ND	---	86.0	ug/kg dry	50	01/23/24 17:53	5035A/8260D	
tert-Butylbenzene	ND	---	86.0	ug/kg dry	50	01/23/24 17:53	5035A/8260D	
Carbon disulfide	ND	---	860	ug/kg dry	50	01/23/24 17:53	5035A/8260D	
Carbon tetrachloride	ND	---	86.0	ug/kg dry	50	01/23/24 17:53	5035A/8260D	
Chlorobenzene	ND	---	43.0	ug/kg dry	50	01/23/24 17:53	5035A/8260D	
Chloroethane	ND	---	860	ug/kg dry	50	01/23/24 17:53	5035A/8260D	
Chloroform	ND	---	86.0	ug/kg dry	50	01/23/24 17:53	5035A/8260D	
Chloromethane	ND	---	430	ug/kg dry	50	01/23/24 17:53	5035A/8260D	
2-Chlorotoluene	ND	---	86.0	ug/kg dry	50	01/23/24 17:53	5035A/8260D	
4-Chlorotoluene	ND	---	86.0	ug/kg dry	50	01/23/24 17:53	5035A/8260D	
Dibromochloromethane	ND	---	172	ug/kg dry	50	01/23/24 17:53	5035A/8260D	
1,2-Dibromo-3-chloropropane	ND	---	430	ug/kg dry	50	01/23/24 17:53	5035A/8260D	
1,2-Dibromoethane (EDB)	ND	---	86.0	ug/kg dry	50	01/23/24 17:53	5035A/8260D	
Dibromomethane	ND	---	86.0	ug/kg dry	50	01/23/24 17:53	5035A/8260D	
1,2-Dichlorobenzene	ND	---	43.0	ug/kg dry	50	01/23/24 17:53	5035A/8260D	
1,3-Dichlorobenzene	ND	---	43.0	ug/kg dry	50	01/23/24 17:53	5035A/8260D	
1,4-Dichlorobenzene	ND	---	43.0	ug/kg dry	50	01/23/24 17:53	5035A/8260D	
Dichlorodifluoromethane	ND	---	172	ug/kg dry	50	01/23/24 17:53	5035A/8260D	
1,1-Dichloroethane	ND	---	43.0	ug/kg dry	50	01/23/24 17:53	5035A/8260D	
1,2-Dichloroethane (EDC)	ND	---	43.0	ug/kg dry	50	01/23/24 17:53	5035A/8260D	
1,1-Dichloroethene	ND	---	43.0	ug/kg dry	50	01/23/24 17:53	5035A/8260D	
cis-1,2-Dichloroethene	ND	---	43.0	ug/kg dry	50	01/23/24 17:53	5035A/8260D	
trans-1,2-Dichloroethene	ND	---	43.0	ug/kg dry	50	01/23/24 17:53	5035A/8260D	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062Stantec Portland601 SW 2nd Ave Suite 1400
Portland, OR 97204Project: Edgewood

Project Number: 185750631

Project Manager: Patrick Vaughan

Report ID:

A4A1253 - 01 30 24 1356

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Drum-S-Edge (A4A1253-08RE1)				Matrix: Soil		Batch: 24A0682		CONT
1,2-Dichloropropane	ND	---	43.0	ug/kg dry	50	01/23/24 17:53	5035A/8260D	
1,3-Dichloropropane	ND	---	86.0	ug/kg dry	50	01/23/24 17:53	5035A/8260D	
2,2-Dichloropropane	ND	---	86.0	ug/kg dry	50	01/23/24 17:53	5035A/8260D	
1,1-Dichloropropene	ND	---	86.0	ug/kg dry	50	01/23/24 17:53	5035A/8260D	
cis-1,3-Dichloropropene	ND	---	86.0	ug/kg dry	50	01/23/24 17:53	5035A/8260D	
trans-1,3-Dichloropropene	ND	---	86.0	ug/kg dry	50	01/23/24 17:53	5035A/8260D	
Ethylbenzene	44.7	---	43.0	ug/kg dry	50	01/23/24 17:53	5035A/8260D	
Hexachlorobutadiene	ND	---	172	ug/kg dry	50	01/23/24 17:53	5035A/8260D	
2-Hexanone	ND	---	860	ug/kg dry	50	01/23/24 17:53	5035A/8260D	
Isopropylbenzene	ND	---	86.0	ug/kg dry	50	01/23/24 17:53	5035A/8260D	
4-Isopropyltoluene	ND	---	86.0	ug/kg dry	50	01/23/24 17:53	5035A/8260D	
Methylene chloride	ND	---	860	ug/kg dry	50	01/23/24 17:53	5035A/8260D	
4-Methyl-2-pentanone (MiBK)	ND	---	860	ug/kg dry	50	01/23/24 17:53	5035A/8260D	
Methyl tert-butyl ether (MTBE)	ND	---	86.0	ug/kg dry	50	01/23/24 17:53	5035A/8260D	
Naphthalene	ND	---	172	ug/kg dry	50	01/23/24 17:53	5035A/8260D	
n-Propylbenzene	ND	---	43.0	ug/kg dry	50	01/23/24 17:53	5035A/8260D	
Styrene	ND	---	86.0	ug/kg dry	50	01/23/24 17:53	5035A/8260D	
1,1,1,2-Tetrachloroethane	ND	---	43.0	ug/kg dry	50	01/23/24 17:53	5035A/8260D	
1,1,2,2-Tetrachloroethane	ND	---	86.0	ug/kg dry	50	01/23/24 17:53	5035A/8260D	
Tetrachloroethene (PCE)	103	---	43.0	ug/kg dry	50	01/23/24 17:53	5035A/8260D	
Toluene	232	---	86.0	ug/kg dry	50	01/23/24 17:53	5035A/8260D	
1,2,3-Trichlorobenzene	ND	---	430	ug/kg dry	50	01/23/24 17:53	5035A/8260D	
1,2,4-Trichlorobenzene	ND	---	430	ug/kg dry	50	01/23/24 17:53	5035A/8260D	
1,1,1-Trichloroethane	ND	---	43.0	ug/kg dry	50	01/23/24 17:53	5035A/8260D	
1,1,2-Trichloroethane	ND	---	43.0	ug/kg dry	50	01/23/24 17:53	5035A/8260D	
Trichloroethene (TCE)	ND	---	43.0	ug/kg dry	50	01/23/24 17:53	5035A/8260D	
Trichlorofluoromethane	ND	---	172	ug/kg dry	50	01/23/24 17:53	5035A/8260D	
1,2,3-Trichloropropane	ND	---	86.0	ug/kg dry	50	01/23/24 17:53	5035A/8260D	
1,2,4-Trimethylbenzene	98.9	---	86.0	ug/kg dry	50	01/23/24 17:53	5035A/8260D	
1,3,5-Trimethylbenzene	ND	---	86.0	ug/kg dry	50	01/23/24 17:53	5035A/8260D	
Vinyl chloride	ND	---	43.0	ug/kg dry	50	01/23/24 17:53	5035A/8260D	
m,p-Xylene	226	---	86.0	ug/kg dry	50	01/23/24 17:53	5035A/8260D	
o-Xylene	50.7	---	43.0	ug/kg dry	50	01/23/24 17:53	5035A/8260D	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Stantec Portland

601 SW 2nd Ave Suite 1400

Portland, OR 97204

Project: **Edgewood**

Project Number: **185750631**

Project Manager: **Patrick Vaughan**

Report ID:

A4A1253 - 01 30 24 1356

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Drum-S-Edge (A4A1253-08RE1)				Matrix: Soil		Batch: 24A0682		CONT
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 100 %	Limits: 80-120 %	1	01/23/24 17:53	5035A/8260D		
Toluene-d8 (Surr)		104 %	80-120 %	1	01/23/24 17:53	5035A/8260D		
4-Bromofluorobenzene (Surr)		108 %	79-120 %	1	01/23/24 17:53	5035A/8260D		

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ANALYTICAL REPORT

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503-718-2323

ORELAP ID: OR100062

Stantec Portland

601 SW 2nd Ave Suite 1400

Portland, OR 97204

Project: **Edgewood**Project Number: **185750631**Project Manager: **Patrick Vaughan****Report ID:****A4A1253 - 01 30 24 1356**

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Drum-S-Edge (A4A1253-08)				Matrix: Soil				
Batch: 24A0699								
Arsenic	4.68	---	1.55	mg/kg dry	10	01/25/24 15:52	EPA 6020B	
Barium	36.8	---	1.55	mg/kg dry	10	01/25/24 15:52	EPA 6020B	
Cadmium	ND	---	0.310	mg/kg dry	10	01/25/24 15:52	EPA 6020B	
Chromium	51.3	---	1.55	mg/kg dry	10	01/25/24 15:52	EPA 6020B	
Lead	1.20	---	0.310	mg/kg dry	10	01/25/24 15:52	EPA 6020B	
Mercury	ND	---	0.124	mg/kg dry	10	01/25/24 15:52	EPA 6020B	
Selenium	ND	---	1.55	mg/kg dry	10	01/25/24 15:52	EPA 6020B	
Silver	ND	---	0.310	mg/kg dry	10	01/25/24 15:52	EPA 6020B	

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ANALYTICAL REPORT

Apex Laboratories, LLC

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ORELAP ID: OR100062

Stantec Portland

601 SW 2nd Ave Suite 1400
Portland, OR 97204

Project: Edgewood

Project Number: **185750631**

Project Manager: **Patrick Vaughan**

Report ID:

A4A1253 - 01 30 24 1356

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Drum-S-Edge (A4A1253-08)				Matrix: Soil		Batch: 24A0598		
% Solids	70.8	---	1.00	%	1	01/23/24 07:11	EPA 8000D	

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ANALYTICAL REPORT

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ORELAP ID: OR100062

Stantec Portland

601 SW 2nd Ave Suite 1400

Portland, OR 97204

Project: **Edgewood**Project Number: **185750631**Project Manager: **Patrick Vaughan****Report ID:****A4A1253 - 01 30 24 1356**

QUALITY CONTROL (QC) SAMPLE RESULTS

Hydrocarbon Identification Screen by NWTPH-HCID

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24A0577 - EPA 3546 (Fuels)						Soil						
Blank (24A0577-BLK1)			Prepared: 01/20/24 09:13 Analyzed: 01/22/24 20:57									
NWTPH-HCID												
Gasoline Range Organics	ND	---	20.0	mg/kg wet	1	---	---	---	---	---	---	
Diesel Range Organics	ND	---	50.0	mg/kg wet	1	---	---	---	---	---	---	
Oil Range Organics	ND	---	100	mg/kg wet	1	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)		Recovery: 83 %		Limits: 50-150 %		Dilution: 1x						
4-Bromofluorobenzene (Surr)		78 %		50-150 %		"						
Duplicate (24A0577-DUP1)			Prepared: 01/20/24 09:13 Analyzed: 01/22/24 21:44									
QC Source Sample: Non-SDG (A4A1252-11)												
Gasoline Range Organics	ND	---	22.6	mg/kg dry	1	---	ND	---	---	---	30%	
Diesel Range Organics	ND	---	56.6	mg/kg dry	1	---	ND	---	---	---	30%	
Oil Range Organics	ND	---	113	mg/kg dry	1	---	ND	---	---	---	30%	
Surr: o-Terphenyl (Surr)		Recovery: 90 %		Limits: 50-150 %		Dilution: 1x						
4-Bromofluorobenzene (Surr)		90 %		50-150 %		"						

Apex Laboratories

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ANALYTICAL REPORT

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6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**Stantec Portland**601 SW 2nd Ave Suite 1400
Portland, OR 97204Project: **Edgewood**Project Number: **185750631**Project Manager: **Patrick Vaughan****Report ID:****A4A1253 - 01 30 24 1356**

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 24A0583 - EPA 5030C						Water							
Blank (24A0583-BLK1)			Prepared: 01/20/24 10:59 Analyzed: 01/20/24 13:48										
EPA 8260D													
Naphthalene	ND	---	5.00	ug/L	1	---	---	---	---	---	---		
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 101 %		Limits: 80-120 %		Dilution: 1x							
Toluene-d8 (Surr)		103 %		80-120 %		"							
4-Bromofluorobenzene (Surr)		97 %		80-120 %		"							
LCS (24A0583-BS1)			Prepared: 01/20/24 10:59 Analyzed: 01/20/24 12:37										Q-50
EPA 8260D													
Naphthalene	18.3	---	5.00	ug/L	1	20.0	---	91	80-120%	---	---		
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 99 %		Limits: 80-120 %		Dilution: 1x							
Toluene-d8 (Surr)		99 %		80-120 %		"							
4-Bromofluorobenzene (Surr)		94 %		80-120 %		"							
Matrix Spike (24A0583-MS1)			Prepared: 01/20/24 10:59 Analyzed: 01/20/24 16:32										
QC Source Sample: Non-SDG (A4A1243-03)													
EPA 8260D													
Naphthalene	19.8	---	5.00	ug/L	1	20.0	ND	99	61-128%	---	---		
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 100 %		Limits: 80-120 %		Dilution: 1x							
Toluene-d8 (Surr)		97 %		80-120 %		"							
4-Bromofluorobenzene (Surr)		92 %		80-120 %		"							

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Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Stantec Portland

601 SW 2nd Ave Suite 1400

Portland, OR 97204

Project: **Edgewood**Project Number: **185750631**Project Manager: **Patrick Vaughan****Report ID:****A4A1253 - 01 30 24 1356**

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24A0599 - EPA 5030C						Water						
Blank (24A0599-BLK1)			Prepared: 01/22/24 09:17		Analyzed: 01/22/24 17:20							
EPA 8260D												
Acetone	ND	---	20.0	ug/L	1	---	---	---	---	---	---	
Acrylonitrile	ND	---	2.00	ug/L	1	---	---	---	---	---	---	
Benzene	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
Bromobenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Bromochloromethane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Bromodichloromethane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Bromoform	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Bromomethane	ND	---	5.00	ug/L	1	---	---	---	---	---	---	
2-Butanone (MEK)	ND	---	10.0	ug/L	1	---	---	---	---	---	---	
n-Butylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
sec-Butylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
tert-Butylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Carbon disulfide	ND	---	10.0	ug/L	1	---	---	---	---	---	---	
Carbon tetrachloride	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Chlorobenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Chloroethane	ND	---	5.00	ug/L	1	---	---	---	---	---	---	
Chloroform	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Chloromethane	ND	---	5.00	ug/L	1	---	---	---	---	---	---	
2-Chlorotoluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
4-Chlorotoluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Dibromochloromethane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
1,2-Dibromo-3-chloropropane	ND	---	5.00	ug/L	1	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Dibromomethane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Dichlorodifluoromethane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
1,1-Dichloroethane	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
1,1-Dichloroethene	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
cis-1,2-Dichloroethene	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
trans-1,2-Dichloroethene	ND	---	0.400	ug/L	1	---	---	---	---	---	---	

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ANALYTICAL REPORT

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Project: **Edgewood**Project Number: **185750631**Project Manager: **Patrick Vaughan****Report ID:****A4A1253 - 01 30 24 1356**

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24A0599 - EPA 5030C						Water						
Blank (24A0599-BLK1)						Prepared: 01/22/24 09:17 Analyzed: 01/22/24 17:20						
1,2-Dichloropropane	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dichloropropane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
2,2-Dichloropropane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
1,1-Dichloropropene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Hexachlorobutadiene	ND	---	5.00	ug/L	1	---	---	---	---	---	---	
2-Hexanone	ND	---	10.0	ug/L	1	---	---	---	---	---	---	
Isopropylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
4-Isopropyltoluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Methylene chloride	ND	---	10.0	ug/L	1	---	---	---	---	---	---	
4-Methyl-2-pentanone (MiBK)	ND	---	10.0	ug/L	1	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	---	5.00	ug/L	1	---	---	---	---	---	---	
n-Propylbenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Styrene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
Toluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	---	2.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	---	2.00	ug/L	1	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
Trichlorofluoromethane	ND	---	2.00	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Vinyl chloride	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
m,p-Xylene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
o-Xylene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr) Recovery: 102 % Limits: 80-120 % Dilution: 1x												

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Portland, OR 97204

Project: **Edgewood**Project Number: **185750631**Project Manager: **Patrick Vaughan****Report ID:****A4A1253 - 01 30 24 1356**

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24A0599 - EPA 5030C						Water						
Blank (24A0599-BLK1)			Prepared: 01/22/24 09:17		Analyzed: 01/22/24 17:20							
Surr: Toluene-d8 (Surr)		Recovery: 104 %		Limits: 80-120 %		Dilution: 1x						
4-Bromofluorobenzene (Surr)		97 %		80-120 %		"						
LCS (24A0599-BS1)			Prepared: 01/22/24 09:17		Analyzed: 01/22/24 16:17							
EPA 8260D												
Acetone	45.1	---	20.0	ug/L	1	40.0	---	113	80-120%	---	---	
Acrylonitrile	21.7	---	2.00	ug/L	1	20.0	---	108	80-120%	---	---	
Benzene	19.1	---	0.200	ug/L	1	20.0	---	95	80-120%	---	---	
Bromobenzene	18.4	---	0.500	ug/L	1	20.0	---	92	80-120%	---	---	
Bromochloromethane	24.1	---	1.00	ug/L	1	20.0	---	120	80-120%	---	---	
Bromodichloromethane	20.8	---	1.00	ug/L	1	20.0	---	104	80-120%	---	---	
Bromoform	15.2	---	1.00	ug/L	1	20.0	---	76	80-120%	---	---	Q-55
Bromomethane	32.3	---	5.00	ug/L	1	20.0	---	162	80-120%	---	---	Q-56
2-Butanone (MEK)	47.8	---	10.0	ug/L	1	40.0	---	119	80-120%	---	---	
n-Butylbenzene	20.7	---	1.00	ug/L	1	20.0	---	104	80-120%	---	---	
sec-Butylbenzene	20.1	---	1.00	ug/L	1	20.0	---	100	80-120%	---	---	
tert-Butylbenzene	19.1	---	1.00	ug/L	1	20.0	---	95	80-120%	---	---	
Carbon disulfide	16.3	---	10.0	ug/L	1	20.0	---	82	80-120%	---	---	
Carbon tetrachloride	17.9	---	1.00	ug/L	1	20.0	---	90	80-120%	---	---	
Chlorobenzene	19.1	---	0.500	ug/L	1	20.0	---	95	80-120%	---	---	
Chloroethane	39.6	---	5.00	ug/L	1	20.0	---	198	80-120%	---	---	Q-56
Chloroform	20.6	---	1.00	ug/L	1	20.0	---	103	80-120%	---	---	
Chloromethane	19.6	---	5.00	ug/L	1	20.0	---	98	80-120%	---	---	
2-Chlorotoluene	18.4	---	1.00	ug/L	1	20.0	---	92	80-120%	---	---	
4-Chlorotoluene	19.5	---	1.00	ug/L	1	20.0	---	97	80-120%	---	---	
Dibromochloromethane	19.4	---	1.00	ug/L	1	20.0	---	97	80-120%	---	---	
1,2-Dibromo-3-chloropropane	14.9	---	5.00	ug/L	1	20.0	---	75	80-120%	---	---	Q-55
1,2-Dibromoethane (EDB)	19.4	---	0.500	ug/L	1	20.0	---	97	80-120%	---	---	
Dibromomethane	21.6	---	1.00	ug/L	1	20.0	---	108	80-120%	---	---	
1,2-Dichlorobenzene	19.1	---	0.500	ug/L	1	20.0	---	95	80-120%	---	---	
1,3-Dichlorobenzene	18.8	---	0.500	ug/L	1	20.0	---	94	80-120%	---	---	
1,4-Dichlorobenzene	18.5	---	0.500	ug/L	1	20.0	---	93	80-120%	---	---	
Dichlorodifluoromethane	19.4	---	1.00	ug/L	1	20.0	---	97	80-120%	---	---	
1,1-Dichloroethane	20.8	---	0.400	ug/L	1	20.0	---	104	80-120%	---	---	

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Portland, OR 97204

Project: **Edgewood**Project Number: **185750631**Project Manager: **Patrick Vaughan****Report ID:****A4A1253 - 01 30 24 1356**

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24A0599 - EPA 5030C						Water						
LCS (24A0599-BS1)						Prepared: 01/22/24 09:17 Analyzed: 01/22/24 16:17						
1,2-Dichloroethane (EDC)	23.0	---	0.400	ug/L	1	20.0	---	115	80-120%	---	---	
1,1-Dichloroethene	21.5	---	0.400	ug/L	1	20.0	---	107	80-120%	---	---	
cis-1,2-Dichloroethene	20.5	---	0.400	ug/L	1	20.0	---	103	80-120%	---	---	
trans-1,2-Dichloroethene	19.8	---	0.400	ug/L	1	20.0	---	99	80-120%	---	---	
1,2-Dichloropropane	20.5	---	0.500	ug/L	1	20.0	---	102	80-120%	---	---	
1,3-Dichloropropane	20.4	---	1.00	ug/L	1	20.0	---	102	80-120%	---	---	
2,2-Dichloropropane	14.3	---	1.00	ug/L	1	20.0	---	72	80-120%	---	---	Q-55
1,1-Dichloropropene	20.4	---	1.00	ug/L	1	20.0	---	102	80-120%	---	---	
cis-1,3-Dichloropropene	18.2	---	1.00	ug/L	1	20.0	---	91	80-120%	---	---	
trans-1,3-Dichloropropene	18.9	---	1.00	ug/L	1	20.0	---	94	80-120%	---	---	
Ethylbenzene	20.0	---	0.500	ug/L	1	20.0	---	100	80-120%	---	---	
Hexachlorobutadiene	17.0	---	5.00	ug/L	1	20.0	---	85	80-120%	---	---	
2-Hexanone	45.0	---	10.0	ug/L	1	40.0	---	112	80-120%	---	---	
Isopropylbenzene	19.1	---	1.00	ug/L	1	20.0	---	96	80-120%	---	---	
4-Isopropyltoluene	19.7	---	1.00	ug/L	1	20.0	---	98	80-120%	---	---	
Methylene chloride	19.0	---	10.0	ug/L	1	20.0	---	95	80-120%	---	---	
4-Methyl-2-pentanone (MiBK)	47.5	---	10.0	ug/L	1	40.0	---	119	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	16.8	---	1.00	ug/L	1	20.0	---	84	80-120%	---	---	
Naphthalene	19.2	---	5.00	ug/L	1	20.0	---	96	80-120%	---	---	
n-Propylbenzene	20.2	---	0.500	ug/L	1	20.0	---	101	80-120%	---	---	
Styrene	20.2	---	1.00	ug/L	1	20.0	---	101	80-120%	---	---	
1,1,1,2-Tetrachloroethane	18.8	---	0.400	ug/L	1	20.0	---	94	80-120%	---	---	
1,1,2,2-Tetrachloroethane	22.2	---	0.500	ug/L	1	20.0	---	111	80-120%	---	---	
Tetrachloroethene (PCE)	17.7	---	0.400	ug/L	1	20.0	---	88	80-120%	---	---	
Toluene	18.9	---	1.00	ug/L	1	20.0	---	94	80-120%	---	---	
1,2,3-Trichlorobenzene	19.4	---	2.00	ug/L	1	20.0	---	97	80-120%	---	---	
1,2,4-Trichlorobenzene	18.4	---	2.00	ug/L	1	20.0	---	92	80-120%	---	---	
1,1,1-Trichloroethane	19.2	---	0.400	ug/L	1	20.0	---	96	80-120%	---	---	
1,1,2-Trichloroethane	19.9	---	0.500	ug/L	1	20.0	---	99	80-120%	---	---	
Trichloroethene (TCE)	18.2	---	0.400	ug/L	1	20.0	---	91	80-120%	---	---	
Trichlorofluoromethane	34.1	---	2.00	ug/L	1	20.0	---	170	80-120%	---	---	Q-56
1,2,3-Trichloropropane	20.9	---	1.00	ug/L	1	20.0	---	105	80-120%	---	---	
1,2,4-Trimethylbenzene	20.6	---	1.00	ug/L	1	20.0	---	103	80-120%	---	---	
1,3,5-Trimethylbenzene	20.6	---	1.00	ug/L	1	20.0	---	103	80-120%	---	---	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24A0599 - EPA 5030C						Water						
LCS (24A0599-BS1)			Prepared: 01/22/24 09:17		Analyzed: 01/22/24 16:17							
Vinyl chloride	20.6	---	0.200	ug/L	1	20.0	---	103	80-120%	---	---	
m,p-Xylene	40.1	---	1.00	ug/L	1	40.0	---	100	80-120%	---	---	
o-Xylene	19.1	---	0.500	ug/L	1	20.0	---	95	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 99 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		100 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		93 %		80-120 %		"						

Duplicate (24A0599-DUP1)

Prepared: 01/22/24 09:17 Analyzed: 01/23/24 00:08

QC Source Sample: Non-SDG (A4A1252-12)

Acetone	ND	---	20.0	ug/L	1	---	ND	---	---	---	30%
Acrylonitrile	ND	---	2.00	ug/L	1	---	ND	---	---	---	30%
Benzene	ND	---	0.200	ug/L	1	---	ND	---	---	---	30%
Bromobenzene	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%
Bromochloromethane	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%
Bromodichloromethane	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%
Bromoform	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%
Bromomethane	ND	---	5.00	ug/L	1	---	ND	---	---	---	30%
2-Butanone (MEK)	ND	---	10.0	ug/L	1	---	ND	---	---	---	30%
n-Butylbenzene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%
sec-Butylbenzene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%
tert-Butylbenzene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%
Carbon disulfide	ND	---	10.0	ug/L	1	---	ND	---	---	---	30%
Carbon tetrachloride	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%
Chlorobenzene	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%
Chloroethane	ND	---	5.00	ug/L	1	---	ND	---	---	---	30%
Chloroform	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%
Chloromethane	ND	---	5.00	ug/L	1	---	ND	---	---	---	30%
2-Chlorotoluene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%
4-Chlorotoluene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%
Dibromochloromethane	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%
1,2-Dibromo-3-chloropropane	ND	---	5.00	ug/L	1	---	ND	---	---	---	30%
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%
Dibromomethane	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%
1,2-Dichlorobenzene	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%

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Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Stantec Portland

601 SW 2nd Ave Suite 1400

Portland, OR 97204

Project: **Edgewood**Project Number: **185750631**Project Manager: **Patrick Vaughan****Report ID:****A4A1253 - 01 30 24 1356**

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24A0599 - EPA 5030C						Water						
Duplicate (24A0599-DUP1)			Prepared: 01/22/24 09:17		Analyzed: 01/23/24 00:08							
QC Source Sample: Non-SDG (A4A1252-12)												
1,3-Dichlorobenzene	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	---	0.400	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	---	0.400	ug/L	1	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	---	0.400	ug/L	1	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	---	0.400	ug/L	1	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	---	0.400	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
Ethylbenzene	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	---	5.00	ug/L	1	---	ND	---	---	---	30%	
2-Hexanone	ND	---	10.0	ug/L	1	---	ND	---	---	---	30%	
Isopropylbenzene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
4-Isopropyltoluene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
Methylene chloride	ND	---	10.0	ug/L	1	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	---	10.0	ug/L	1	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
Naphthalene	ND	---	5.00	ug/L	1	---	ND	---	---	---	30%	
n-Propylbenzene	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%	
Styrene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	---	0.400	ug/L	1	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	ND	---	0.400	ug/L	1	---	ND	---	---	---	30%	
Toluene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	---	2.00	ug/L	1	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	---	2.00	ug/L	1	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	---	0.400	ug/L	1	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%	

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ANALYTICAL REPORT

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503-718-2323

ORELAP ID: OR100062

Stantec Portland

601 SW 2nd Ave Suite 1400

Portland, OR 97204

Project: **Edgewood**Project Number: **185750631**Project Manager: **Patrick Vaughan****Report ID:****A4A1253 - 01 30 24 1356**

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24A0599 - EPA 5030C						Water						
Duplicate (24A0599-DUP1)			Prepared: 01/22/24 09:17 Analyzed: 01/23/24 00:08									
QC Source Sample: Non-SDG (A4A1252-12)												
Trichloroethene (TCE)	ND	---	0.400	ug/L	1	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	---	2.00	ug/L	1	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
Vinyl chloride	ND	---	0.200	ug/L	1	---	ND	---	---	---	30%	
m,p-Xylene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
o-Xylene	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 105 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		104 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		95 %		80-120 %		"						

Duplicate (24A0599-DUP2) Prepared: 01/22/24 09:17 Analyzed: 01/23/24 04:14

QC Source Sample: Non-SDG (A4A1262-02)

Acetone	ND	---	1000	ug/L	50	---	ND	---	---	---	30%	
Acrylonitrile	ND	---	100	ug/L	50	---	ND	---	---	---	30%	
Benzene	ND	---	10.0	ug/L	50	---	ND	---	---	---	30%	
Bromobenzene	ND	---	25.0	ug/L	50	---	ND	---	---	---	30%	
Bromochloromethane	ND	---	50.0	ug/L	50	---	ND	---	---	---	30%	
Bromodichloromethane	ND	---	50.0	ug/L	50	---	ND	---	---	---	30%	
Bromoform	ND	---	50.0	ug/L	50	---	ND	---	---	---	30%	
Bromomethane	ND	---	250	ug/L	50	---	ND	---	---	---	30%	
2-Butanone (MEK)	ND	---	500	ug/L	50	---	ND	---	---	---	30%	
n-Butylbenzene	ND	---	50.0	ug/L	50	---	ND	---	---	---	30%	
sec-Butylbenzene	ND	---	50.0	ug/L	50	---	ND	---	---	---	30%	
tert-Butylbenzene	ND	---	50.0	ug/L	50	---	ND	---	---	---	30%	
Carbon disulfide	ND	---	500	ug/L	50	---	ND	---	---	---	30%	
Carbon tetrachloride	ND	---	50.0	ug/L	50	---	ND	---	---	---	30%	
Chlorobenzene	ND	---	25.0	ug/L	50	---	ND	---	---	---	30%	
Chloroethane	ND	---	250	ug/L	50	---	ND	---	---	---	30%	
Chloroform	ND	---	50.0	ug/L	50	---	ND	---	---	---	30%	
Chloromethane	ND	---	250	ug/L	50	---	ND	---	---	---	30%	
2-Chlorotoluene	ND	---	50.0	ug/L	50	---	ND	---	---	---	30%	

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Portland, OR 97204

Project: **Edgewood**Project Number: **185750631**Project Manager: **Patrick Vaughan****Report ID:****A4A1253 - 01 30 24 1356**

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24A0599 - EPA 5030C						Water						
Duplicate (24A0599-DUP2)			Prepared: 01/22/24 09:17 Analyzed: 01/23/24 04:14									
QC Source Sample: Non-SDG (A4A1262-02)												
4-Chlorotoluene	ND	---	50.0	ug/L	50	---	ND	---	---	---	30%	
Dibromochloromethane	ND	---	50.0	ug/L	50	---	ND	---	---	---	30%	
1,2-Dibromo-3-chloropropane	ND	---	250	ug/L	50	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	---	25.0	ug/L	50	---	ND	---	---	---	30%	
Dibromomethane	ND	---	50.0	ug/L	50	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	---	25.0	ug/L	50	---	ND	---	---	---	30%	
1,3-Dichlorobenzene	ND	---	25.0	ug/L	50	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	---	25.0	ug/L	50	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	---	50.0	ug/L	50	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	---	20.0	ug/L	50	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	---	20.0	ug/L	50	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	---	20.0	ug/L	50	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	---	20.0	ug/L	50	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	---	20.0	ug/L	50	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	---	25.0	ug/L	50	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	---	50.0	ug/L	50	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	---	50.0	ug/L	50	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	---	50.0	ug/L	50	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	---	50.0	ug/L	50	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	---	50.0	ug/L	50	---	ND	---	---	---	30%	
Ethylbenzene	ND	---	25.0	ug/L	50	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	---	250	ug/L	50	---	ND	---	---	---	30%	
2-Hexanone	ND	---	500	ug/L	50	---	ND	---	---	---	30%	
Isopropylbenzene	ND	---	50.0	ug/L	50	---	ND	---	---	---	30%	
4-Isopropyltoluene	ND	---	50.0	ug/L	50	---	ND	---	---	---	30%	
Methylene chloride	ND	---	500	ug/L	50	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	---	500	ug/L	50	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	---	50.0	ug/L	50	---	ND	---	---	---	30%	
Naphthalene	ND	---	250	ug/L	50	---	ND	---	---	---	30%	
n-Propylbenzene	ND	---	25.0	ug/L	50	---	ND	---	---	---	30%	
Styrene	ND	---	50.0	ug/L	50	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	---	20.0	ug/L	50	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	---	25.0	ug/L	50	---	ND	---	---	---	30%	

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Portland, OR 97204

Project: **Edgewood**Project Number: **185750631**Project Manager: **Patrick Vaughan****Report ID:****A4A1253 - 01 30 24 1356**

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24A0599 - EPA 5030C						Water						
Duplicate (24A0599-DUP2)			Prepared: 01/22/24 09:17 Analyzed: 01/23/24 04:14									
QC Source Sample: Non-SDG (A4A1262-02)												
Tetrachloroethene (PCE)	ND	---	20.0	ug/L	50	---	ND	---	---	---	30%	
Toluene	ND	---	50.0	ug/L	50	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	---	100	ug/L	50	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	---	100	ug/L	50	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	---	20.0	ug/L	50	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	---	25.0	ug/L	50	---	ND	---	---	---	30%	
Trichloroethene (TCE)	ND	---	20.0	ug/L	50	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	---	100	ug/L	50	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	---	50.0	ug/L	50	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	---	50.0	ug/L	50	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	---	50.0	ug/L	50	---	ND	---	---	---	30%	
Vinyl chloride	ND	---	10.0	ug/L	50	---	ND	---	---	---	30%	
m,p-Xylene	ND	---	50.0	ug/L	50	---	ND	---	---	---	30%	
o-Xylene	ND	---	25.0	ug/L	50	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 104 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		103 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		94 %		80-120 %		"						

Matrix Spike (24A0599-MS1)

Prepared: 01/22/24 09:17 Analyzed: 01/23/24 01:30

QC Source Sample: Non-SDG (A4A1269-02)

EPA 8260D												
Acetone	48.4	---	20.0	ug/L	1	40.0	ND	121	39-160%	---	---	
Acrylonitrile	22.5	---	2.00	ug/L	1	20.0	ND	113	63-135%	---	---	
Benzene	21.0	---	0.200	ug/L	1	20.0	ND	105	79-120%	---	---	
Bromobenzene	18.4	---	0.500	ug/L	1	20.0	ND	92	80-120%	---	---	
Bromochloromethane	26.5	---	1.00	ug/L	1	20.0	ND	132	78-123%	---	---	Q-01
Bromodichloromethane	22.4	---	1.00	ug/L	1	20.0	ND	112	79-125%	---	---	
Bromoform	15.7	---	1.00	ug/L	1	20.0	ND	79	66-130%	---	---	Q-54k
Bromomethane	35.8	---	5.00	ug/L	1	20.0	ND	179	53-141%	---	---	Q-54d
2-Butanone (MEK)	50.0	---	10.0	ug/L	1	40.0	ND	125	56-143%	---	---	
n-Butylbenzene	22.5	---	1.00	ug/L	1	20.0	ND	112	75-128%	---	---	
sec-Butylbenzene	21.6	---	1.00	ug/L	1	20.0	ND	108	77-126%	---	---	
tert-Butylbenzene	20.8	---	1.00	ug/L	1	20.0	ND	104	78-124%	---	---	

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Project: **Edgewood**Project Number: **185750631**Project Manager: **Patrick Vaughan****Report ID:****A4A1253 - 01 30 24 1356**

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24A0599 - EPA 5030C						Water						
Matrix Spike (24A0599-MS1)			Prepared: 01/22/24 09:17		Analyzed: 01/23/24 01:30							
QC Source Sample: Non-SDG (A4A1269-02)												
Carbon disulfide	19.2	---	10.0	ug/L	1	20.0	ND	96	64-133%	---	---	Q-54h
Carbon tetrachloride	20.9	---	1.00	ug/L	1	20.0	ND	105	72-136%	---	---	
Chlorobenzene	20.6	---	0.500	ug/L	1	20.0	ND	103	80-120%	---	---	
Chloroethane	45.6	---	5.00	ug/L	1	20.0	ND	228	60-138%	---	---	
Chloroform	22.4	---	1.00	ug/L	1	20.0	ND	112	79-124%	---	---	
Chloromethane	22.2	---	5.00	ug/L	1	20.0	ND	111	50-139%	---	---	
2-Chlorotoluene	19.3	---	1.00	ug/L	1	20.0	ND	96	79-122%	---	---	
4-Chlorotoluene	20.6	---	1.00	ug/L	1	20.0	ND	103	78-122%	---	---	
Dibromochloromethane	19.5	---	1.00	ug/L	1	20.0	ND	98	74-126%	---	---	Q-54l
1,2-Dibromo-3-chloropropane	14.6	---	5.00	ug/L	1	20.0	ND	73	62-128%	---	---	
1,2-Dibromoethane (EDB)	20.0	---	0.500	ug/L	1	20.0	ND	100	77-121%	---	---	
Dibromomethane	22.7	---	1.00	ug/L	1	20.0	ND	113	79-123%	---	---	
1,2-Dichlorobenzene	19.6	---	0.500	ug/L	1	20.0	ND	98	80-120%	---	---	
1,3-Dichlorobenzene	19.2	---	0.500	ug/L	1	20.0	ND	96	80-120%	---	---	
1,4-Dichlorobenzene	19.3	---	0.500	ug/L	1	20.0	ND	97	79-120%	---	---	
Dichlorodifluoromethane	23.0	---	1.00	ug/L	1	20.0	ND	115	32-152%	---	---	
1,1-Dichloroethane	23.0	---	0.400	ug/L	1	20.0	ND	115	77-125%	---	---	
1,2-Dichloroethane (EDC)	25.0	---	0.400	ug/L	1	20.0	ND	125	73-128%	---	---	
1,1-Dichloroethene	26.4	---	0.400	ug/L	1	20.0	ND	132	71-131%	---	---	
cis-1,2-Dichloroethene	22.4	---	0.400	ug/L	1	20.0	ND	112	78-123%	---	---	
trans-1,2-Dichloroethene	22.2	---	0.400	ug/L	1	20.0	ND	111	75-124%	---	---	
1,2-Dichloropropane	22.3	---	0.500	ug/L	1	20.0	ND	112	78-122%	---	---	
1,3-Dichloropropane	21.2	---	1.00	ug/L	1	20.0	ND	106	80-120%	---	---	
2,2-Dichloropropane	16.4	---	1.00	ug/L	1	20.0	ND	82	60-139%	---	---	Q-54m
1,1-Dichloropropene	23.9	---	1.00	ug/L	1	20.0	ND	120	79-125%	---	---	
cis-1,3-Dichloropropene	16.9	---	1.00	ug/L	1	20.0	ND	84	75-124%	---	---	
trans-1,3-Dichloropropene	19.5	---	1.00	ug/L	1	20.0	ND	97	73-127%	---	---	
Ethylbenzene	22.0	---	0.500	ug/L	1	20.0	ND	110	79-121%	---	---	
Hexachlorobutadiene	17.4	---	5.00	ug/L	1	20.0	ND	87	66-134%	---	---	
2-Hexanone	46.0	---	10.0	ug/L	1	40.0	ND	115	57-139%	---	---	
Isopropylbenzene	20.8	---	1.00	ug/L	1	20.0	ND	104	72-131%	---	---	
4-Isopropyltoluene	20.9	---	1.00	ug/L	1	20.0	ND	104	77-127%	---	---	
Methylene chloride	20.6	---	10.0	ug/L	1	20.0	ND	103	74-124%	---	---	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24A0599 - EPA 5030C						Water						
Matrix Spike (24A0599-MS1)			Prepared: 01/22/24 09:17		Analyzed: 01/23/24 01:30							
QC Source Sample: Non-SDG (A4A1269-02)												
4-Methyl-2-pentanone (MiBK)	48.0	---	10.0	ug/L	1	40.0	ND	120	67-130%	---	---	Q-54e
Methyl tert-butyl ether (MTBE)	17.2	---	1.00	ug/L	1	20.0	ND	86	71-124%	---	---	
Naphthalene	18.2	---	5.00	ug/L	1	20.0	ND	91	61-128%	---	---	
n-Propylbenzene	21.8	---	0.500	ug/L	1	20.0	ND	109	76-126%	---	---	
Styrene	21.0	---	1.00	ug/L	1	20.0	ND	105	78-123%	---	---	
1,1,1,2-Tetrachloroethane	20.0	---	0.400	ug/L	1	20.0	ND	100	78-124%	---	---	
1,1,2,2-Tetrachloroethane	23.5	---	0.500	ug/L	1	20.0	ND	117	71-121%	---	---	
Tetrachloroethene (PCE)	19.6	---	0.400	ug/L	1	20.0	ND	98	74-129%	---	---	
Toluene	20.2	---	1.00	ug/L	1	20.0	ND	101	80-121%	---	---	
1,2,3-Trichlorobenzene	18.3	---	2.00	ug/L	1	20.0	ND	91	69-129%	---	---	
1,2,4-Trichlorobenzene	17.5	---	2.00	ug/L	1	20.0	ND	88	69-130%	---	---	
1,1,1-Trichloroethane	21.8	---	0.400	ug/L	1	20.0	ND	109	74-131%	---	---	
1,1,2-Trichloroethane	20.8	---	0.500	ug/L	1	20.0	ND	104	80-120%	---	---	
Trichloroethene (TCE)	19.2	---	0.400	ug/L	1	20.0	ND	96	79-123%	---	---	
Trichlorofluoromethane	43.0	---	2.00	ug/L	1	20.0	ND	215	65-141%	---	---	
1,2,3-Trichloropropane	21.0	---	1.00	ug/L	1	20.0	ND	105	73-122%	---	---	
1,2,4-Trimethylbenzene	21.8	---	1.00	ug/L	1	20.0	ND	109	76-124%	---	---	
1,3,5-Trimethylbenzene	21.8	---	1.00	ug/L	1	20.0	ND	109	75-124%	---	---	
Vinyl chloride	23.9	---	0.200	ug/L	1	20.0	ND	119	58-137%	---	---	
m,p-Xylene	43.8	---	1.00	ug/L	1	40.0	ND	110	80-121%	---	---	
o-Xylene	20.3	---	0.500	ug/L	1	20.0	ND	101	78-122%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery:		100 %	Limits:		80-120 %		Dilution: 1x			
Toluene-d8 (Surr)				98 %			80-120 %		"			
4-Bromofluorobenzene (Surr)				91 %			80-120 %		"			

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Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Stantec Portland

601 SW 2nd Ave Suite 1400

Portland, OR 97204

Project: **Edgewood**Project Number: **185750631**Project Manager: **Patrick Vaughan****Report ID:****A4A1253 - 01 30 24 1356**

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24A0653 - EPA 5030C						Water						
Blank (24A0653-BLK1)			Prepared: 01/23/24 10:44		Analyzed: 01/23/24 13:22							
EPA 8260D												
Acetone	ND	---	20.0	ug/L	1	---	---	---	---	---	---	
Acrylonitrile	ND	---	2.00	ug/L	1	---	---	---	---	---	---	
Benzene	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
Bromobenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Bromochloromethane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Bromodichloromethane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Bromoform	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Bromomethane	ND	---	5.00	ug/L	1	---	---	---	---	---	---	
2-Butanone (MEK)	ND	---	10.0	ug/L	1	---	---	---	---	---	---	
n-Butylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
sec-Butylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
tert-Butylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Carbon disulfide	ND	---	10.0	ug/L	1	---	---	---	---	---	---	
Carbon tetrachloride	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Chlorobenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Chloroethane	ND	---	5.00	ug/L	1	---	---	---	---	---	---	
Chloroform	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Chloromethane	ND	---	5.00	ug/L	1	---	---	---	---	---	---	
2-Chlorotoluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
4-Chlorotoluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Dibromochloromethane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
1,2-Dibromo-3-chloropropane	ND	---	5.00	ug/L	1	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Dibromomethane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Dichlorodifluoromethane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
1,1-Dichloroethane	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
1,1-Dichloroethene	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
cis-1,2-Dichloroethene	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
trans-1,2-Dichloroethene	ND	---	0.400	ug/L	1	---	---	---	---	---	---	

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ANALYTICAL REPORT

Apex Laboratories, LLC

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503-718-2323

ORELAP ID: OR100062

Stantec Portland

601 SW 2nd Ave Suite 1400

Portland, OR 97204

Project: **Edgewood**Project Number: **185750631**Project Manager: **Patrick Vaughan****Report ID:****A4A1253 - 01 30 24 1356**

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24A0653 - EPA 5030C						Water						
Blank (24A0653-BLK1)						Prepared: 01/23/24 10:44 Analyzed: 01/23/24 13:22						
1,2-Dichloropropane	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dichloropropane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
2,2-Dichloropropane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
1,1-Dichloropropene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Hexachlorobutadiene	ND	---	5.00	ug/L	1	---	---	---	---	---	---	
2-Hexanone	ND	---	10.0	ug/L	1	---	---	---	---	---	---	
Isopropylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
4-Isopropyltoluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Methylene chloride	ND	---	10.0	ug/L	1	---	---	---	---	---	---	
4-Methyl-2-pentanone (MiBK)	ND	---	10.0	ug/L	1	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	---	5.00	ug/L	1	---	---	---	---	---	---	
n-Propylbenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Styrene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
Toluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	---	2.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	---	2.00	ug/L	1	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
Trichlorofluoromethane	ND	---	2.00	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Vinyl chloride	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
m,p-Xylene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
o-Xylene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr) Recovery: 103 % Limits: 80-120 % Dilution: 1x												

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ANALYTICAL REPORT

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Portland, OR 97204

Project: **Edgewood**Project Number: **185750631**Project Manager: **Patrick Vaughan****Report ID:****A4A1253 - 01 30 24 1356**

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes				
Batch 24A0653 - EPA 5030C						Water										
Blank (24A0653-BLK1)						Prepared: 01/23/24 10:44 Analyzed: 01/23/24 13:22										
Surr: Toluene-d8 (Surr)		Recovery: 105 %		Limits: 80-120 %		Dilution: 1x										
4-Bromofluorobenzene (Surr)		96 %		80-120 %		"										
LCS (24A0653-BS1)						Prepared: 01/23/24 10:44 Analyzed: 01/23/24 12:09										
EPA 8260D																
Acetone	45.0	---	20.0	ug/L	1	40.0	---	112	80-120%	---	---					
Acrylonitrile	22.4	---	2.00	ug/L	1	20.0	---	112	80-120%	---	---					
Benzene	19.7	---	0.200	ug/L	1	20.0	---	98	80-120%	---	---					
Bromobenzene	18.0	---	0.500	ug/L	1	20.0	---	90	80-120%	---	---					
Bromochloromethane	25.1	---	1.00	ug/L	1	20.0	---	126	80-120%	---	---	Q-56				
Bromodichloromethane	21.3	---	1.00	ug/L	1	20.0	---	107	80-120%	---	---					
Bromoform	15.0	---	1.00	ug/L	1	20.0	---	75	80-120%	---	---	Q-55				
Bromomethane	30.4	---	5.00	ug/L	1	20.0	---	152	80-120%	---	---	Q-56				
2-Butanone (MEK)	48.6	---	10.0	ug/L	1	40.0	---	121	80-120%	---	---	Q-56				
n-Butylbenzene	21.6	---	1.00	ug/L	1	20.0	---	108	80-120%	---	---					
sec-Butylbenzene	20.6	---	1.00	ug/L	1	20.0	---	103	80-120%	---	---					
tert-Butylbenzene	19.6	---	1.00	ug/L	1	20.0	---	98	80-120%	---	---					
Carbon disulfide	16.8	---	10.0	ug/L	1	20.0	---	84	80-120%	---	---					
Carbon tetrachloride	18.5	---	1.00	ug/L	1	20.0	---	93	80-120%	---	---					
Chlorobenzene	19.5	---	0.500	ug/L	1	20.0	---	97	80-120%	---	---					
Chloroethane	43.9	---	5.00	ug/L	1	20.0	---	219	80-120%	---	---	Q-56				
Chloroform	21.1	---	1.00	ug/L	1	20.0	---	105	80-120%	---	---					
Chloromethane	21.8	---	5.00	ug/L	1	20.0	---	109	80-120%	---	---					
2-Chlorotoluene	18.6	---	1.00	ug/L	1	20.0	---	93	80-120%	---	---					
4-Chlorotoluene	20.0	---	1.00	ug/L	1	20.0	---	100	80-120%	---	---					
Dibromochloromethane	19.0	---	1.00	ug/L	1	20.0	---	95	80-120%	---	---					
1,2-Dibromo-3-chloropropane	14.5	---	5.00	ug/L	1	20.0	---	72	80-120%	---	---	Q-55				
1,2-Dibromoethane (EDB)	19.1	---	0.500	ug/L	1	20.0	---	96	80-120%	---	---					
Dibromomethane	21.9	---	1.00	ug/L	1	20.0	---	110	80-120%	---	---					
1,2-Dichlorobenzene	19.3	---	0.500	ug/L	1	20.0	---	96	80-120%	---	---					
1,3-Dichlorobenzene	19.3	---	0.500	ug/L	1	20.0	---	96	80-120%	---	---					
1,4-Dichlorobenzene	19.0	---	0.500	ug/L	1	20.0	---	95	80-120%	---	---					
Dichlorodifluoromethane	19.2	---	1.00	ug/L	1	20.0	---	96	80-120%	---	---					
1,1-Dichloroethane	21.5	---	0.400	ug/L	1	20.0	---	107	80-120%	---	---					

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ORELAP ID: OR100062

Stantec Portland

601 SW 2nd Ave Suite 1400

Portland, OR 97204

Project: **Edgewood**Project Number: **185750631**Project Manager: **Patrick Vaughan****Report ID:****A4A1253 - 01 30 24 1356**

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24A0653 - EPA 5030C						Water						
LCS (24A0653-BS1)						Prepared: 01/23/24 10:44 Analyzed: 01/23/24 12:09						
1,2-Dichloroethane (EDC)	23.9	---	0.400	ug/L	1	20.0	---	120	80-120%	---	---	
1,1-Dichloroethene	23.1	---	0.400	ug/L	1	20.0	---	115	80-120%	---	---	
cis-1,2-Dichloroethene	20.9	---	0.400	ug/L	1	20.0	---	104	80-120%	---	---	
trans-1,2-Dichloroethene	20.1	---	0.400	ug/L	1	20.0	---	100	80-120%	---	---	
1,2-Dichloropropane	21.1	---	0.500	ug/L	1	20.0	---	105	80-120%	---	---	
1,3-Dichloropropane	20.5	---	1.00	ug/L	1	20.0	---	103	80-120%	---	---	
2,2-Dichloropropane	16.8	---	1.00	ug/L	1	20.0	---	84	80-120%	---	---	
1,1-Dichloropropene	21.2	---	1.00	ug/L	1	20.0	---	106	80-120%	---	---	
cis-1,3-Dichloropropene	18.5	---	1.00	ug/L	1	20.0	---	92	80-120%	---	---	
trans-1,3-Dichloropropene	19.4	---	1.00	ug/L	1	20.0	---	97	80-120%	---	---	
Ethylbenzene	20.5	---	0.500	ug/L	1	20.0	---	102	80-120%	---	---	
Hexachlorobutadiene	18.1	---	5.00	ug/L	1	20.0	---	90	80-120%	---	---	
2-Hexanone	44.7	---	10.0	ug/L	1	40.0	---	112	80-120%	---	---	
Isopropylbenzene	19.2	---	1.00	ug/L	1	20.0	---	96	80-120%	---	---	
4-Isopropyltoluene	20.0	---	1.00	ug/L	1	20.0	---	100	80-120%	---	---	
Methylene chloride	19.7	---	10.0	ug/L	1	20.0	---	99	80-120%	---	---	
4-Methyl-2-pentanone (MiBK)	47.0	---	10.0	ug/L	1	40.0	---	118	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	16.5	---	1.00	ug/L	1	20.0	---	83	80-120%	---	---	
Naphthalene	19.0	---	5.00	ug/L	1	20.0	---	95	80-120%	---	---	
n-Propylbenzene	20.8	---	0.500	ug/L	1	20.0	---	104	80-120%	---	---	
Styrene	20.4	---	1.00	ug/L	1	20.0	---	102	80-120%	---	---	
1,1,1,2-Tetrachloroethane	19.0	---	0.400	ug/L	1	20.0	---	95	80-120%	---	---	
1,1,2,2-Tetrachloroethane	22.5	---	0.500	ug/L	1	20.0	---	113	80-120%	---	---	
Tetrachloroethene (PCE)	17.8	---	0.400	ug/L	1	20.0	---	89	80-120%	---	---	
Toluene	19.0	---	1.00	ug/L	1	20.0	---	95	80-120%	---	---	
1,2,3-Trichlorobenzene	19.2	---	2.00	ug/L	1	20.0	---	96	80-120%	---	---	
1,2,4-Trichlorobenzene	18.1	---	2.00	ug/L	1	20.0	---	91	80-120%	---	---	
1,1,1-Trichloroethane	19.9	---	0.400	ug/L	1	20.0	---	100	80-120%	---	---	
1,1,2-Trichloroethane	20.1	---	0.500	ug/L	1	20.0	---	100	80-120%	---	---	
Trichloroethene (TCE)	18.5	---	0.400	ug/L	1	20.0	---	92	80-120%	---	---	
Trichlorofluoromethane	36.9	---	2.00	ug/L	1	20.0	---	185	80-120%	---	---	Q-56
1,2,3-Trichloropropane	21.2	---	1.00	ug/L	1	20.0	---	106	80-120%	---	---	
1,2,4-Trimethylbenzene	21.3	---	1.00	ug/L	1	20.0	---	106	80-120%	---	---	
1,3,5-Trimethylbenzene	21.3	---	1.00	ug/L	1	20.0	---	106	80-120%	---	---	

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Project: **Edgewood**Project Number: **185750631**Project Manager: **Patrick Vaughan****Report ID:****A4A1253 - 01 30 24 1356**

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24A0653 - EPA 5030C						Water						
LCS (24A0653-BS1)			Prepared: 01/23/24 10:44		Analyzed: 01/23/24 12:09							
Vinyl chloride	20.6	---	0.200	ug/L	1	20.0	---	103	80-120%	---	---	
m,p-Xylene	41.4	---	1.00	ug/L	1	40.0	---	104	80-120%	---	---	
o-Xylene	19.0	---	0.500	ug/L	1	20.0	---	95	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 100 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		100 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		91 %		80-120 %		"						

Duplicate (24A0653-DUP1)

Prepared: 01/23/24 10:44 Analyzed: 01/23/24 14:43

QC Source Sample: Non-SDG (A4A1179-08)

Acetone	ND	---	20.0	ug/L	1	---	ND	---	---	---	30%
Acrylonitrile	ND	---	2.00	ug/L	1	---	ND	---	---	---	30%
Benzene	ND	---	0.200	ug/L	1	---	ND	---	---	---	30%
Bromobenzene	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%
Bromochloromethane	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%
Bromodichloromethane	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%
Bromoform	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%
Bromomethane	ND	---	5.00	ug/L	1	---	ND	---	---	---	30%
2-Butanone (MEK)	ND	---	10.0	ug/L	1	---	ND	---	---	---	30%
n-Butylbenzene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%
sec-Butylbenzene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%
tert-Butylbenzene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%
Carbon disulfide	ND	---	10.0	ug/L	1	---	ND	---	---	---	30%
Carbon tetrachloride	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%
Chlorobenzene	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%
Chloroethane	ND	---	5.00	ug/L	1	---	ND	---	---	---	30%
Chloroform	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%
Chloromethane	ND	---	5.00	ug/L	1	---	ND	---	---	---	30%
2-Chlorotoluene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%
4-Chlorotoluene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%
Dibromochloromethane	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%
1,2-Dibromo-3-chloropropane	ND	---	5.00	ug/L	1	---	ND	---	---	---	30%
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%
Dibromomethane	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%
1,2-Dichlorobenzene	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Stantec Portland

601 SW 2nd Ave Suite 1400

Portland, OR 97204

Project: **Edgewood**Project Number: **185750631**Project Manager: **Patrick Vaughan****Report ID:****A4A1253 - 01 30 24 1356**

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24A0653 - EPA 5030C						Water						
Duplicate (24A0653-DUP1)			Prepared: 01/23/24 10:44		Analyzed: 01/23/24 14:43							
QC Source Sample: Non-SDG (A4A1179-08)												
1,3-Dichlorobenzene	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	---	0.400	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	---	0.400	ug/L	1	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	---	0.400	ug/L	1	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	---	0.400	ug/L	1	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	---	0.400	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
Ethylbenzene	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	---	5.00	ug/L	1	---	ND	---	---	---	30%	
2-Hexanone	ND	---	10.0	ug/L	1	---	ND	---	---	---	30%	
Isopropylbenzene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
4-Isopropyltoluene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
Methylene chloride	ND	---	10.0	ug/L	1	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	---	10.0	ug/L	1	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
Naphthalene	ND	---	5.00	ug/L	1	---	ND	---	---	---	30%	
n-Propylbenzene	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%	
Styrene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	---	0.400	ug/L	1	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	4.53	---	0.400	ug/L	1	---	4.40	---	---	3	30%	
Toluene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	---	2.00	ug/L	1	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	---	2.00	ug/L	1	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	---	0.400	ug/L	1	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%	

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Philip Nerenberg, Lab Director

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ORELAP ID: OR100062

Stantec Portland

601 SW 2nd Ave Suite 1400

Portland, OR 97204

Project: **Edgewood**Project Number: **185750631**Project Manager: **Patrick Vaughan****Report ID:****A4A1253 - 01 30 24 1356**

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24A0653 - EPA 5030C						Water						
Duplicate (24A0653-DUP1)			Prepared: 01/23/24 10:44		Analyzed: 01/23/24 14:43							
QC Source Sample: Non-SDG (A4A1179-08)												
Trichloroethene (TCE)	ND	---	0.400	ug/L	1	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	---	2.00	ug/L	1	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
Vinyl chloride	ND	---	0.200	ug/L	1	---	ND	---	---	---	30%	
m,p-Xylene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
o-Xylene	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 104 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		104 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		94 %		80-120 %		"						

Duplicate (24A0653-DUP2) Prepared: 01/23/24 10:44 Analyzed: 01/23/24 20:10

QC Source Sample: Non-SDG (A4A1262-29)

Acetone	ND	---	20.0	ug/L	1	---	ND	---	---	---	30%	
Acrylonitrile	ND	---	2.00	ug/L	1	---	ND	---	---	---	30%	
Benzene	ND	---	0.200	ug/L	1	---	ND	---	---	---	30%	
Bromobenzene	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%	
Bromochloromethane	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
Bromodichloromethane	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
Bromoform	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
Bromomethane	ND	---	5.00	ug/L	1	---	ND	---	---	---	30%	
2-Butanone (MEK)	ND	---	10.0	ug/L	1	---	ND	---	---	---	30%	
n-Butylbenzene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
sec-Butylbenzene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
tert-Butylbenzene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
Carbon disulfide	ND	---	10.0	ug/L	1	---	ND	---	---	---	30%	
Carbon tetrachloride	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
Chlorobenzene	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%	
Chloroethane	ND	---	5.00	ug/L	1	---	ND	---	---	---	30%	
Chloroform	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
Chloromethane	ND	---	5.00	ug/L	1	---	ND	---	---	---	30%	
2-Chlorotoluene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	

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ANALYTICAL REPORT

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601 SW 2nd Ave Suite 1400

Portland, OR 97204

Project: **Edgewood**Project Number: **185750631**Project Manager: **Patrick Vaughan****Report ID:****A4A1253 - 01 30 24 1356**

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24A0653 - EPA 5030C						Water						
Duplicate (24A0653-DUP2)			Prepared: 01/23/24 10:44		Analyzed: 01/23/24 20:10							
QC Source Sample: Non-SDG (A4A1262-29)												
4-Chlorotoluene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
Dibromochloromethane	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2-Dibromo-3-chloropropane	ND	---	5.00	ug/L	1	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%	
Dibromomethane	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%	
1,3-Dichlorobenzene	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	---	0.400	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	---	0.400	ug/L	1	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	---	0.400	ug/L	1	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	---	0.400	ug/L	1	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	---	0.400	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
Ethylbenzene	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	---	5.00	ug/L	1	---	ND	---	---	---	30%	
2-Hexanone	ND	---	10.0	ug/L	1	---	ND	---	---	---	30%	
Isopropylbenzene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
4-Isopropyltoluene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
Methylene chloride	ND	---	10.0	ug/L	1	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	---	10.0	ug/L	1	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
Naphthalene	ND	---	5.00	ug/L	1	---	ND	---	---	---	30%	
n-Propylbenzene	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%	
Styrene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	---	0.400	ug/L	1	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%	

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ANALYTICAL REPORT

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Portland, OR 97204

Project: **Edgewood**Project Number: **185750631**Project Manager: **Patrick Vaughan****Report ID:****A4A1253 - 01 30 24 1356**

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24A0653 - EPA 5030C						Water						
Duplicate (24A0653-DUP2)			Prepared: 01/23/24 10:44 Analyzed: 01/23/24 20:10									
QC Source Sample: Non-SDG (A4A1262-29)												
Tetrachloroethene (PCE)	ND	---	0.400	ug/L	1	---	ND	---	---	---	30%	
Toluene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	---	2.00	ug/L	1	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	---	2.00	ug/L	1	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	---	0.400	ug/L	1	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%	
Trichloroethene (TCE)	ND	---	0.400	ug/L	1	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	---	2.00	ug/L	1	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
Vinyl chloride	ND	---	0.200	ug/L	1	---	ND	---	---	---	30%	
m,p-Xylene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
o-Xylene	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 105 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		103 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		93 %		80-120 %		"						

Matrix Spike (24A0653-MS1)

Prepared: 01/23/24 10:44 Analyzed: 01/23/24 21:59

QC Source Sample: Non-SDG (A4A1269-05)**EPA 8260D**

Acetone	80.7	---	20.0	ug/L	1	40.0	50.5	75	39-160%	---	---	
Acrylonitrile	22.7	---	2.00	ug/L	1	20.0	ND	114	63-135%	---	---	
Benzene	20.8	---	0.200	ug/L	1	20.0	ND	104	79-120%	---	---	
Bromobenzene	18.3	---	0.500	ug/L	1	20.0	ND	91	80-120%	---	---	
Bromochloromethane	26.6	---	1.00	ug/L	1	20.0	ND	133	78-123%	---	---	Q-54f
Bromodichloromethane	22.4	---	1.00	ug/L	1	20.0	ND	112	79-125%	---	---	
Bromoform	15.3	---	1.00	ug/L	1	20.0	ND	77	66-130%	---	---	Q-54l
Bromomethane	25.2	---	5.00	ug/L	1	20.0	ND	126	53-141%	---	---	Q-54c
2-Butanone (MEK)	50.7	---	10.0	ug/L	1	40.0	ND	127	56-143%	---	---	Q-54
n-Butylbenzene	23.3	---	1.00	ug/L	1	20.0	ND	116	75-128%	---	---	
sec-Butylbenzene	21.9	---	1.00	ug/L	1	20.0	ND	109	77-126%	---	---	
tert-Butylbenzene	20.5	---	1.00	ug/L	1	20.0	ND	103	78-124%	---	---	

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Stantec Portland

601 SW 2nd Ave Suite 1400

Portland, OR 97204

Project: **Edgewood**Project Number: **185750631**Project Manager: **Patrick Vaughan****Report ID:****A4A1253 - 01 30 24 1356**

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24A0653 - EPA 5030C							Water					
Matrix Spike (24A0653-MS1)							Prepared: 01/23/24 10:44 Analyzed: 01/23/24 21:59					
QC Source Sample: Non-SDG (A4A1269-05)												
Carbon disulfide	18.9	---	10.0	ug/L	1	20.0	ND	95	64-133%	---	---	
Carbon tetrachloride	20.9	---	1.00	ug/L	1	20.0	ND	104	72-136%	---	---	
Chlorobenzene	20.3	---	0.500	ug/L	1	20.0	ND	101	80-120%	---	---	
Chloroethane	50.8	---	5.00	ug/L	1	20.0	ND	254	60-138%	---	---	Q-54j
Chloroform	22.2	---	1.00	ug/L	1	20.0	ND	111	79-124%	---	---	
Chloromethane	35.1	---	5.00	ug/L	1	20.0	ND	176	50-139%	---	---	Q-01
2-Chlorotoluene	19.3	---	1.00	ug/L	1	20.0	ND	96	79-122%	---	---	
4-Chlorotoluene	20.7	---	1.00	ug/L	1	20.0	ND	103	78-122%	---	---	
Dibromochloromethane	19.5	---	1.00	ug/L	1	20.0	ND	98	74-126%	---	---	
1,2-Dibromo-3-chloropropane	15.0	---	5.00	ug/L	1	20.0	ND	75	62-128%	---	---	Q-54m
1,2-Dibromoethane (EDB)	19.7	---	0.500	ug/L	1	20.0	ND	98	77-121%	---	---	
Dibromomethane	21.4	---	1.00	ug/L	1	20.0	ND	107	79-123%	---	---	
1,2-Dichlorobenzene	19.6	---	0.500	ug/L	1	20.0	ND	98	80-120%	---	---	
1,3-Dichlorobenzene	19.5	---	0.500	ug/L	1	20.0	ND	98	80-120%	---	---	
1,4-Dichlorobenzene	19.3	---	0.500	ug/L	1	20.0	ND	96	79-120%	---	---	
Dichlorodifluoromethane	28.6	---	1.00	ug/L	1	20.0	ND	143	32-152%	---	---	
1,1-Dichloroethane	22.7	---	0.400	ug/L	1	20.0	ND	113	77-125%	---	---	
1,2-Dichloroethane (EDC)	24.6	---	0.400	ug/L	1	20.0	ND	123	73-128%	---	---	
1,1-Dichloroethene	25.6	---	0.400	ug/L	1	20.0	ND	128	71-131%	---	---	
cis-1,2-Dichloroethene	21.3	---	0.400	ug/L	1	20.0	ND	107	78-123%	---	---	
trans-1,2-Dichloroethene	22.3	---	0.400	ug/L	1	20.0	ND	111	75-124%	---	---	
1,2-Dichloropropane	21.8	---	0.500	ug/L	1	20.0	ND	109	78-122%	---	---	
1,3-Dichloropropane	21.0	---	1.00	ug/L	1	20.0	ND	105	80-120%	---	---	
2,2-Dichloropropane	16.3	---	1.00	ug/L	1	20.0	ND	81	60-139%	---	---	
1,1-Dichloropropene	23.2	---	1.00	ug/L	1	20.0	ND	116	79-125%	---	---	
cis-1,3-Dichloropropene	16.6	---	1.00	ug/L	1	20.0	ND	83	75-124%	---	---	
trans-1,3-Dichloropropene	19.9	---	1.00	ug/L	1	20.0	ND	100	73-127%	---	---	
Ethylbenzene	21.8	---	0.500	ug/L	1	20.0	ND	109	79-121%	---	---	
Hexachlorobutadiene	18.4	---	5.00	ug/L	1	20.0	ND	92	66-134%	---	---	
2-Hexanone	45.6	---	10.0	ug/L	1	40.0	ND	114	57-139%	---	---	
Isopropylbenzene	20.6	---	1.00	ug/L	1	20.0	ND	103	72-131%	---	---	
4-Isopropyltoluene	21.0	---	1.00	ug/L	1	20.0	ND	105	77-127%	---	---	
Methylene chloride	20.5	---	10.0	ug/L	1	20.0	ND	103	74-124%	---	---	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Stantec Portland

601 SW 2nd Ave Suite 1400

Portland, OR 97204

Project: **Edgewood**Project Number: **185750631**Project Manager: **Patrick Vaughan****Report ID:****A4A1253 - 01 30 24 1356**

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24A0653 - EPA 5030C						Water						
Matrix Spike (24A0653-MS1)			Prepared: 01/23/24 10:44		Analyzed: 01/23/24 21:59							
QC Source Sample: Non-SDG (A4A1269-05)												
4-Methyl-2-pentanone (MiBK)	47.8	---	10.0	ug/L	1	40.0	ND	120	67-130%	---	---	Q-54g
Methyl tert-butyl ether (MTBE)	17.0	---	1.00	ug/L	1	20.0	ND	85	71-124%	---	---	
Naphthalene	20.5	---	5.00	ug/L	1	20.0	ND	102	61-128%	---	---	
n-Propylbenzene	21.8	---	0.500	ug/L	1	20.0	ND	109	76-126%	---	---	
Styrene	20.8	---	1.00	ug/L	1	20.0	ND	104	78-123%	---	---	
1,1,1,2-Tetrachloroethane	19.5	---	0.400	ug/L	1	20.0	ND	98	78-124%	---	---	
1,1,2,2-Tetrachloroethane	23.7	---	0.500	ug/L	1	20.0	ND	119	71-121%	---	---	
Tetrachloroethene (PCE)	19.2	---	0.400	ug/L	1	20.0	ND	96	74-129%	---	---	
Toluene	20.6	---	1.00	ug/L	1	20.0	ND	103	80-121%	---	---	
1,2,3-Trichlorobenzene	20.7	---	2.00	ug/L	1	20.0	ND	103	69-129%	---	---	
1,2,4-Trichlorobenzene	19.3	---	2.00	ug/L	1	20.0	ND	97	69-130%	---	---	
1,1,1-Trichloroethane	21.6	---	0.400	ug/L	1	20.0	ND	108	74-131%	---	---	
1,1,2-Trichloroethane	20.5	---	0.500	ug/L	1	20.0	ND	103	80-120%	---	---	
Trichloroethene (TCE)	18.9	---	0.400	ug/L	1	20.0	ND	95	79-123%	---	---	
Trichlorofluoromethane	44.5	---	2.00	ug/L	1	20.0	ND	223	65-141%	---	---	
1,2,3-Trichloropropane	21.1	---	1.00	ug/L	1	20.0	ND	105	73-122%	---	---	
1,2,4-Trimethylbenzene	22.3	---	1.00	ug/L	1	20.0	ND	112	76-124%	---	---	
1,3,5-Trimethylbenzene	22.1	---	1.00	ug/L	1	20.0	ND	110	75-124%	---	---	
Vinyl chloride	25.0	---	0.200	ug/L	1	20.0	ND	125	58-137%	---	---	
m,p-Xylene	43.8	---	1.00	ug/L	1	40.0	ND	110	80-121%	---	---	
o-Xylene	20.1	---	0.500	ug/L	1	20.0	ND	100	78-122%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery:		99 %		Limits:		80-120 %		Dilution: 1x		
Toluene-d8 (Surr)				98 %				80-120 %		"		
4-Bromofluorobenzene (Surr)				90 %				80-120 %		"		

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Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Stantec Portland

601 SW 2nd Ave Suite 1400

Portland, OR 97204

Project: **Edgewood**Project Number: **185750631**Project Manager: **Patrick Vaughan****Report ID:****A4A1253 - 01 30 24 1356**

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24A0682 - EPA 5035A						Soil						
Blank (24A0682-BLK1)			Prepared: 01/23/24 08:56		Analyzed: 01/23/24 14:25							
5035A/8260D												
Acetone	ND	---	1000	ug/kg wet	50	---	---	---	---	---	---	
Acrylonitrile	ND	---	100	ug/kg wet	50	---	---	---	---	---	---	
Benzene	ND	---	10.0	ug/kg wet	50	---	---	---	---	---	---	
Bromobenzene	ND	---	25.0	ug/kg wet	50	---	---	---	---	---	---	
Bromochloromethane	ND	---	50.0	ug/kg wet	50	---	---	---	---	---	---	
Bromodichloromethane	ND	---	50.0	ug/kg wet	50	---	---	---	---	---	---	
Bromoform	ND	---	100	ug/kg wet	50	---	---	---	---	---	---	
Bromomethane	ND	---	500	ug/kg wet	50	---	---	---	---	---	---	
2-Butanone (MEK)	ND	---	500	ug/kg wet	50	---	---	---	---	---	---	
n-Butylbenzene	ND	---	50.0	ug/kg wet	50	---	---	---	---	---	---	
sec-Butylbenzene	ND	---	50.0	ug/kg wet	50	---	---	---	---	---	---	
tert-Butylbenzene	ND	---	50.0	ug/kg wet	50	---	---	---	---	---	---	
Carbon disulfide	ND	---	500	ug/kg wet	50	---	---	---	---	---	---	
Carbon tetrachloride	ND	---	50.0	ug/kg wet	50	---	---	---	---	---	---	
Chlorobenzene	ND	---	25.0	ug/kg wet	50	---	---	---	---	---	---	
Chloroethane	ND	---	500	ug/kg wet	50	---	---	---	---	---	---	
Chloroform	ND	---	50.0	ug/kg wet	50	---	---	---	---	---	---	
Chloromethane	ND	---	250	ug/kg wet	50	---	---	---	---	---	---	
2-Chlorotoluene	ND	---	50.0	ug/kg wet	50	---	---	---	---	---	---	
4-Chlorotoluene	ND	---	50.0	ug/kg wet	50	---	---	---	---	---	---	
Dibromochloromethane	ND	---	100	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dibromo-3-chloropropane	ND	---	250	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	---	50.0	ug/kg wet	50	---	---	---	---	---	---	
Dibromomethane	ND	---	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	---	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	---	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	---	25.0	ug/kg wet	50	---	---	---	---	---	---	
Dichlorodifluoromethane	ND	---	100	ug/kg wet	50	---	---	---	---	---	---	
1,1-Dichloroethane	ND	---	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	---	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,1-Dichloroethene	ND	---	25.0	ug/kg wet	50	---	---	---	---	---	---	
cis-1,2-Dichloroethene	ND	---	25.0	ug/kg wet	50	---	---	---	---	---	---	
trans-1,2-Dichloroethene	ND	---	25.0	ug/kg wet	50	---	---	---	---	---	---	

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ANALYTICAL REPORT

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6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Stantec Portland

601 SW 2nd Ave Suite 1400

Portland, OR 97204

Project: **Edgewood**Project Number: **185750631**Project Manager: **Patrick Vaughan****Report ID:****A4A1253 - 01 30 24 1356**

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24A0682 - EPA 5035A						Soil						
Blank (24A0682-BLK1)						Prepared: 01/23/24 08:56 Analyzed: 01/23/24 14:25						
1,2-Dichloropropane	ND	---	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,3-Dichloropropane	ND	---	50.0	ug/kg wet	50	---	---	---	---	---	---	
2,2-Dichloropropane	ND	---	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,1-Dichloropropene	ND	---	50.0	ug/kg wet	50	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	---	50.0	ug/kg wet	50	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	---	50.0	ug/kg wet	50	---	---	---	---	---	---	
Ethylbenzene	ND	---	25.0	ug/kg wet	50	---	---	---	---	---	---	
Hexachlorobutadiene	ND	---	100	ug/kg wet	50	---	---	---	---	---	---	
2-Hexanone	ND	---	500	ug/kg wet	50	---	---	---	---	---	---	
Isopropylbenzene	ND	---	50.0	ug/kg wet	50	---	---	---	---	---	---	
4-Isopropyltoluene	ND	---	50.0	ug/kg wet	50	---	---	---	---	---	---	
Methylene chloride	ND	---	500	ug/kg wet	50	---	---	---	---	---	---	
4-Methyl-2-pentanone (MiBK)	ND	---	500	ug/kg wet	50	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	---	50.0	ug/kg wet	50	---	---	---	---	---	---	
Naphthalene	ND	---	100	ug/kg wet	50	---	---	---	---	---	---	
n-Propylbenzene	ND	---	25.0	ug/kg wet	50	---	---	---	---	---	---	
Styrene	ND	---	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	---	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	---	50.0	ug/kg wet	50	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	---	25.0	ug/kg wet	50	---	---	---	---	---	---	
Toluene	ND	---	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	---	250	ug/kg wet	50	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	---	250	ug/kg wet	50	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	---	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	---	25.0	ug/kg wet	50	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	---	25.0	ug/kg wet	50	---	---	---	---	---	---	
Trichlorofluoromethane	ND	---	100	ug/kg wet	50	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	---	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	---	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	---	50.0	ug/kg wet	50	---	---	---	---	---	---	
Vinyl chloride	ND	---	25.0	ug/kg wet	50	---	---	---	---	---	---	
m,p-Xylene	ND	---	50.0	ug/kg wet	50	---	---	---	---	---	---	
o-Xylene	ND	---	25.0	ug/kg wet	50	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr) Recovery: 97 % Limits: 80-120 % Dilution: 1x												

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ANALYTICAL REPORT

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Portland, OR 97204

Project: **Edgewood**Project Number: **185750631**Project Manager: **Patrick Vaughan****Report ID:****A4A1253 - 01 30 24 1356**

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes				
Batch 24A0682 - EPA 5035A						Soil										
Blank (24A0682-BLK1)						Prepared: 01/23/24 08:56 Analyzed: 01/23/24 14:25										
Surr: Toluene-d8 (Surr)		Recovery: 106 %		Limits: 80-120 %		Dilution: 1x										
4-Bromofluorobenzene (Surr)		96 %		79-120 %		"										
LCS (24A0682-BS1)						Prepared: 01/23/24 08:56 Analyzed: 01/23/24 13:32										
5035A/8260D																
Acetone	2130	---	1000	ug/kg wet	50	2000	---	107	80-120%	---	---					
Acrylonitrile	1110	---	100	ug/kg wet	50	1000	---	111	80-120%	---	---					
Benzene	1080	---	10.0	ug/kg wet	50	1000	---	108	80-120%	---	---					
Bromobenzene	1020	---	25.0	ug/kg wet	50	1000	---	102	80-120%	---	---					
Bromochloromethane	1180	---	50.0	ug/kg wet	50	1000	---	118	80-120%	---	---					
Bromodichloromethane	1110	---	50.0	ug/kg wet	50	1000	---	111	80-120%	---	---					
Bromoform	1070	---	100	ug/kg wet	50	1000	---	107	80-120%	---	---					
Bromomethane	1290	---	500	ug/kg wet	50	1000	---	129	80-120%	---	---	Q-56				
2-Butanone (MEK)	2170	---	500	ug/kg wet	50	2000	---	109	80-120%	---	---					
n-Butylbenzene	1150	---	50.0	ug/kg wet	50	1000	---	115	80-120%	---	---					
sec-Butylbenzene	1170	---	50.0	ug/kg wet	50	1000	---	117	80-120%	---	---					
tert-Butylbenzene	1130	---	50.0	ug/kg wet	50	1000	---	113	80-120%	---	---					
Carbon disulfide	1220	---	500	ug/kg wet	50	1000	---	122	80-120%	---	---	Q-56				
Carbon tetrachloride	1080	---	50.0	ug/kg wet	50	1000	---	108	80-120%	---	---					
Chlorobenzene	1050	---	25.0	ug/kg wet	50	1000	---	105	80-120%	---	---					
Chloroethane	1140	---	500	ug/kg wet	50	1000	---	114	80-120%	---	---					
Chloroform	1120	---	50.0	ug/kg wet	50	1000	---	112	80-120%	---	---					
Chloromethane	1030	---	250	ug/kg wet	50	1000	---	103	80-120%	---	---					
2-Chlorotoluene	1070	---	50.0	ug/kg wet	50	1000	---	107	80-120%	---	---					
4-Chlorotoluene	1180	---	50.0	ug/kg wet	50	1000	---	118	80-120%	---	---					
Dibromochloromethane	1050	---	100	ug/kg wet	50	1000	---	105	80-120%	---	---					
1,2-Dibromo-3-chloropropane	1040	---	250	ug/kg wet	50	1000	---	104	80-120%	---	---					
1,2-Dibromoethane (EDB)	1050	---	50.0	ug/kg wet	50	1000	---	105	80-120%	---	---					
Dibromomethane	1030	---	50.0	ug/kg wet	50	1000	---	103	80-120%	---	---					
1,2-Dichlorobenzene	1090	---	25.0	ug/kg wet	50	1000	---	109	80-120%	---	---					
1,3-Dichlorobenzene	1080	---	25.0	ug/kg wet	50	1000	---	108	80-120%	---	---					
1,4-Dichlorobenzene	1070	---	25.0	ug/kg wet	50	1000	---	107	80-120%	---	---					
Dichlorodifluoromethane	884	---	100	ug/kg wet	50	1000	---	88	80-120%	---	---					
1,1-Dichloroethane	1160	---	25.0	ug/kg wet	50	1000	---	116	80-120%	---	---					

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ANALYTICAL REPORT

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ORELAP ID: OR100062

Stantec Portland

601 SW 2nd Ave Suite 1400

Portland, OR 97204

Project: Edgewood

Project Number: 185750631

Project Manager: Patrick Vaughan

Report ID:

A4A1253 - 01 30 24 1356

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24A0682 - EPA 5035A							Soil					
LCS (24A0682-BS1)				Prepared: 01/23/24 08:56 Analyzed: 01/23/24 13:32								
1,2-Dichloroethane (EDC)	1140	---	25.0	ug/kg wet	50	1000	---	114	80-120%	---	---	Q-56
1,1-Dichloroethene	1310	---	25.0	ug/kg wet	50	1000	---	131	80-120%	---	---	
cis-1,2-Dichloroethene	1130	---	25.0	ug/kg wet	50	1000	---	113	80-120%	---	---	
trans-1,2-Dichloroethene	1150	---	25.0	ug/kg wet	50	1000	---	115	80-120%	---	---	
1,2-Dichloropropane	1130	---	25.0	ug/kg wet	50	1000	---	113	80-120%	---	---	Q-56
1,3-Dichloropropane	1120	---	50.0	ug/kg wet	50	1000	---	112	80-120%	---	---	
2,2-Dichloropropane	1180	---	50.0	ug/kg wet	50	1000	---	118	80-120%	---	---	
1,1-Dichloropropene	1060	---	50.0	ug/kg wet	50	1000	---	106	80-120%	---	---	
cis-1,3-Dichloropropene	1200	---	50.0	ug/kg wet	50	1000	---	120	80-120%	---	---	Q-56
trans-1,3-Dichloropropene	1200	---	50.0	ug/kg wet	50	1000	---	120	80-120%	---	---	
Ethylbenzene	1060	---	25.0	ug/kg wet	50	1000	---	106	80-120%	---	---	
Hexachlorobutadiene	919	---	100	ug/kg wet	50	1000	---	92	80-120%	---	---	
2-Hexanone	1950	---	500	ug/kg wet	50	2000	---	98	80-120%	---	---	Q-56
Isopropylbenzene	1060	---	50.0	ug/kg wet	50	1000	---	106	80-120%	---	---	
4-Isopropyltoluene	1110	---	50.0	ug/kg wet	50	1000	---	111	80-120%	---	---	
Methylene chloride	1030	---	500	ug/kg wet	50	1000	---	103	80-120%	---	---	
4-Methyl-2-pentanone (MiBK)	2290	---	500	ug/kg wet	50	2000	---	114	80-120%	---	---	Q-56
Methyl tert-butyl ether (MTBE)	1040	---	50.0	ug/kg wet	50	1000	---	104	80-120%	---	---	
Naphthalene	834	---	100	ug/kg wet	50	1000	---	83	80-120%	---	---	
n-Propylbenzene	1180	---	25.0	ug/kg wet	50	1000	---	118	80-120%	---	---	
Styrene	921	---	50.0	ug/kg wet	50	1000	---	92	80-120%	---	---	Q-56
1,1,1,2-Tetrachloroethane	1080	---	25.0	ug/kg wet	50	1000	---	108	80-120%	---	---	
1,1,2,2-Tetrachloroethane	1220	---	50.0	ug/kg wet	50	1000	---	122	80-120%	---	---	
Tetrachloroethene (PCE)	962	---	25.0	ug/kg wet	50	1000	---	96	80-120%	---	---	
Toluene	1060	---	50.0	ug/kg wet	50	1000	---	106	80-120%	---	---	Q-56
1,2,3-Trichlorobenzene	965	---	250	ug/kg wet	50	1000	---	96	80-120%	---	---	
1,2,4-Trichlorobenzene	928	---	250	ug/kg wet	50	1000	---	93	80-120%	---	---	
1,1,1-Trichloroethane	1100	---	25.0	ug/kg wet	50	1000	---	110	80-120%	---	---	
1,1,2-Trichloroethane	1130	---	25.0	ug/kg wet	50	1000	---	113	80-120%	---	---	Q-56
Trichloroethene (TCE)	982	---	25.0	ug/kg wet	50	1000	---	98	80-120%	---	---	
Trichlorofluoromethane	1020	---	100	ug/kg wet	50	1000	---	102	80-120%	---	---	
1,2,3-Trichloropropane	1100	---	50.0	ug/kg wet	50	1000	---	110	80-120%	---	---	
1,2,4-Trimethylbenzene	1190	---	50.0	ug/kg wet	50	1000	---	119	80-120%	---	---	Q-56
1,3,5-Trimethylbenzene	1210	---	50.0	ug/kg wet	50	1000	---	121	80-120%	---	---	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Stantec Portland

601 SW 2nd Ave Suite 1400

Portland, OR 97204

Project: **Edgewood**Project Number: **185750631**Project Manager: **Patrick Vaughan****Report ID:****A4A1253 - 01 30 24 1356**

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24A0682 - EPA 5035A						Soil						
LCS (24A0682-BS1)			Prepared: 01/23/24 08:56		Analyzed: 01/23/24 13:32							
Vinyl chloride	1190	---	25.0	ug/kg wet	50	1000	---	119	80-120%	---	---	
m,p-Xylene	2220	---	50.0	ug/kg wet	50	2000	---	111	80-120%	---	---	
o-Xylene	1050	---	25.0	ug/kg wet	50	1000	---	105	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 97 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		106 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		93 %		79-120 %		"						

Duplicate (24A0682-DUP1)

Prepared: 01/19/24 09:45 Analyzed: 01/23/24 17:27

QC Source Sample: Non-SDG (A4A1248-03RE1)

Acetone	ND	---	961	ug/kg wet	50	---	ND	---	---	---	30%
Acrylonitrile	ND	---	96.1	ug/kg wet	50	---	ND	---	---	---	30%
Benzene	ND	---	9.61	ug/kg wet	50	---	ND	---	---	---	30%
Bromobenzene	ND	---	24.0	ug/kg wet	50	---	ND	---	---	---	30%
Bromochloromethane	ND	---	48.1	ug/kg wet	50	---	ND	---	---	---	30%
Bromodichloromethane	ND	---	48.1	ug/kg wet	50	---	ND	---	---	---	30%
Bromoform	ND	---	96.1	ug/kg wet	50	---	ND	---	---	---	30%
Bromomethane	ND	---	481	ug/kg wet	50	---	ND	---	---	---	30%
2-Butanone (MEK)	ND	---	481	ug/kg wet	50	---	ND	---	---	---	30%
n-Butylbenzene	ND	---	48.1	ug/kg wet	50	---	ND	---	---	---	30%
sec-Butylbenzene	ND	---	48.1	ug/kg wet	50	---	ND	---	---	---	30%
tert-Butylbenzene	ND	---	48.1	ug/kg wet	50	---	ND	---	---	---	30%
Carbon disulfide	ND	---	481	ug/kg wet	50	---	ND	---	---	---	30%
Carbon tetrachloride	ND	---	48.1	ug/kg wet	50	---	ND	---	---	---	30%
Chlorobenzene	ND	---	24.0	ug/kg wet	50	---	ND	---	---	---	30%
Chloroethane	ND	---	481	ug/kg wet	50	---	ND	---	---	---	30%
Chloroform	ND	---	48.1	ug/kg wet	50	---	ND	---	---	---	30%
Chloromethane	ND	---	240	ug/kg wet	50	---	ND	---	---	---	30%
2-Chlorotoluene	ND	---	48.1	ug/kg wet	50	---	ND	---	---	---	30%
4-Chlorotoluene	ND	---	48.1	ug/kg wet	50	---	ND	---	---	---	30%
Dibromochloromethane	ND	---	96.1	ug/kg wet	50	---	ND	---	---	---	30%
1,2-Dibromo-3-chloropropane	ND	---	240	ug/kg wet	50	---	ND	---	---	---	30%
1,2-Dibromoethane (EDB)	ND	---	48.1	ug/kg wet	50	---	ND	---	---	---	30%
Dibromomethane	ND	---	48.1	ug/kg wet	50	---	ND	---	---	---	30%
1,2-Dichlorobenzene	ND	---	24.0	ug/kg wet	50	---	ND	---	---	---	30%

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ANALYTICAL REPORT

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Portland, OR 97204

Project: **Edgewood**Project Number: **185750631**Project Manager: **Patrick Vaughan****Report ID:****A4A1253 - 01 30 24 1356**

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24A0682 - EPA 5035A						Soil						
Duplicate (24A0682-DUP1)						Prepared: 01/19/24 09:45 Analyzed: 01/23/24 17:27						
QC Source Sample: Non-SDG (A4A1248-03RE1)												
1,3-Dichlorobenzene	ND	---	24.0	ug/kg wet	50	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	---	24.0	ug/kg wet	50	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	---	96.1	ug/kg wet	50	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	---	24.0	ug/kg wet	50	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	---	24.0	ug/kg wet	50	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	---	24.0	ug/kg wet	50	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	---	24.0	ug/kg wet	50	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	---	24.0	ug/kg wet	50	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	---	24.0	ug/kg wet	50	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	---	48.1	ug/kg wet	50	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	---	48.1	ug/kg wet	50	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	---	48.1	ug/kg wet	50	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	---	48.1	ug/kg wet	50	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	---	48.1	ug/kg wet	50	---	ND	---	---	---	30%	
Ethylbenzene	ND	---	24.0	ug/kg wet	50	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	---	96.1	ug/kg wet	50	---	ND	---	---	---	30%	
2-Hexanone	ND	---	48.1	ug/kg wet	50	---	ND	---	---	---	30%	
Isopropylbenzene	ND	---	48.1	ug/kg wet	50	---	ND	---	---	---	30%	
4-Isopropyltoluene	ND	---	48.1	ug/kg wet	50	---	ND	---	---	---	30%	
Methylene chloride	ND	---	48.1	ug/kg wet	50	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MIBK)	ND	---	48.1	ug/kg wet	50	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	---	48.1	ug/kg wet	50	---	ND	---	---	---	30%	
Naphthalene	ND	---	96.1	ug/kg wet	50	---	ND	---	---	---	30%	
n-Propylbenzene	ND	---	24.0	ug/kg wet	50	---	ND	---	---	---	30%	
Styrene	ND	---	48.1	ug/kg wet	50	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	---	24.0	ug/kg wet	50	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	---	48.1	ug/kg wet	50	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	ND	---	24.0	ug/kg wet	50	---	ND	---	---	---	30%	
Toluene	ND	---	48.1	ug/kg wet	50	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	---	24.0	ug/kg wet	50	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	---	24.0	ug/kg wet	50	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	---	24.0	ug/kg wet	50	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	---	24.0	ug/kg wet	50	---	ND	---	---	---	30%	

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ANALYTICAL REPORT

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Portland, OR 97204

Project: **Edgewood**Project Number: **185750631**Project Manager: **Patrick Vaughan****Report ID:****A4A1253 - 01 30 24 1356**

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24A0682 - EPA 5035A						Soil						
Duplicate (24A0682-DUP1)			Prepared: 01/19/24 09:45 Analyzed: 01/23/24 17:27									
QC Source Sample: Non-SDG (A4A1248-03RE1)												
Trichloroethene (TCE)	ND	---	24.0	ug/kg wet	50	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	---	96.1	ug/kg wet	50	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	---	48.1	ug/kg wet	50	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	---	48.1	ug/kg wet	50	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	---	48.1	ug/kg wet	50	---	ND	---	---	---	30%	
Vinyl chloride	ND	---	24.0	ug/kg wet	50	---	ND	---	---	---	30%	
m,p-Xylene	ND	---	48.1	ug/kg wet	50	---	ND	---	---	---	30%	
o-Xylene	ND	---	24.0	ug/kg wet	50	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 100 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		105 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		94 %		79-120 %		"						

Duplicate (24A0682-DUP2)			Prepared: 01/11/24 16:00 Analyzed: 01/23/24 18:18								CONT
<u>QC Source Sample: Drum-S-Edge (A4A1253-08RE1)</u>											
<u>5035A/8260D</u>											
Acetone	ND	---	1720	ug/kg dry	50	---	ND	---	---	---	30%
Acrylonitrile	ND	---	172	ug/kg dry	50	---	ND	---	---	---	30%
Benzene	ND	---	17.2	ug/kg dry	50	---	15.5	---	---	***	30%
Bromobenzene	ND	---	43.0	ug/kg dry	50	---	ND	---	---	---	30%
Bromochloromethane	ND	---	86.0	ug/kg dry	50	---	ND	---	---	---	30%
Bromodichloromethane	ND	---	86.0	ug/kg dry	50	---	ND	---	---	---	30%
Bromoform	ND	---	172	ug/kg dry	50	---	ND	---	---	---	30%
Bromomethane	ND	---	860	ug/kg dry	50	---	ND	---	---	---	30%
2-Butanone (MEK)	ND	---	860	ug/kg dry	50	---	ND	---	---	---	30%
n-Butylbenzene	ND	---	86.0	ug/kg dry	50	---	ND	---	---	---	30%
sec-Butylbenzene	ND	---	86.0	ug/kg dry	50	---	ND	---	---	---	30%
tert-Butylbenzene	ND	---	86.0	ug/kg dry	50	---	ND	---	---	---	30%
Carbon disulfide	ND	---	860	ug/kg dry	50	---	ND	---	---	---	30%
Carbon tetrachloride	ND	---	86.0	ug/kg dry	50	---	ND	---	---	---	30%
Chlorobenzene	ND	---	43.0	ug/kg dry	50	---	ND	---	---	---	30%
Chloroethane	ND	---	860	ug/kg dry	50	---	ND	---	---	---	30%
Chloroform	ND	---	86.0	ug/kg dry	50	---	ND	---	---	---	30%
Chloromethane	ND	---	430	ug/kg dry	50	---	ND	---	---	---	30%

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ANALYTICAL REPORT

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Portland, OR 97204

Project: **Edgewood**Project Number: **185750631**Project Manager: **Patrick Vaughan****Report ID:****A4A1253 - 01 30 24 1356**

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24A0682 - EPA 5035A						Soil						
Duplicate (24A0682-DUP2)						Prepared: 01/11/24 16:00 Analyzed: 01/23/24 18:18						CONT
QC Source Sample: Drum-S-Edge (A4A1253-08RE1)												
2-Chlorotoluene	ND	---	86.0	ug/kg dry	50	---	ND	---	---	---	30%	
4-Chlorotoluene	ND	---	86.0	ug/kg dry	50	---	ND	---	---	---	30%	
Dibromochloromethane	ND	---	172	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dibromo-3-chloropropane	ND	---	430	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	---	86.0	ug/kg dry	50	---	ND	---	---	---	30%	
Dibromomethane	ND	---	86.0	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	---	43.0	ug/kg dry	50	---	ND	---	---	---	30%	
1,3-Dichlorobenzene	ND	---	43.0	ug/kg dry	50	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	---	43.0	ug/kg dry	50	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	---	172	ug/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	---	43.0	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	---	43.0	ug/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	---	43.0	ug/kg dry	50	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	---	43.0	ug/kg dry	50	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	---	43.0	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	---	43.0	ug/kg dry	50	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	---	86.0	ug/kg dry	50	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	---	86.0	ug/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	---	86.0	ug/kg dry	50	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	---	86.0	ug/kg dry	50	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	---	86.0	ug/kg dry	50	---	ND	---	---	---	30%	
Ethylbenzene	44.7	---	43.0	ug/kg dry	50	---	44.7	---	---	0	30%	
Hexachlorobutadiene	ND	---	172	ug/kg dry	50	---	ND	---	---	---	30%	
2-Hexanone	ND	---	86.0	ug/kg dry	50	---	ND	---	---	---	30%	
Isopropylbenzene	ND	---	86.0	ug/kg dry	50	---	ND	---	---	---	30%	
4-Isopropyltoluene	ND	---	86.0	ug/kg dry	50	---	ND	---	---	---	30%	
Methylene chloride	ND	---	86.0	ug/kg dry	50	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MIBK)	ND	---	86.0	ug/kg dry	50	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	---	86.0	ug/kg dry	50	---	ND	---	---	---	30%	
Naphthalene	ND	---	172	ug/kg dry	50	---	ND	---	---	---	30%	
n-Propylbenzene	ND	---	43.0	ug/kg dry	50	---	ND	---	---	---	30%	
Styrene	ND	---	86.0	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	---	43.0	ug/kg dry	50	---	ND	---	---	---	30%	

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Project: **Edgewood**Project Number: **185750631**Project Manager: **Patrick Vaughan****Report ID:****A4A1253 - 01 30 24 1356**

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24A0682 - EPA 5035A						Soil						
Duplicate (24A0682-DUP2)			Prepared: 01/11/24 16:00		Analyzed: 01/23/24 18:18		CONT					
QC Source Sample: Drum-S-Edge (A4A1253-08RE1)												
1,1,2,2-Tetrachloroethane	ND	---	86.0	ug/kg dry	50	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	96.3	---	43.0	ug/kg dry	50	---	103	---	---	7	30%	
Toluene	217	---	86.0	ug/kg dry	50	---	232	---	---	7	30%	
1,2,3-Trichlorobenzene	ND	---	430	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	---	430	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	---	43.0	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	---	43.0	ug/kg dry	50	---	ND	---	---	---	30%	
Trichloroethene (TCE)	ND	---	43.0	ug/kg dry	50	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	---	172	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	---	86.0	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	91.1	---	86.0	ug/kg dry	50	---	98.9	---	---	8	30%	
1,3,5-Trimethylbenzene	ND	---	86.0	ug/kg dry	50	---	ND	---	---	---	30%	
Vinyl chloride	ND	---	43.0	ug/kg dry	50	---	ND	---	---	---	30%	
m,p-Xylene	211	---	86.0	ug/kg dry	50	---	226	---	---	7	30%	
o-Xylene	45.6	---	43.0	ug/kg dry	50	---	50.7	---	---	11	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 100 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		103 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		108 %		79-120 %		"						

Matrix Spike (24A0682-MS1)

Prepared: 01/15/24 12:00 Analyzed: 01/23/24 21:44

QC Source Sample: Non-SDG (A4A1252-07RE1)**5035A/8260D**

Acetone	1840	---	772	ug/kg wet	50	1990	ND	92	36-164%	---	---	
Acrylonitrile	875	---	77.2	ug/kg wet	50	997	ND	88	65-134%	---	---	
Benzene	910	---	7.72	ug/kg wet	50	997	34.0	88	77-121%	---	---	
Bromobenzene	753	---	19.3	ug/kg wet	50	997	ND	76	78-121%	---	---	
Bromochloromethane	991	---	38.6	ug/kg wet	50	997	ND	99	78-125%	---	---	Q-01
Bromodichloromethane	891	---	38.6	ug/kg wet	50	997	ND	89	75-127%	---	---	
Bromoform	804	---	77.2	ug/kg wet	50	997	ND	81	67-132%	---	---	
Bromomethane	1130	---	386	ug/kg wet	50	997	ND	113	53-143%	---	---	Q-54i
2-Butanone (MEK)	1780	---	386	ug/kg wet	50	1990	ND	89	51-148%	---	---	
n-Butylbenzene	864	---	38.6	ug/kg wet	50	997	ND	87	70-128%	---	---	
sec-Butylbenzene	867	---	38.6	ug/kg wet	50	997	ND	87	73-126%	---	---	

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Philip Nerenberg, Lab Director

Page 56 of 69



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Stantec Portland

601 SW 2nd Ave Suite 1400

Portland, OR 97204

Project: **Edgewood**Project Number: **185750631**Project Manager: **Patrick Vaughan****Report ID:****A4A1253 - 01 30 24 1356**

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24A0682 - EPA 5035A							Soil					
Matrix Spike (24A0682-MS1)							Prepared: 01/15/24 12:00 Analyzed: 01/23/24 21:44					
QC Source Sample: Non-SDG (A4A1252-07RE1)												
tert-Butylbenzene	834	---	38.6	ug/kg wet	50	997	ND	84	73-125%	---	---	Q-54b
Carbon disulfide	1100	---	386	ug/kg wet	50	997	ND	110	63-132%	---	---	
Carbon tetrachloride	884	---	38.6	ug/kg wet	50	997	ND	89	70-135%	---	---	
Chlorobenzene	811	---	19.3	ug/kg wet	50	997	ND	81	79-120%	---	---	
Chloroethane	1060	---	386	ug/kg wet	50	997	ND	106	59-139%	---	---	Q-54a
Chloroform	908	---	38.6	ug/kg wet	50	997	ND	91	78-123%	---	---	
Chloromethane	869	---	193	ug/kg wet	50	997	ND	87	50-136%	---	---	
2-Chlorotoluene	795	---	38.6	ug/kg wet	50	997	ND	80	75-122%	---	---	
4-Chlorotoluene	879	---	38.6	ug/kg wet	50	997	ND	88	72-124%	---	---	Q-54a
Dibromochloromethane	799	---	77.2	ug/kg wet	50	997	ND	80	74-126%	---	---	
1,2-Dibromo-3-chloropropane	755	---	193	ug/kg wet	50	997	ND	76	61-132%	---	---	
1,2-Dibromoethane (EDB)	791	---	38.6	ug/kg wet	50	997	ND	79	78-122%	---	---	
Dibromomethane	840	---	38.6	ug/kg wet	50	997	ND	84	78-125%	---	---	Q-54a
1,2-Dichlorobenzene	795	---	19.3	ug/kg wet	50	997	ND	80	78-121%	---	---	
1,3-Dichlorobenzene	814	---	19.3	ug/kg wet	50	997	ND	82	77-121%	---	---	
1,4-Dichlorobenzene	797	---	19.3	ug/kg wet	50	997	ND	80	75-120%	---	---	
Dichlorodifluoromethane	738	---	77.2	ug/kg wet	50	997	ND	74	29-149%	---	---	Q-54a
1,1-Dichloroethane	949	---	19.3	ug/kg wet	50	997	ND	95	76-125%	---	---	
1,2-Dichloroethane (EDC)	919	---	19.3	ug/kg wet	50	997	ND	92	73-128%	---	---	
1,1-Dichloroethene	1150	---	19.3	ug/kg wet	50	997	ND	115	70-131%	---	---	
cis-1,2-Dichloroethene	883	---	19.3	ug/kg wet	50	997	ND	89	77-123%	---	---	Q-54a
trans-1,2-Dichloroethene	922	---	19.3	ug/kg wet	50	997	ND	93	74-125%	---	---	
1,2-Dichloropropane	896	---	19.3	ug/kg wet	50	997	ND	90	76-123%	---	---	
1,3-Dichloropropane	843	---	38.6	ug/kg wet	50	997	ND	85	77-121%	---	---	
2,2-Dichloropropane	861	---	38.6	ug/kg wet	50	997	ND	86	67-133%	---	---	Q-54a
1,1-Dichloropropene	840	---	38.6	ug/kg wet	50	997	ND	84	76-125%	---	---	
cis-1,3-Dichloropropene	889	---	38.6	ug/kg wet	50	997	ND	89	74-126%	---	---	
trans-1,3-Dichloropropene	889	---	38.6	ug/kg wet	50	997	ND	89	71-130%	---	---	
Ethylbenzene	806	---	19.3	ug/kg wet	50	997	ND	81	76-122%	---	---	Q-54a
Hexachlorobutadiene	684	---	77.2	ug/kg wet	50	997	ND	69	61-135%	---	---	
2-Hexanone	1410	---	386	ug/kg wet	50	1990	ND	71	53-145%	---	---	
Isopropylbenzene	774	---	38.6	ug/kg wet	50	997	ND	78	68-134%	---	---	
4-Isopropyltoluene	809	---	38.6	ug/kg wet	50	997	ND	81	73-127%	---	---	Q-54a

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Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Stantec Portland

601 SW 2nd Ave Suite 1400

Portland, OR 97204

Project: Edgewood

Project Number: 185750631

Project Manager: Patrick Vaughan

Report ID:

A4A1253 - 01 30 24 1356

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24A0682 - EPA 5035A						Soil						
Matrix Spike (24A0682-MS1)			Prepared: 01/15/24 12:00		Analyzed: 01/23/24 21:44							
QC Source Sample: Non-SDG (A4A1252-07RE1)												
Methylene chloride	851	---	386	ug/kg wet	50	997	ND	85	70-128%	---	---	
4-Methyl-2-pentanone (MiBK)	1740	---	386	ug/kg wet	50	1990	ND	88	65-135%	---	---	
Methyl tert-butyl ether (MTBE)	782	---	38.6	ug/kg wet	50	997	ND	78	73-125%	---	---	
Naphthalene	552	---	77.2	ug/kg wet	50	997	ND	55	62-129%	---	---	
n-Propylbenzene	894	---	19.3	ug/kg wet	50	997	ND	90	73-125%	---	---	
Styrene	693	---	38.6	ug/kg wet	50	997	ND	69	76-124%	---	---	
1,1,1,2-Tetrachloroethane	826	---	19.3	ug/kg wet	50	997	ND	83	78-125%	---	---	
1,1,2,2-Tetrachloroethane	861	---	38.6	ug/kg wet	50	997	ND	86	70-124%	---	---	Q-54b
Tetrachloroethene (PCE)	748	---	19.3	ug/kg wet	50	997	ND	75	73-128%	---	---	
Toluene	837	---	38.6	ug/kg wet	50	997	ND	84	77-121%	---	---	
1,2,3-Trichlorobenzene	663	---	193	ug/kg wet	50	997	ND	66	66-130%	---	---	
1,2,4-Trichlorobenzene	639	---	193	ug/kg wet	50	997	ND	64	67-129%	---	---	
1,1,1-Trichloroethane	904	---	19.3	ug/kg wet	50	997	ND	91	73-130%	---	---	
1,1,2-Trichloroethane	865	---	19.3	ug/kg wet	50	997	ND	87	78-121%	---	---	
Trichloroethene (TCE)	801	---	19.3	ug/kg wet	50	997	ND	80	77-123%	---	---	
Trichlorofluoromethane	1010	---	77.2	ug/kg wet	50	997	ND	101	62-140%	---	---	
1,2,3-Trichloropropane	852	---	38.6	ug/kg wet	50	997	ND	85	73-125%	---	---	
1,2,4-Trimethylbenzene	888	---	38.6	ug/kg wet	50	997	ND	89	75-123%	---	---	
1,3,5-Trimethylbenzene	899	---	38.6	ug/kg wet	50	997	ND	90	73-124%	---	---	Q-54
Vinyl chloride	1020	---	19.3	ug/kg wet	50	997	ND	102	56-135%	---	---	
m,p-Xylene	1690	---	38.6	ug/kg wet	50	1990	ND	85	77-124%	---	---	
o-Xylene	748	---	19.3	ug/kg wet	50	997	ND	75	77-123%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 98 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		107 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		89 %		79-120 %		"						

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Philip Nerenberg, Lab Director

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503-718-2323

ORELAP ID: OR100062

Stantec Portland

601 SW 2nd Ave Suite 1400

Portland, OR 97204

Project: **Edgewood**Project Number: **185750631**Project Manager: **Patrick Vaughan****Report ID:****A4A1253 - 01 30 24 1356**

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24A0699 - EPA 3051A												
Soil												
Blank (24A0699-BLK1)												
Prepared: 01/24/24 07:36 Analyzed: 01/25/24 14:26												
EPA 6020B												
Arsenic	ND	---	1.00	mg/kg wet	10	---	---	---	---	---	---	
Barium	ND	---	1.00	mg/kg wet	10	---	---	---	---	---	---	
Cadmium	ND	---	0.200	mg/kg wet	10	---	---	---	---	---	---	
Chromium	ND	---	1.00	mg/kg wet	10	---	---	---	---	---	---	
Lead	ND	---	0.200	mg/kg wet	10	---	---	---	---	---	---	
Mercury	ND	---	0.0800	mg/kg wet	10	---	---	---	---	---	---	
Selenium	ND	---	1.00	mg/kg wet	10	---	---	---	---	---	---	
Silver	ND	---	0.200	mg/kg wet	10	---	---	---	---	---	---	
LCS (24A0699-BS1)												
Prepared: 01/24/24 07:36 Analyzed: 01/25/24 14:32												
EPA 6020B												
Arsenic	49.3	---	1.00	mg/kg wet	10	50.0	---	99	80-120%	---	---	
Barium	49.6	---	1.00	mg/kg wet	10	50.0	---	99	80-120%	---	---	
Cadmium	48.5	---	0.200	mg/kg wet	10	50.0	---	97	80-120%	---	---	
Chromium	49.0	---	1.00	mg/kg wet	10	50.0	---	98	80-120%	---	---	
Lead	49.0	---	0.200	mg/kg wet	10	50.0	---	98	80-120%	---	---	
Mercury	0.948	---	0.0800	mg/kg wet	10	1.00	---	95	80-120%	---	---	
Selenium	24.0	---	1.00	mg/kg wet	10	25.0	---	96	80-120%	---	---	
Silver	24.6	---	0.200	mg/kg wet	10	25.0	---	99	80-120%	---	---	
Duplicate (24A0699-DUP1)												
Prepared: 01/24/24 07:36 Analyzed: 01/25/24 16:53												
QC Source Sample: Non-SDG (A4A1355-01)												
Arsenic	3.24	---	1.49	mg/kg dry	10	---	3.03	---	---	7	20%	
Barium	260	---	1.49	mg/kg dry	10	---	257	---	---	0.9	20%	
Cadmium	ND	---	0.297	mg/kg dry	10	---	ND	---	---	---	20%	
Chromium	25.5	---	1.49	mg/kg dry	10	---	22.6	---	---	12	20%	
Lead	7.50	---	0.297	mg/kg dry	10	---	7.41	---	---	1	20%	
Mercury	ND	---	0.119	mg/kg dry	10	---	ND	---	---	---	20%	
Selenium	ND	---	1.49	mg/kg dry	10	---	ND	---	---	---	20%	
Silver	ND	---	0.297	mg/kg dry	10	---	ND	---	---	---	20%	

Matrix Spike (24A0699-MS1)

Prepared: 01/24/24 07:36 Analyzed: 01/25/24 16:59

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Philip Nerenberg, Lab Director



ANALYTICAL REPORT

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503-718-2323
ORELAP ID: OR100062

Stantec Portland

601 SW 2nd Ave Suite 1400
Portland, OR 97204

Project: Edgewood

Project Number: 185750631

Project Manager: Patrick Vaughan

Report ID:

A4A1253 - 01 30 24 1356

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24A0699 - EPA 3051A						Soil						
Matrix Spike (24A0699-MS1)			Prepared: 01/24/24 07:36 Analyzed: 01/25/24 16:59									
QC Source Sample: Non-SDG (A4A1355-01)												
EPA 6020B												
Arsenic	82.7	---	1.56	mg/kg dry	10	78.1	3.03	102	75-125%	---	---	
Barium	351	---	1.56	mg/kg dry	10	78.1	257	120	75-125%	---	---	
Cadmium	78.8	---	0.312	mg/kg dry	10	78.1	ND	101	75-125%	---	---	
Chromium	118	---	1.56	mg/kg dry	10	78.1	22.6	122	75-125%	---	---	
Lead	85.3	---	0.312	mg/kg dry	10	78.1	7.41	100	75-125%	---	---	
Mercury	1.56	---	0.125	mg/kg dry	10	1.56	ND	100	75-125%	---	---	
Selenium	37.1	---	1.56	mg/kg dry	10	39.0	ND	95	75-125%	---	---	
Silver	39.6	---	0.312	mg/kg dry	10	39.0	ND	101	75-125%	---	---	

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Philip Nerenberg

Philip Nerenberg, Lab Director

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Apex Laboratories, LLC

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503-718-2323

ORELAP ID: OR100062

Stantec Portland

601 SW 2nd Ave Suite 1400

Portland, OR 97204

Project: **Edgewood**Project Number: **185750631**Project Manager: **Patrick Vaughan****Report ID:****A4A1253 - 01 30 24 1356**

QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24A0598 - Total Solids (Dry Weight) - 2022							Soil					
Duplicate (24A0598-DUP1)			Prepared: 01/22/24 09:18 Analyzed: 01/23/24 07:11									
QC Source Sample: Non-SDG (A4A1251-02)												
% Solids	70.6	---	1.00	%	1	---	71.4	---	---	1	10%	
Duplicate (24A0598-DUP2)			Prepared: 01/22/24 09:18 Analyzed: 01/23/24 07:11									
QC Source Sample: Non-SDG (A4A1251-03)												
% Solids	72.2	---	1.00	%	1	---	71.8	---	---	0.6	10%	
Duplicate (24A0598-DUP3)			Prepared: 01/22/24 09:18 Analyzed: 01/23/24 07:11									
QC Source Sample: Non-SDG (A4A1251-04)												
% Solids	71.0	---	1.00	%	1	---	74.0	---	---	4	10%	
Duplicate (24A0598-DUP4)			Prepared: 01/22/24 09:18 Analyzed: 01/23/24 07:11									
QC Source Sample: Non-SDG (A4A1251-05)												
% Solids	73.3	---	1.00	%	1	---	72.1	---	---	2	10%	
Duplicate (24A0598-DUP5)			Prepared: 01/22/24 09:18 Analyzed: 01/23/24 07:11									
QC Source Sample: Non-SDG (A4A1251-06)												
% Solids	81.4	---	1.00	%	1	---	76.6	---	---	6	10%	
Duplicate (24A0598-DUP6)			Prepared: 01/22/24 19:20 Analyzed: 01/23/24 07:11									
QC Source Sample: Non-SDG (A4A1288-01)												
% Solids	76.0	---	1.00	%	1	---	76.1	---	---	0.03	10%	
Duplicate (24A0598-DUP7)			Prepared: 01/22/24 19:20 Analyzed: 01/23/24 07:11									
QC Source Sample: Non-SDG (A4A1296-03)												
% Solids	70.3	---	1.00	%	1	---	71.2	---	---	1	10%	
												CONT, TEMP

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**Stantec Portland**
601 SW 2nd Ave Suite 1400
Portland, OR 97204Project: **Edgewood**
Project Number: **185750631**
Project Manager: **Patrick Vaughan****Report ID:**
A4A1253 - 01 30 24 1356**SAMPLE PREPARATION INFORMATION****Hydrocarbon Identification Screen by NWTPH-HCID****Prep: EPA 3546 (Fuels)**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 24A0577							
A4A1253-08	Soil	NWTPH-HCID	01/11/24 16:00	01/20/24 09:13	10.27g/10mL	10g/10mL	0.97

Volatile Organic Compounds by EPA 8260D**Prep: EPA 5030C**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 24A0599							
A4A1253-01RE1	Water	EPA 8260D	01/09/24 10:45	01/22/24 09:22	5mL/5mL	5mL/5mL	1.00
A4A1253-02RE1	Water	EPA 8260D	01/09/24 13:10	01/22/24 09:22	5mL/5mL	5mL/5mL	1.00
A4A1253-03RE1	Water	EPA 8260D	01/09/24 14:15	01/22/24 09:22	5mL/5mL	5mL/5mL	1.00
A4A1253-04RE1	Water	EPA 8260D	01/09/24 15:00	01/22/24 09:22	5mL/5mL	5mL/5mL	1.00
Batch: 24A0653							
A4A1253-05RE1	Water	EPA 8260D	01/10/24 09:45	01/23/24 10:44	5mL/5mL	5mL/5mL	1.00
A4A1253-06RE1	Water	EPA 8260D	01/10/24 10:00	01/23/24 10:44	5mL/5mL	5mL/5mL	1.00
A4A1253-07RE1	Water	EPA 8260D	01/10/24 12:45	01/23/24 10:44	5mL/5mL	5mL/5mL	1.00

Prep: EPA 5035A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 24A0682							
A4A1253-08RE1	Soil	5035A/8260D	01/11/24 16:00	01/11/24 16:00	10.822g/10mL	5g/5mL	0.92

Total Metals by EPA 6020B (ICPMS)**Prep: EPA 3051A**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 24A0699							
A4A1253-08	Soil	EPA 6020B	01/11/24 16:00	01/24/24 07:36	0.456g/50mL	0.5g/50mL	1.10

Percent Dry Weight**Prep: Total Solids (Dry Weight) - 2022**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 24A0598							
A4A1253-08	Soil	EPA 8000D	01/11/24 16:00	01/22/24 09:18			NA

Apex Laboratories

Philip Nerenberg, Lab Director

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Stantec Portland

601 SW 2nd Ave Suite 1400
Portland, OR 97204

Project: **Edgewood**

Project Number: **185750631**

Project Manager: **Patrick Vaughan**

Report ID:

A4A1253 - 01 30 24 1356

QUALIFIER DEFINITIONS

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

Apex Laboratories

- CONT** The Sample Container provided for this analysis was not provided by Apex Laboratories, and has not been verified as part of the Apex Quality System.
- Q-01** Spike recovery and/or RPD is outside acceptance limits.
- Q-50** Due to instrument malfunction, not all Batch QC samples were analyzed. The batch is accepted based on the recoveries of the Blank Spike (BS).
- Q-54** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +1%. The results are reported as Estimated Values.
- Q-54a** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +11%. The results are reported as Estimated Values.
- Q-54b** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +2%. The results are reported as Estimated Values.
- Q-54c** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +32%. The results are reported as Estimated Values.
- Q-54d** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +42%. The results are reported as Estimated Values.
- Q-54e** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +50%. The results are reported as Estimated Values.
- Q-54f** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +6%. The results are reported as Estimated Values.
- Q-54g** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +65%. The results are reported as Estimated Values.
- Q-54h** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +78%. The results are reported as Estimated Values.
- Q-54i** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +9%. The results are reported as Estimated Values.
- Q-54j** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +99%. The results are reported as Estimated Values.
- Q-54k** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -4%. The results are reported as Estimated Values.
- Q-54l** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -5%. The results are reported as Estimated Values.
- Q-54m** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -8%. The results are reported as Estimated Values.

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Philip Nerenberg, Lab Director



ANALYTICAL REPORT

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601 SW 2nd Ave Suite 1400
Portland, OR 97204

Project: Edgewood

Project Number: **185750631**

Project Manager: **Patrick Vaughan**

Report ID:

A4A1253 - 01 30 24 1356

- Q-55** Daily CCV/LCS recovery for this analyte was below the +/-20% criteria listed in EPA 8260, however there is adequate sensitivity to ensure detection at the reporting level.
- Q-56** Daily CCV/LCS recovery for this analyte was above the +/-20% criteria listed in EPA 8260
- TEMP** Sample was received outside of recommended temperature.

Apex Laboratories

Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

Apex Laboratories, LLC

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

Stantec Portland

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Portland, OR 97204

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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'.

Results for Volatiles analyses on soils and sediments that are reported on a "dry weight" basis include the water miscible solvent (WMS) correction referenced in the EPA 8000 Method guidance documents. Solid and Liquid samples reported on an "As Received" basis do not have the WMS correction applied, as dry weight was not performed.

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) may not be 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).

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REPORTING NOTES AND CONVENTIONS (Cont.):

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.

-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, if results are not reported to the MDL.

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

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

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation
<u>All reported analytes are included in Apex Laboratories' current ORELAP scope.</u>					

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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APEX LABS COOLER RECEIPT FORM

Client: Stantec Element WO#: A4 A1253Project/Project #: Edgewood 185750631 auc for JS 112124

Delivery Info:

Date/time received: 1/19/24 @ 1330 By: JSDelivered by: Apex ☐ Client ☐ ESS ☐ FedEx ☒ UPS ☐ Radio ☐ Morgan ☐ SDS ☐ Evergreen ☐ Other ☐Cooler Inspection Date/time inspected: 1/19/24 @ 1333 By: JSChain of Custody included? Yes ☒ No ☐Signed/dated by client? Yes ☒ No ☐

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>2.0</u>						
Custody seals? (Y/N)	<u>Y</u>						
Received on ice? (Y/N)	<u>Y</u>						
Temp. blanks? (Y/N)	<u>Y</u>						
Ice type: (Gel/Real/Other)	<u>gel</u>						
Condition (In/Out):	<u>In</u>						

Cooler out of temp? (Y/N) Possible reason why:

Green dots applied to out of temperature samples? Yes ☒ No ☐Out of temperature samples form initiated? Yes ☒ No ☐Sample Inspection: Date/time inspected: 1/19/24 @ 15:45 By: 2KamAll samples intact? Yes ☒ No ☐ Comments:Bottle labels/COCs agree? Yes ☒ No ☒ Comments: date on containers for CM-68720 reads 1/9/23COC/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: 213 for CM-50669 has HS, all VOA's have sed.Water samples: pH checked: Yes ☐ No ☒ N/A ☒ pH appropriate? Yes ☐ No ☐ NA ☒ pH ID:

Comments:

Additional information:

Labeled by:

2Kam

Witness:

DJS

Cooler Inspected by:

2Kam

Form Y-003 R-01

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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