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Supplementary Groundwater Source Control Evaluation Sampling Data Report
Willamette Cove Upland Facility
Portland, Oregon

Prepared for:
Port of Portland and Metro

January 22, 2026
320001056-17 Task 4

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Table of Contents

1.0 INTRODUCTION 4
1.1 Purpose and Objectives 4
1.2 Report Organization 5
2.0 SITE DESCRIPTION 5
3.0 ACTIVITIES COMPLETED 5
3.1 Sampling Approach 6
3.2 Preparatory Activities 6
3.3 Surface Water Levels 6
3.4 Groundwater Levels 6
3.5 Monitoring Well Sampling 7
3.6 Riverbank Groundwater Sampling 7
3.7 Deviations from the Work Plan 8
4.0 CHEMICAL ANALYTICAL RESULTS OF GROUNDWATER 8
4.1 Analytical Testing Program 8
4.2 Analytical Results 8
5.0 REFERENCES 9

Tables

1 Groundwater and Willamette River Elevations
2 Groundwater Grab Sample Depths, Natural Attenuation and Field Parameters
3 Groundwater Analytical Results – Metals (Total and Dissolved)
4 Groundwater Analytical Results – Polycyclic Aromatic Hydrocarbons
5a Groundwater Analytical Results – PCB Congeners, Transect 1
5b Groundwater Analytical Results – PCB Congeners, Transect 3
5c Groundwater Analytical Results – PCB Congeners, Transect 5
6a Groundwater Analytical Results – Organochlorine Pesticides, Transect 1
6b Groundwater Analytical Results – Organochlorine Pesticides, Transect 3
6c Groundwater Analytical Results – Organochlorine Pesticides, Transect 5

Figures

1 Facility Location Map
2 Facility Plan
3 Completed Boring Locations
4 Dissolved Arsenic in Groundwater – Transect 1
5 Dissolved Arsenic in Groundwater – Transect 3
6 Dissolved Arsenic in Groundwater – Transect 5
7 Carcinogenic PAHs in Groundwater – Transect 1
8 Carcinogenic PAHs in Groundwater – Transect 3
9 Carcinogenic PAHs in Groundwater – Transect 5
10 PCBs in Groundwater – Transect 1
11 PCBs in Groundwater – Transect 3
12 PCBs in Groundwater – Transect 5

Appendices

A Groundwater Sampling Field Documentation and Exploration Logs
B Laboratory Analytical Reports and Quality Assurance Review

Abbreviations/Acronyms

BaP Eq	Benzo(a)pyrene Toxicity Equivalent
bgs	Below Ground Surface
BNSF	Burlington Northern Santa Fe
CUL	Cleanup Level
COC	Chemical of Concern
cPAHs	Carcinogenic Polycyclic Aromatic Hydrocarbons
DEQ	Oregon Department of Environmental Quality
DDD	Dicholorodiphenyldichloroethane
EPA	U.S. Environmental Protection Agency
Facility	Willamette Cove Upland Facility
GW	Groundwater
JSCS	Joint Source Control Strategy
McCormick & Baxter	McCormick & Baxter Creosoting Company Superfund Site
MHW	Mean High Water
MLW	Mean Low Water
NAVD88	North American Vertical Datum 88
OLWL	Ordinary Low Water Line
PAHs	Polycyclic Aromatic Hydrocarbons
PCBs	Polychlorinated Biphenyls
PHSS	Portland Harbor Superfund Site
Port	Port of Portland
ROD	Record of Decision
SCE	Source Control Evaluation
SLV	Screening Level Value
TOB	Top of Bank
UPRR	Union Pacific Railroad
VCP	Voluntary Cleanup Program

1.0 Introduction

This *Supplementary* Groundwater Source Control Evaluation Data Report (*Supplemental GW SCE Data Report*) was prepared for the Willamette Cove Upland Facility (the Facility). This report was prepared as part of a Voluntary Cleanup Program (VCP) Agreement EC-NWR-00-26 between the Port of Portland (Port), Metro, and the Oregon Department of Environmental Quality (DEQ). The Facility is identified by DEQ as Cleanup Site No. 2066.

The Port and Metro submitted the *Updated Source Control Evaluation (*Updated SCE, Apex, 2023) to DEQ in response to a request by DEQ to identify and evaluate sources of groundwater contamination that may reach the Willamette River, and (if necessary) recommend remedial actions, consistent with the DEQ-U.S. Environmental Protection Agency (EPA) Portland Harbor Joint Source Control Strategy (JSCS; DEQ/EPA, 2005). Considering multiple lines of evidence, the Updated SCE did not identify potential adverse effects or groundwater source control concerns. However, polycyclic aromatic hydrocarbons (PAHs) and dicholorodiphenyldichloroethane (DDD) were present above Portland Harbor cleanup levels (CULs) in groundwater at the West Parcel and in sediment and porewater adjacent to the West Parcel. Based on agency feedback, DEQ believes groundwater at Willamette Cove to be a low source control concern (DEQ, 2024). The EPA, in their comments on the *Groundwater Source Control Evaluation Report* (comments dated April 23, 2024), indicated that they believe that groundwater in the former log pond area of the West Parcel could be a source discharging to the river above cleanup levels.

To address DEQ and EPA feedback regarding groundwater discharging to the river from an upland source, the Port submitted a *Revised Draft Supplementary Groundwater Source Control Evaluation Work Plan* (*Supplemental GW SCE Work Plan*, Apex, 2025) to DEQ. The DEQ conditionally approved the *Supplemental GW SCE Work Plan* in an email dated February 13, 2025 (with the condition being to analyze groundwater samples for polychlorinated biphenyls [PCBs] congeners instead of PCB Aroclors).

This report summarizes Facility characteristics, presents the investigation approach, and describes field sampling activities, laboratory analyses, and results completed during the groundwater investigation. A forthcoming revision to the Updated SCE will include a comprehensive evaluation of the data presented in this report.

1.1 Purpose and Objectives

The purpose of the supplementary groundwater sampling was to further assess whether chemicals of concern (COCs) detected above screening levels in upland monitoring wells on the West Parcel of the Facility are adversely impacting the Willamette River sediments or surface water. The specific objective of the supplementary investigation was the collection and analysis of groundwater samples from upland

groundwater monitoring wells and grab groundwater samples from between the upland monitoring wells on the West Parcel and the offshore sediment and porewater sampling locations. The completed sampling was intended to support evaluation of the attenuation of COCs in groundwater from the monitoring wells to groundwater beneath the river. The additional data will be used to update the lines of evidence evaluation presented in the Updated SCE to support a source control decision for groundwater.

1.2 Report Organization

This document is organized in the following manner:

- Section 2 provides a description of the Site.
- Section 3 presents the sampling approach, field sampling activities completed at the Site and any deviations from the Work Plan.
- Section 4 presents a summary of the groundwater chemical analytical results.
- Section 5 lists the references cited in this report.

2.0 Site Description

A detailed description of the Site and history is provided in the Updated SCE (Apex, 2023) and is summarized in this section.

The Facility is located along the northeast bank of the Willamette River in the St. Johns area of Portland, Oregon. Figure 1 shows the location of the Facility. The Facility is situated between River Miles 6 and 7 on the Willamette River and is mostly in Section 12 of Township 1 North, Range 1 West, Willamette Meridian. Figure 2 provides a current plan of the Facility, Site, and the surrounding area. For purposes of describing the Facility, it has been divided into West, Central, and East Parcels as shown on Figure 2. The facility is vegetated with a mix of grasses, shrubs, and trees of varying sizes. Prior to the start of work, vegetation was cleared from the upland drill sites and paths for equipment access. A level, compacted area was provided to stage the drill rig at each of the three upland drilling locations.

3.0 Activities Completed

This section describes the field activities conducted to collect groundwater samples. Groundwater samples were collected in accordance with the *Supplementary GW SCE Work Plan* except where modified based on field conditions. Deviations from the work plan are described in Section 3.7.

3.1 Sampling Approach

The overall approach for the additional groundwater sampling was to collect groundwater samples from the West Parcel monitoring wells and collect grab groundwater samples from angled borings located between the upland groundwater monitoring wells on the West Parcel and adjacent offshore sample points. Three temporary borings (T1, T3, and T5) were installed at an angle of 35 degrees from vertical from the top of the bank to evaluate groundwater conditions within the riverbank. Borings were installed in locations near existing upland monitoring wells MW-1 (T1 located 15 feet southwest of MW-1), MW-2 (T3 located 51 feet southwest of MW-2) and MW-3 (located 29 feet south of MW-3) using sonic drilling methods. The boring locations are shown on Figure 3.

3.2 Preparatory Activities

Preparatory activities for groundwater characterization efforts included coordinating property access with Metro personnel, updating the Site -specific Health and Safety Plan, clearing proposed sample locations of underground utility conflicts, and coordinating drilling and sampling activities. In addition, clearing of vegetation at each drill site and equipment pathways was completed prior to initiation of the work as part of the In-Water Group riverbank sampling efforts.

3.3 Surface Water Levels

Based on historical groundwater level monitoring at the site, river levels of 12 feet (NAVD88) and below demonstrate that no substantive flow reversal occurs and that conditions are representative of groundwater flow to the river. The groundwater sampling was conducted when the mean daily river levels were lower than 12 feet NAVD88 based on forecast and actual data recorded at the Willamette River Morrison Bridge gauging station. The recorded mean daily river levels during the groundwater sampling period (February 27, 2025, through March 11, 2025) ranged from 5.92 feet (March 3, 2025) to 11.87 feet (February 27, 2025) NAVD88. The mean daily river levels for the dates that groundwater samples were collected are presented in Table 1.

3.4 Groundwater Levels

Groundwater levels were measured in MW-1, MW-2, and MW-3 on February 27 (prior to beginning sampling), MW-1 and MW-2 on March 6, 2025, and MW-3 on March 11, 2025 prior to purging and sampling at each well. The well caps were removed, and the water level was allowed to equilibrate before the measurements were taken. The depth to groundwater was measured in each well to the nearest 0.01 foot using an electronic water level probe. The depths to groundwater and groundwater elevations are presented in Table 1. In addition, first encountered groundwater levels were measured in the angle borings prior to purging and sampling to confirm where the sample collection depths should be set.

3.5 Monitoring Well Sampling

Groundwater monitoring consisted of measuring groundwater levels and collecting samples for chemical analysis from wells MW-1 through MW-3 on the West Parcel. Sampling of monitoring wells MW-1 and MW-2 was conducted on March 6, 2025, and sampling of monitoring well MW-3 was conducted on March 11, 2025

After water levels were measured, the wells were purged using a low-flow peristaltic pump with new tubing. Groundwater field parameters (pH, oxidative-reductive potential, dissolved oxygen, specific conductivity, temperature, and turbidity) were measured using a multi-meter and flow cell connected to the discharge tubing of the sample pump. In addition, ferrous iron was monitored using a color disc field test kit. Purging was considered complete when water quality parameters were stabilized to within 10 percent for three consecutive three-minute intervals, at which time samples were collected. The field parameters are presented in Table 2. Field data sheets are in Appendix A.

3.6 Riverbank Groundwater Sampling

Each boring was advanced to a maximum drill length of approximately 86 feet from the entrance point. Groundwater grab samples were collected from four discrete depth intervals in each boring. For each sampling depth, the drill stem was advanced to approximately two feet above the desired sampling depth and a stainless-steel probe was advanced ahead of the drill stem in the closed position. Upon advancing the probe to the desired sampling depth, the device was opened by pulling back the drive pipe exposing the probe screen (one-inch diameter by five-foot long pre-pack filter poly vinyl chloride screen). Initially, attempts to purge and sample were made using a peristaltic pump with HDPE tubing as described in the *GW SCE Work Plan*. However, high turbidity prevented purging to occur using this method. Subsequent groundwater purging and sampling was conducted using a one-inch submersible (Monsoon) pump installed directly in the probe screen. The submersible pump was decontaminated as described in the *GW SCE Work Plan* between each sample. The first groundwater sample was collected within the first five feet of encountering groundwater. The next three samples were collected at 12-foot (plus/minus 2 feet) depth intervals thereafter (approximately 15 feet along the borehole). The sample depths (vertical feet below ground surface) and approximate sample elevations (NAVD88) are presented in Table 2. Figures 4 through 12 show the completed sampling locations within each angle boring.

Each boring was continuously cored, and the soil cores were logged and recorded using the Unified Soil Classification System. Borehole logs are included in Appendix A. Note that the upper 45 feet of each of the three angle borings was logged by the In-Water Group, during riverbank characterization activities conducted in February 2025, and the lower portion of each boring was logged by an Apex geologist. The boring logs in Appendix A represent a compilation of In-Water Group and Apex logs. No soil samples were collected for laboratory analysis during this investigation.

3.7 Deviations from the Work Plan

The groundwater sampling activities were completed in accordance with the *GW SCE Work Plan* (Apex, 2025) with the following exceptions:

- After unsuccessful attempts to purge and sample the boreholes using a peristaltic pump due to high turbidity, the purge and sample method was modified to use a one-inch submersible pump. The submersible pump was decontaminated between each sample.
- Monitoring well sampling was conducted concurrently with (MW-1 and MW-2) and following (MW-3) the borehole groundwater sampling as opposed to immediately before.

4.0 Chemical Analytical Results of Groundwater

4.1 Analytical Testing Program

The monitoring well and boring groundwater samples were analyzed for the following:

- PAHs by EPA Method 8270E-SIM;
- DDT, DDD, and DDE by EPA Method 8081B;
- PCB Congeners by EPA Method 1668C; and
- Total and dissolved metals by EPA Method 6020B for arsenic, iron, and manganese.

In addition, samples were analyzed for geochemical parameters including total and dissolved iron and manganese, nitrate (as nitrogen), sulfate, carbon dioxide (total organic carbon) and ferrous iron (field measured) to evaluate the oxidation/reduction conditions. Laboratory analysis was performed by Apex Laboratories of Tigard, Oregon (Apex Lab, OR01039) and two laboratories subcontracted by Apex Labs (Ceres for PCB congeners and ALS for total organic carbon).

4.2 Analytical Results

Groundwater results are presented in Tables 3 through 6 and summarized on Figures 4 through 12. Laboratory analytical reports and data quality assurance review are in Appendix B. The US Environmental Protection Agency (EPA) Portland Harbor ROD Cleanup Levels (CULs; updated per Errata #2, January 2020) and Portland Harbor Joint Source Control Strategy Screening Level Values (JSCS SLV) for groundwater are also listed in the tables for reference.

A comprehensive evaluation of the data collected during the supplemental groundwater sampling activities will be presented in a revised Updated SCE.

5.0 References

Apex, 2023. *Updated Groundwater Source Control Evaluation, Willamette Cove Upland Facility*. November 21, 2023.

Apex, 2025. *Revised Draft Supplemental Groundwater Source Control Evaluation Work Plan, Willamette Cove Upland Facility*. February 3, 2025.

Apex, 2025. *Updated Groundwater Source Control Evaluation*. Date TBD

Oregon Department of Environmental Quality (DEQ), U.S. Environmental Protection Agency (DEQ/EPA), 2005. *Portland Harbor Joint Source Control Strategy*. December 2005.

DEQ, 2024. Email correspondence from DEQ to the Port of Portland. June 12, 2024.

EPA, 2017. *Record of Decision, Portland Harbor Superfund Site, Portland, Oregon*. January 2017 and *Errata #2* dated January 14, 2020.

Table 1
Groundwater and Willamette River Elevations
Willamette Cove Upland Facility
Portland, Oregon

Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet bgs)	Groundwater Elevation (feet)	Mean Daily River Elevation (Feet NAVD88 at Morrison Br)
MW-1	2/7/2002	37.84	26.83	11.01	
	5/28/2002		26.25	11.59	
	8/29/2005		28.43	9.41	
	12/16/2005		28.04	9.80	
	2/23/2016		24.60	13.24	
	6/3/2016		25.40	12.44	
	9/14/2016		28.40	9.44	
	12/14/2016		25.91	11.93	
	11/22/2019		29.18	8.66	
	12/3/2019		28.61	9.23	
	8/11/2020		27.56	10.28	
	2/23/2021		26.28	11.56	
	2/27/2025		25.64	12.20	
	3/6/2025		26.45	11.39	8.28
MW-2	2/7/2002	46.14	29.25	16.89	
	5/28/2002		24.67	21.47	
	8/29/2005		27.81	18.33	
	12/16/2005		28.91	17.23	
	2/23/2016		26.38	19.76	
	6/3/2016		25.93	20.21	
	9/14/2016		28.54	17.60	
	12/14/2016		29.35	16.79	
	11/22/2019		31.66	14.48	
	12/3/2019		31.62	14.52	
	8/11/2020		30.37	15.77	
	2/23/2021		31.14	15.00	
	2/27/2025		27.92	18.22	
	3/6/2025		28.09	18.05	8.28
MW-3	2/7/2002	44.07	30.02	14.05	
	5/28/2002		30.97	13.10	
	8/29/2005		36.93	7.14	
	12/16/2005		34.80	9.27	

Table 1
Groundwater and Willamette River Elevations
Willamette Cove Upland Facility
Portland, Oregon

Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet bgs)	Groundwater Elevation (feet)	Mean Daily River Elevation (Feet NAVD88 at Morrison Br)
MW-3 (Cont)	2/23/2016	44.07	30.99	13.08	
	6/3/2016		32.70	11.37	
	9/14/2016		36.05	8.02	
	12/14/2016		32.40	11.67	
	11/22/2019		35.90	8.17	
	12/3/2019		35.54	8.53	
	8/11/2020		35.05	9.02	
	2/23/2021		33.39	10.68	
	2/27/2025		30.77	13.30	
	3/11/2025		34.19	9.88	7.78

Notes:

1. Elevations relative to NAVD88 datum.
2. bgs = below ground surface.
3. Top of casing (TOC) elevation for wells MW-2 is from survey on June 16, 2016. TOC elevations for wells MW-2 and MW-3 are from survey conducted in 2002.
4. United States Geologic Survey (USGS) Sta. 14211720.

Table 2
Groundwater Grab Sample Depths, Natural Attenuation and Field Parameters
Willamette Cove
Portland, Oregon

Sample ID	Sample Date	Sample Depth (Ft Below Ground Surface)	Approximate Sample Elevation (NAVD88)	SM 5310B	EPA 300.0	EPA 353.2/300.0	Field Parameters					
				Total Organic Carbon	Sulfate	Nitrate-Nitrogen	pH	Temperature	Conductivity	Dissolved Oxygen	Oxidative-Reductive Potential	FE2+
				Concentration in mg/L (ppm)			pH units	^{0}C	µS/cm	ppm	mV	

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				Concentration in mg/L (ppm)			pH units	^{o}C	µS/cm	ppm	mV	

Table 3
Groundwater Analytical Results – Metals (Total and Dissolved)
Willamette Cove
Portland, Oregon

Sample ID	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Copper	Iron	Lead	Mercury	Manganese	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
		Concentration in µg/L (ppb)																	
Portland Harbor ROD Cleanup Levels																			
JSCS SLV			6																
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Sample ID	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Copper	Iron	Lead	Mercury	Manganese	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
		Concentration in µg/L (ppb)																	
Dissolved Metals																			

Table 3
Groundwater Analytical Results – Metals (Total and Dissolved)
Willamette Cove
Portland, Oregon

Sample ID	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Copper	Iron	Lead	Mercury	Manganese	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
		Concentration in µg/L (ppb)																	

Notes:

1. U = Analyte was not detected.
2. J = Result is estimated.
3. UJ = The not detected result is estimated. The reporting limit may be inaccurate or imprecise.
4. J+ = Result is estimated and may be biased high.
5. µg/L = Micrograms per liter (parts per billion).
6. Bold Box = Value exceeds Portland Harbor ROD Cleanup Level (CUL). If no ROD CUL exists, the value exceeds JSCS SLV.
7. -- = Not available.
8. Aluminum (pH 6.5 - 9.0). "These values for aluminum are expressed in terms of "total recoverable" concentrations of metal in the water column. The criterion applies at pH<6.6 and hardness<12 mg/L (as $CaCO_3$)"
9. Criterion applicable to dissolved concentrations.
10. Criterion applicable to total concentrations.
11. JSCS SLV = Portland Harbor Joint Source Control Strategy Screening Level Values, December 2005
12. ROD = Record of Decision from US Environmental Protection Agency Cleanup Levels for the Portland Harbor Superfund Site, Table 17, Groundwater, January 2017 (updated per Errata #2, January 2020).
13. DUP = Field duplicate.

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Table 4

Groundwater Analytical Results – Polycyclic Aromatic Hydrocarbons
Willamette Cove
Portland, Oregon

Sample ID	Sample Date	2-Methyl naphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(g,h,i) perylene	Benzo(k) fluoranthene	Chrysene	Dibenzo(a,h) anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd) pyrene	Naphthalene	Phenanthrene	Pyrene	1-Methyl naphthalene	Dibenzofuran	Total cPAH (BaP Eq)
		Concentration in µg/L (ppb)																			
						0.1	1	0.1		0.01	0.001	1			0.1						
Portland Harbor ROD Cleanup Levels		□□□	□□	□□	□□□□	□□□□□□	□□□□□□	□□□□□□	□□□	□□□□□□	□□□□□	□□□□□□	6□□	□□□	□□□□□	□□	6□□	□□	□□		□□□□□□□
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Table 5a
Groundwater Analytical Results – PCB Congeners, Transect 1
Willamette Cove
Portland, Oregon

Analyte	Congener #	Portland Harbor ROD Cleanup Levels	JSCS SLV	T1-GW-34	T1-GW-46	T1-GW-58	T1-GW-70	MW-1							
				3/6/2025	3/6/2025	3/7/2025	3/7/2025	2/23/2016	6/3/2016	9/14/2016	12/20/2016	11/22/2019	8/11/2020	2/24/2021	3/6/2025
				Concentration in ng/L (ppt)											
M						6									
M									6						
M															
D															
6 D										6					
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r				6		6						6	6	6	6

Please see notes at end of table.

Table 5a
Groundwater Analytical Results – PCB Congeners, Transect 1
Willamette Cove
Portland, Oregon

Analyte	Congener #	Portland Harbor ROD Cleanup Levels	JSCS SLV	T1-GW-34	T1-GW-46	T1-GW-58	T1-GW-70	MW-1							
				3/6/2025	3/6/2025	3/7/2025	3/7/2025	2/23/2016	6/3/2016	9/14/2016	12/20/2016	11/22/2019	8/11/2020	2/24/2021	3/6/2025
				Concentration in ng/L (ppt)											
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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Groundwater Analytical Results – PCB Congeners, Transect 1
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Analyte	Congener #	Portland Harbor ROD Cleanup Levels	JSCS SLV	T1-GW-34	T1-GW-46	T1-GW-58	T1-GW-70	MW-1							
				3/6/2025	3/6/2025	3/7/2025	3/7/2025	2/23/2016	6/3/2016	9/14/2016	12/20/2016	11/22/2019	8/11/2020	2/24/2021	3/6/2025
				Concentration in ng/L (ppt)											
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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Table 5a
Groundwater Analytical Results – PCB Congeners, Transect 1
Willamette Cove
Portland, Oregon

Analyte	Congener #	Portland Harbor ROD Cleanup Levels	JSCS SLV	T1-GW-34	T1-GW-46	T1-GW-58	T1-GW-70	MW-1							
				3/6/2025	3/6/2025	3/7/2025	3/7/2025	2/23/2016	6/3/2016	9/14/2016	12/20/2016	11/22/2019	8/11/2020	2/24/2021	3/6/2025
				Concentration in ng/L (ppt)											
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Table 5a
Groundwater Analytical Results – PCB Congeners, Transect 1
Willamette Cove
Portland, Oregon

Analyte	Congener #	Portland Harbor ROD Cleanup Levels	JSCS SLV	T1-GW-34	T1-GW-46	T1-GW-58	T1-GW-70	MW-1							
				3/6/2025	3/6/2025	3/7/2025	3/7/2025	2/23/2016	6/3/2016	9/14/2016	12/20/2016	11/22/2019	8/11/2020	2/24/2021	3/6/2025
				Concentration in ng/L (ppt)											
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	--	--	--	--	[illegible]	[illegible]	[illegible]	[illegible]
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Table 5a
Groundwater Analytical Results – PCB Congeners, Transect 1
Willamette Cove
Portland, Oregon

Analyte	Congener #	Portland Harbor ROD Cleanup Levels	JSCS SLV	T1-GW-34	T1-GW-46	T1-GW-58	T1-GW-70	MW-1							
				3/6/2025	3/6/2025	3/7/2025	3/7/2025	2/23/2016	6/3/2016	9/14/2016	12/20/2016	11/22/2019	8/11/2020	2/24/2021	3/6/2025
				Concentration in ng/L (ppt)											
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible] J	[illegible]	--	--	--	--	[illegible]	[illegible]	[illegible]	[illegible]
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Table 5a
Groundwater Analytical Results – PCB Congeners, Transect 1
Willamette Cove
Portland, Oregon

Analyte	Congener #	Portland Harbor ROD Cleanup Levels	JSCS SLV	T1-GW-34	T1-GW-46	T1-GW-58	T1-GW-70	MW-1							
				3/6/2025	3/6/2025	3/7/2025	3/7/2025	2/23/2016	6/3/2016	9/14/2016	12/20/2016	11/22/2019	8/11/2020	2/24/2021	3/6/2025
				Concentration in ng/L (ppt)											
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	6														
				6	6		6		6	6		6	6	6	6
										6					
				6	6	6	6		6			6	6	6	6
						J									
	6			6			6			6		6	6	6	6
D a r ny				6		6									
a			6			6	6								6

Notes:
1. U = Analyte was not detected.
2. J = Result is estimated.
3. ng/L = Nanograms per liter (parts per trillion).
4. Bold Box = Value exceeds Portland Harbor ROD Cleanup Level (CUL). If no ROD CUL exists, the value exceeds, JSCS SLV.
5. JSCS SLV = Portland Harbor Joint Source Control Strategy Screening Level Values, December 2005
6. ROD = Record of Decision from US Environmental Protection Agency Cleanup Levels for the Portland Harbor Superfund Site, Table 17, Groundwater, January 2017 (updated per Errata #2, January 2020).

Table 5b
Groundwater Analytical Results – PCB Congeners, Transect 3
Willamette Cove
Portland, Oregon

Analyte	Congener #	Portland Harbor ROD Cleanup Levels	JSCS SLV	T3-GW-34	T3-GW-46	T3-GW-58	T3-GW-70	MW-2							
				2/27/2025	2/27/2025	2/28/2025	3/3/2025	2/23/2016	6/3/2016	9/14/2016	12/20/2016	11/22/2019	8/11/2020	2/23/2021	3/6/2025
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Table 5b
Groundwater Analytical Results – PCB Congeners, Transect 3
Willamette Cove
Portland, Oregon

Analyte	Congener #	Portland Harbor ROD Cleanup Levels	JSCS SLV	T3-GW-34	T3-GW-46	T3-GW-58	T3-GW-70	MW-2							
				2/27/2025	2/27/2025	2/28/2025	3/3/2025	2/23/2016	6/3/2016	9/14/2016	12/20/2016	11/22/2019	8/11/2020	2/23/2021	3/6/2025
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Table 5b
Groundwater Analytical Results – PCB Congeners, Transect 3
Willamette Cove
Portland, Oregon

Analyte	Congener #	Portland Harbor ROD Cleanup Levels	JSCS SLV	T3-GW-34	T3-GW-46	T3-GW-58	T3-GW-70	MW-2							
				2/27/2025	2/27/2025	2/28/2025	3/3/2025	2/23/2016	6/3/2016	9/14/2016	12/20/2016	11/22/2019	8/11/2020	2/23/2021	3/6/2025
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Table 5b
Groundwater Analytical Results – PCB Congeners, Transect 3
Willamette Cove
Portland, Oregon

Analyte	Congener #	Portland Harbor ROD Cleanup Levels	JSCS SLV	T3-GW-34	T3-GW-46	T3-GW-58	T3-GW-70	MW-2							
				2/27/2025	2/27/2025	2/28/2025	3/3/2025	2/23/2016	6/3/2016	9/14/2016	12/20/2016	11/22/2019	8/11/2020	2/23/2021	3/6/2025
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Table 5b
Groundwater Analytical Results – PCB Congeners, Transect 3
Willamette Cove
Portland, Oregon

Analyte	Congener #	Portland Harbor ROD Cleanup Levels	JSCS SLV	T3-GW-34	T3-GW-46	T3-GW-58	T3-GW-70	MW-2							
				2/27/2025	2/27/2025	2/28/2025	3/3/2025	2/23/2016	6/3/2016	9/14/2016	12/20/2016	11/22/2019	8/11/2020	2/23/2021	3/6/2025
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Table 5b
Groundwater Analytical Results – PCB Congeners, Transect 3
Willamette Cove
Portland, Oregon

Analyte	Congener #	Portland Harbor ROD Cleanup Levels	JSCS SLV	T3-GW-34	T3-GW-46	T3-GW-58	T3-GW-70	MW-2							
				2/27/2025	2/27/2025	2/28/2025	3/3/2025	2/23/2016	6/3/2016	9/14/2016	12/20/2016	11/22/2019	8/11/2020	2/23/2021	3/6/2025
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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Table 5b
Groundwater Analytical Results – PCB Congeners, Transect 3
Willamette Cove
Portland, Oregon

Analyte	Congener #	Portland Harbor ROD Cleanup Levels	JSCS SLV	T3-GW-34	T3-GW-46	T3-GW-58	T3-GW-70	MW-2							
				2/27/2025	2/27/2025	2/28/2025	3/3/2025	2/23/2016	6/3/2016	9/14/2016	12/20/2016	11/22/2019	8/11/2020	2/23/2021	3/6/2025
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Table 5c
Groundwater Analytical Results – PCB Congeners, Transect 5
Willamette Cove
Portland, Oregon

Analyte	Congener #	Portland Harbor ROD Cleanup Levels	JSCS SLV	T5-GW-35	T5-GW-46	T5-GW-58	T5-GW-69	MW-3									
				3/4/2025	3/4/2025	3/5/2025	3/6/2025	2/23/2016	6/3/2016	9/14/2016	12/20/2016 Total	12/20/2016 Dissolved	11/22/2019	11/22/2019 Duplicate	8/12/2020	3/1/2021	3/11/2025	3/11/2025 (DUP)
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Please see notes at end of table.

Table 5c
Groundwater Analytical Results – PCB Congeners, Transect 5
Willamette Cove
Portland, Oregon

Analyte	Congener #	Portland Harbor ROD Cleanup Levels	JSCS SLV	T5-GW-35	T5-GW-46	T5-GW-58	T5-GW-69	MW-3									
				3/4/2025	3/4/2025	3/5/2025	3/6/2025	2/23/2016	6/3/2016	9/14/2016	12/20/2016 Total	12/20/2016 Dissolved	11/22/2019	11/22/2019 Duplicate	8/12/2020	3/1/2021	3/11/2025	3/11/2025 (DUP)

Table 5c
Groundwater Analytical Results – PCB Congeners, Transect 5
Willamette Cove
Portland, Oregon

Analyte	Congener #	Portland Harbor ROD Cleanup Levels	JSCS SLV	T5-GW-35	T5-GW-46	T5-GW-58	T5-GW-69	MW-3										
				3/4/2025	3/4/2025	3/5/2025	3/6/2025	2/23/2016	6/3/2016	9/14/2016	12/20/2016 Total	12/20/2016 Dissolved	11/22/2019	11/22/2019 Duplicate	8/12/2020	3/1/2021	3/11/2025	3/11/2025 (DUP)
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Table 5c
Groundwater Analytical Results – PCB Congeners, Transect 5
Willamette Cove
Portland, Oregon

Analyte	Congener #	Portland Harbor ROD Cleanup Levels	JSCS SLV	T5-GW-35	T5-GW-46	T5-GW-58	T5-GW-69	MW-3										
				3/4/2025	3/4/2025	3/5/2025	3/6/2025	2/23/2016	6/3/2016	9/14/2016	12/20/2016 Total	12/20/2016 Dissolved	11/22/2019	11/22/2019 Duplicate	8/12/2020	3/1/2021	3/11/2025	3/11/2025 (DUP)
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Table 5c
Groundwater Analytical Results – PCB Congeners, Transect 5
Willamette Cove
Portland, Oregon

Analyte	Congener #	Portland Harbor ROD Cleanup Levels	JSCS SLV	T5-GW-35	T5-GW-46	T5-GW-58	T5-GW-69	MW-3									
				3/4/2025	3/4/2025	3/5/2025	3/6/2025	2/23/2016	6/3/2016	9/14/2016	12/20/2016 Total	12/20/2016 Dissolved	11/22/2019	11/22/2019 Duplicate	8/12/2020	3/1/2021	3/11/2025	3/11/2025 (DUP)
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Table 6a
Groundwater Analytical Results – Organochlorine Pesticides, Transect 1
Willamette Cove
Portland, Oregon

Sample ID	Portland Harbor ROD Cleanup Levels	JSCS SLV	T1-GW-34	T1-GW-46	T1-GW-58	T1-GW-70	MW-1					
			3/6/2025	3/6/2025	3/7/2025	3/7/2025	9/14/2016	12/20/2016	12/3/2019	8/11/2020	2/24/2021	3/6/2025
			Concentration in µg/L (ppb)									
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See notes on the next page.

Table 6a
Groundwater Analytical Results – Organochlorine Pesticides, Transect 1
Willamette Cove
Portland, Oregon

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Notes:

1. µg/L = Micrograms per liter (parts per billion).
2. U = Analyte was not detected.
3. A = Summed value based on limited number of analytes.
4. UJ = The not detected result is estimated. The reporting limit may be inaccurate or imprecise.
5. J+ = Result is estimated and may be biased high.
6. J = Result is an estimated value.
7. Bold Box = Value exceeds Portland Harbor ROD Cleanup Level (CUL). If no ROD CUL exists, the value exceeds, JSCS SLV.
8. JSCS SLV = Portland Harbor Joint Source Control Strategy Screening Level Values, December 2005.
9. ROD = Record of Decision from US Environmental Protection Agency Cleanup Levels for the Portland Harbor Superfund Site, Table 17, Groundwater, January 2017 (updated per Errata #2, January 2020).
10. -- = Not available.

Table 6b
Groundwater Analytical Results – Organochlorine Pesticides, Transect 3
Willamette Cove
Portland, Oregon

Sample ID	Portland Harbor ROD Cleanup Levels	JSCS SLV	T3-GW-34	T3-GW-46	T3-GW-58	T3-GW-70	MW-2					
			2/27/2025	2/27/2025	2/28/2025	3/3/2025	9/14/2016	12/20/2016	12/3/2019	8/11/2020	2/23/2021	3/6/2025
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See notes on the next page.

Table 6b
Groundwater Analytical Results – Organochlorine Pesticides, Transect 3
Willamette Cove
Portland, Oregon

Notes:

1. µg/L = Micrograms per liter (parts per billion).
2. U = Analyte was not detected.
3. A = Summed value based on limited number of analytes.
4. UJ = The not detected result is estimated. The reporting limit may be inaccurate or imprecise.
5. J+ = Result is estimated and may be biased high.
6. J = Result is an estimated value.
7. Bold Box = Value exceeds Portland Harbor ROD Cleanup Level (CUL). If no ROD CUL exists, the value exceeds, JSCS SLV.
8. JSCS SLV = Portland Harbor Joint Source Control Strategy Screening Level Values, December 2005.
9. ROD = Record of Decision from US Environmental Protection Agency Cleanup Levels for the Portland Harbor Superfund Site, Table 17, Groundwater, January 2017 (updated per Errata #2, January 2020).
10. -- = Not available.

Table 6c
Groundwater Analytical Results – Organochlorine Pesticides, Transect 5
Willamette Cove
Portland, Oregon

Sample ID	Portland Harbor ROD Cleanup Levels	JSCS SLV	T5-GW-35	T5-GW-46	T5-GW-58	T5-GW-69	MW-3				
			3/4/2025	3/4/2025	3/5/2025	3/6/2025	9/15/2016	12/20/2016	12/3/2019	8/12/2020	3/1/2021
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Notes:

1. µg/L = Micrograms per liter (parts per billion).
2. U = Analyte was not detected.
3. A = Summed value based on limited number of analytes.
4. UJ = The not detected result is estimated. The reporting limit may be inaccurate or imprecise.
5. J+ = Result is estimated and may be biased high.

Table 6c
Groundwater Analytical Results – Organochlorine Pesticides, Transect 5
Willamette Cove
Portland, Oregon

6. J = Result is an estimated value.
7. Bold Box = Value exceeds Portland Harbor ROD Cleanup Level (CUL). If no ROD CUL exists, the value exceeds, JSCS SLV.
8. JSCS SLV = Portland Harbor Joint Source Control Strategy Screening Level Values, December 2005.
9. ROD = Record of Decision from US Environmental Protection Agency Cleanup Levels for the Portland Harbor Superfund Site, Table 17, Groundwater, January 2017 (updated per Errata #2, January 2020).
10. -- = Not available.

Note: Base map prepared from USGS 7.5-minute quadrangles of Linnton and Portland, OR, dated 2020 as provided by USGS.gov.

0 2,000 4,000

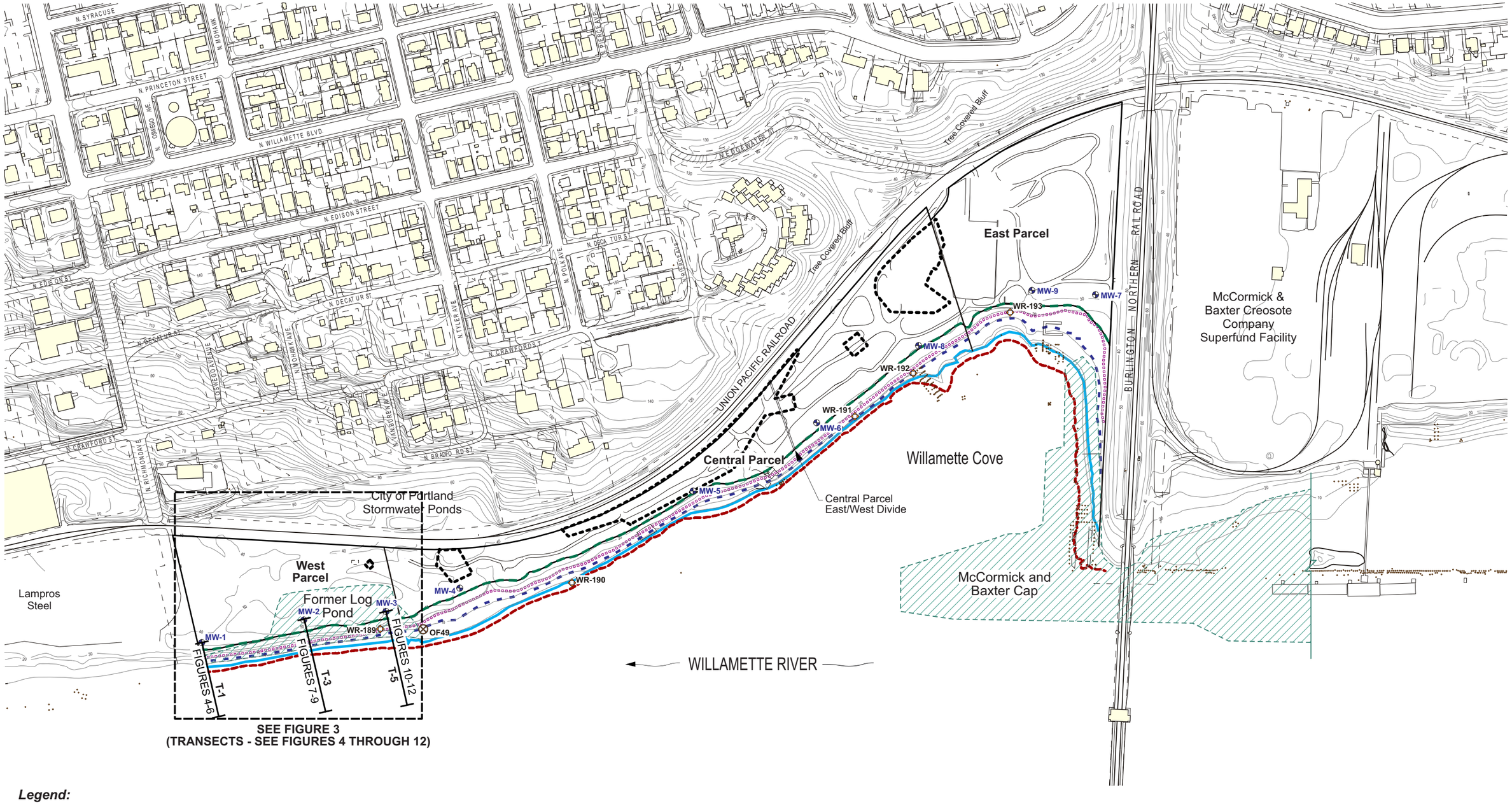
Approximate Scale in Feet

Facility Location Map

2025 Groundwater Source Control Evaluation Data Report
Willamette Cove Upland Facility
Portland, Oregon

Apex Companies, LLC 15618 SW 72nd Avenue Tigard, Oregon 97224	Project Number: 320001056-17	Drawn: JP	Approved: HFC	Figure 1
	January 2026			

I:\Client\Port of Portland\00-PH905\05 WC\01 Repts and Wk Plans\19 GW SCE_SCAE\2025 WC GW SCE\320001056-17 01 (Facility Location Map).des



Legend:

- MW-1 — Monitoring Well Location
- OF49 — City of Portland Outfall
- WR-189 — Potential Historical Outfall (Inactive)
- 2008 and 2015 Removal Action Areas
- Transect Location (See Figures 4 through 12)
- Upper Source Control Screening Boundary (Corresponds to Top of Bank Plus Areas of Potentially Erodible Soil)
- Ordinary High Water Line (20.1NAVD88)
- Mean High Water Line (13.3NAVD88)
- Ordinary Low Water Line (6.9NAVD88)
- -2 Columbia River Datum (3.2NAVD88)

0 300 600

Approximate Scale in Feet

Source: Base map prepared from an electronic file provided by Hart Crowser.

Facility Plan

2025 Groundwater Source Control Evaluation Data Report
Willamette Cove Upland Facility
Portland, Oregon

Apex Companies, LLC
15618 SW 72nd Avenue
Tigard, Oregon 97224

Project Number:	Drawn:	Approved:	Figure
320001056-17	JP	HFC	2
January 2026			

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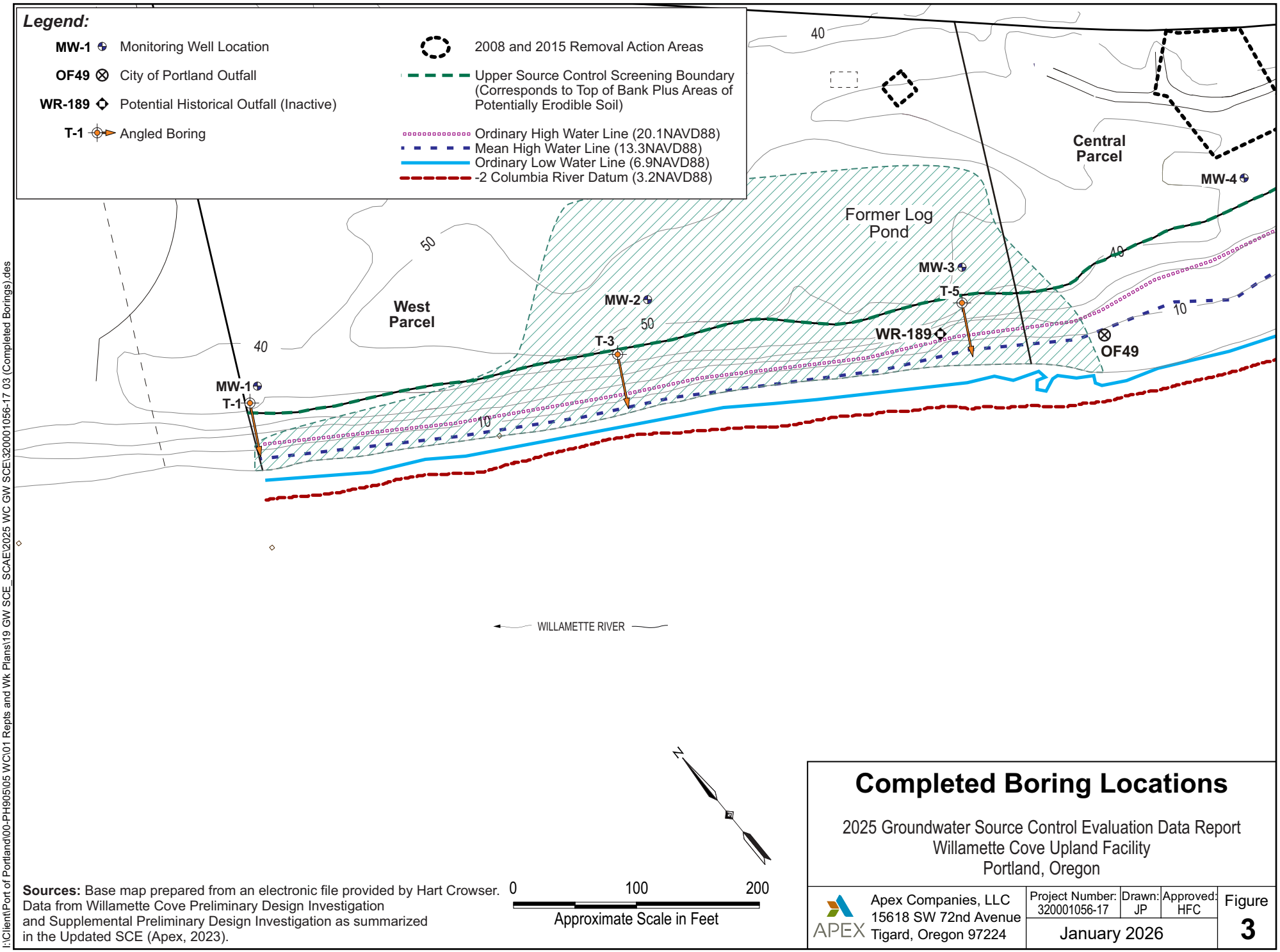

Sources: Base map prepared from an electronic file provided by Hart Crowser. Data from Willamette Cove Preliminary Design Investigation and Supplemental Preliminary Design Investigation as summarized in the Updated SCE (Apex, 2023).

Completed Boring Locations

2025 Groundwater Source Control Evaluation Data Report
Willamette Cove Upland Facility
Portland, Oregon

Apex Companies, LLC
15618 SW 72nd Avenue
Tigard, Oregon 97224

Project Number:	Drawn:	Approved:	Figure
320001056-17	JP	HFC	3

January 2026

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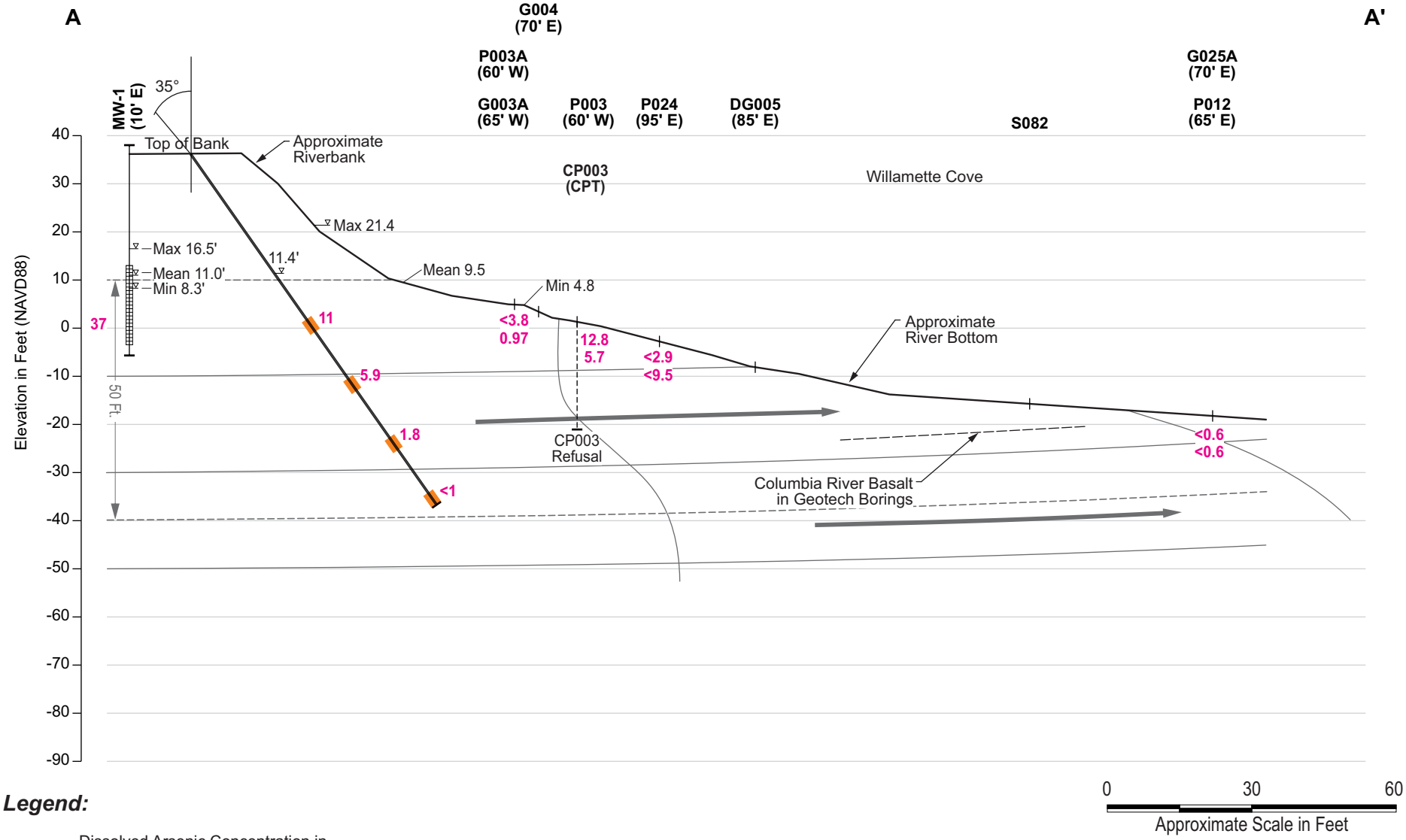


Legend:

37 Dissolved Arsenic Concentration in micrograms per Liter (µg/L)

Angled Boring Location and Discrete Groundwater Sample (From Top of Bank)

Water Level

Approximate Groundwater Flow Path (Dashed Where Greater Uncertainty)

NOTES: 1) Water level monitoring period is from November 2020 to June 2023.
2) Groundwater sampling date from March 6, 2025 to March 7, 2025.
3) Porewater samples P003 through P006 collected at 0.5 feet and 1.5 feet below mudline in September 2020.
4) Porewater samples P003A and P0012 through P028 collected at 0.5-1.0 feet and 1.5-2.0 feet below mudline in October 2022.

Dissolved Arsenic in Groundwater - Transect 1

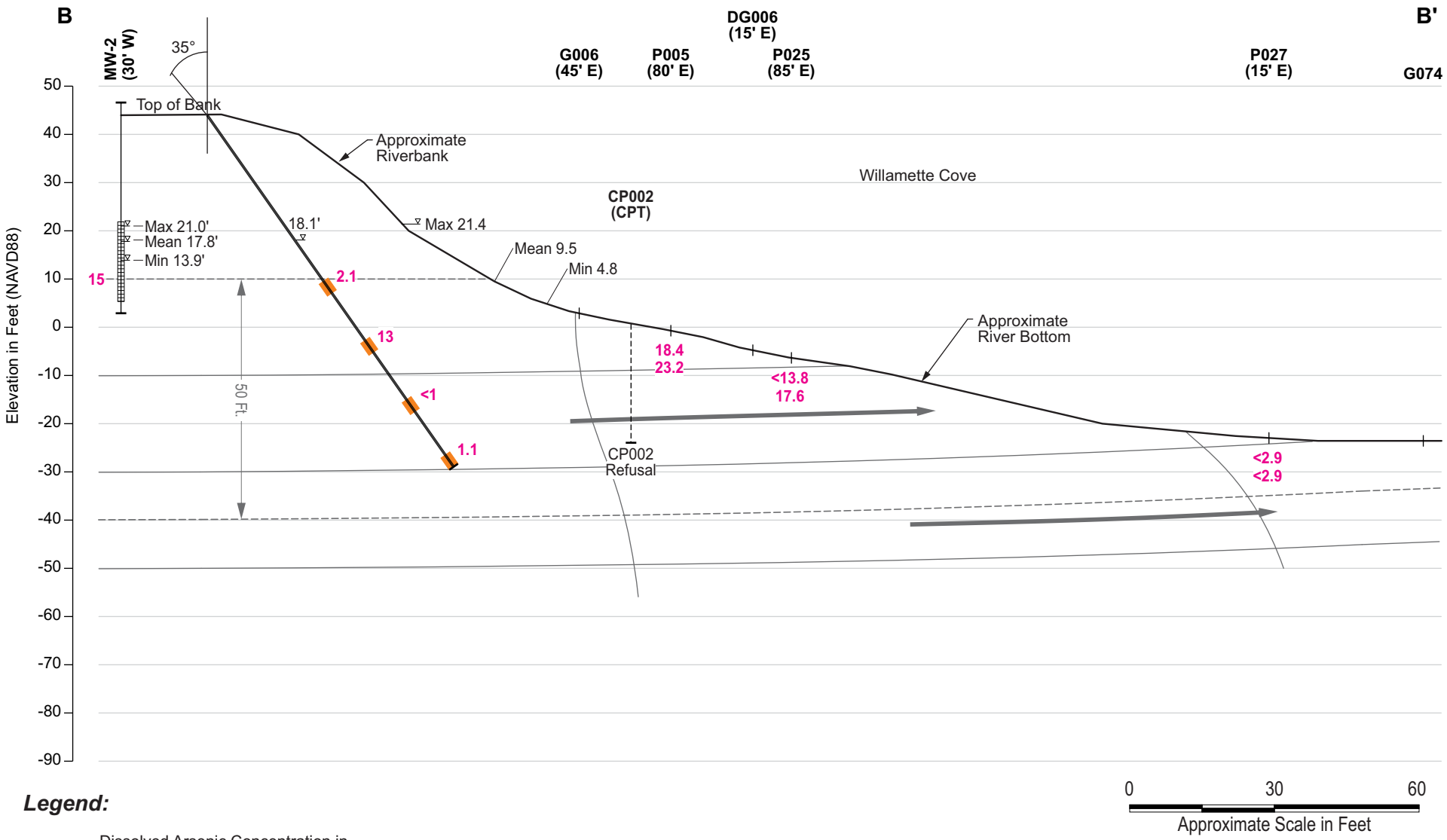
2025 Groundwater Source Control Evaluation Data Report
Willamette Cove Upland Facility
Portland, Oregon

Apex Companies, LLC
15618 SW 72nd Avenue
Tigard, Oregon 97224

Project Number:	Drawn:	Approved:	Figure
320001056-17	JP	HFC	4

January 2026

I:\Client\Port of Portland\00-PH905\05 WC\01 Repts and Wk Plans\19 GW SCE_SCAE\2025 WC GW SCE\320001056-17 04-06 (Riverbank X-Sections Diss. As).des



Legend:

37 Dissolved Arsenic Concentration in micrograms per Liter (µg/L)

Angled Boring Location and Discrete Groundwater Sample (From Top of Bank)

Water Level

Approximate Groundwater Flow Path (Dashed Where Greater Uncertainty)

NOTES: 1) Water level monitoring period is from November 2021 to June 2023.
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3) Porewater samples P003 through P006 collected at 0.5 feet and 1.5 feet below mudline in September 2020.
4) Porewater samples P003A and P0012 through P028 collected at 0.5-1.0 feet and 1.5-2.0 feet below mudline in October 2022.

Dissolved Arsenic in Groundwater - Transect 3

2025 Groundwater Source Control Evaluation Data Report
Willamette Cove Upland Facility
Portland, Oregon

Apex Companies, LLC
15618 SW 72nd Avenue
Tigard, Oregon 97224

Project Number:	Drawn:	Approved:	Figure
320001056-17	JP	HFC	5

January 2026

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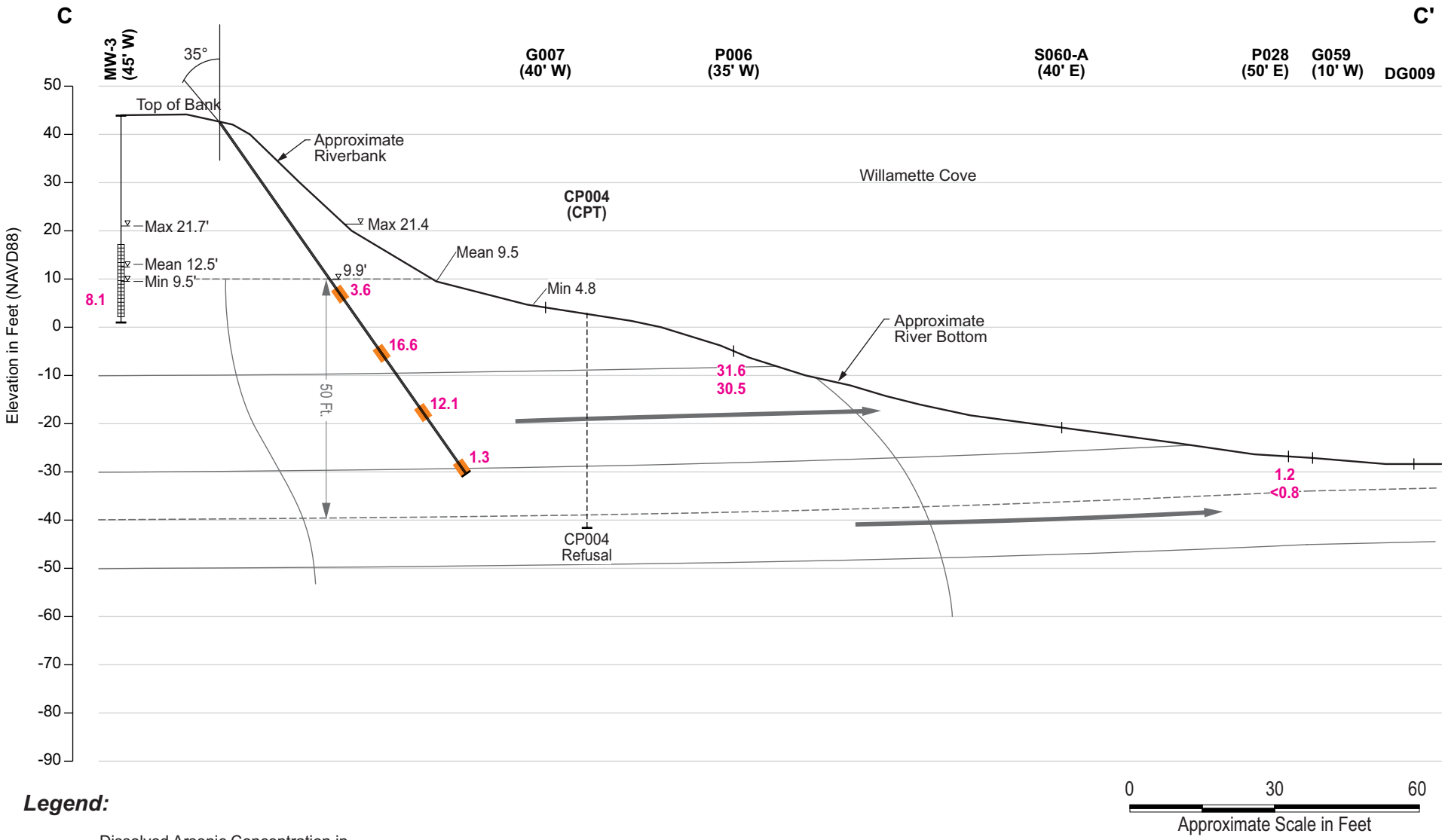

Legend:

37 Dissolved Arsenic Concentration in micrograms per Liter (µg/L)

Angled Boring Location and Discrete Groundwater Sample (From Top of Bank)

Water Level

Approximate Groundwater Flow Path (Dashed Where Greater Uncertainty)

NOTES: 1) Water level monitoring period is from November 2021 to June 2023.
2) Groundwater sampling date from March 4, 2025 to March 11, 2025.
3) Porewater samples P003 through P006 collected at 0.5 feet and 1.5 feet below mudline in September 2020.
4) Porewater samples P003A and P0012 through P028 collected at 0.5-1.0 feet and 1.5-2.0 feet below mudline in October 2022.

Dissolved Arsenic in Groundwater - Transect 5

2025 Groundwater Source Control Evaluation Data Report
Willamette Cove Upland Facility
Portland, Oregon

Apex Companies, LLC
15618 SW 72nd Avenue
Tigard, Oregon 97224

Project Number:	Drawn:	Approved:	Figure
320001056-17	JP	HFC	6

January 2026

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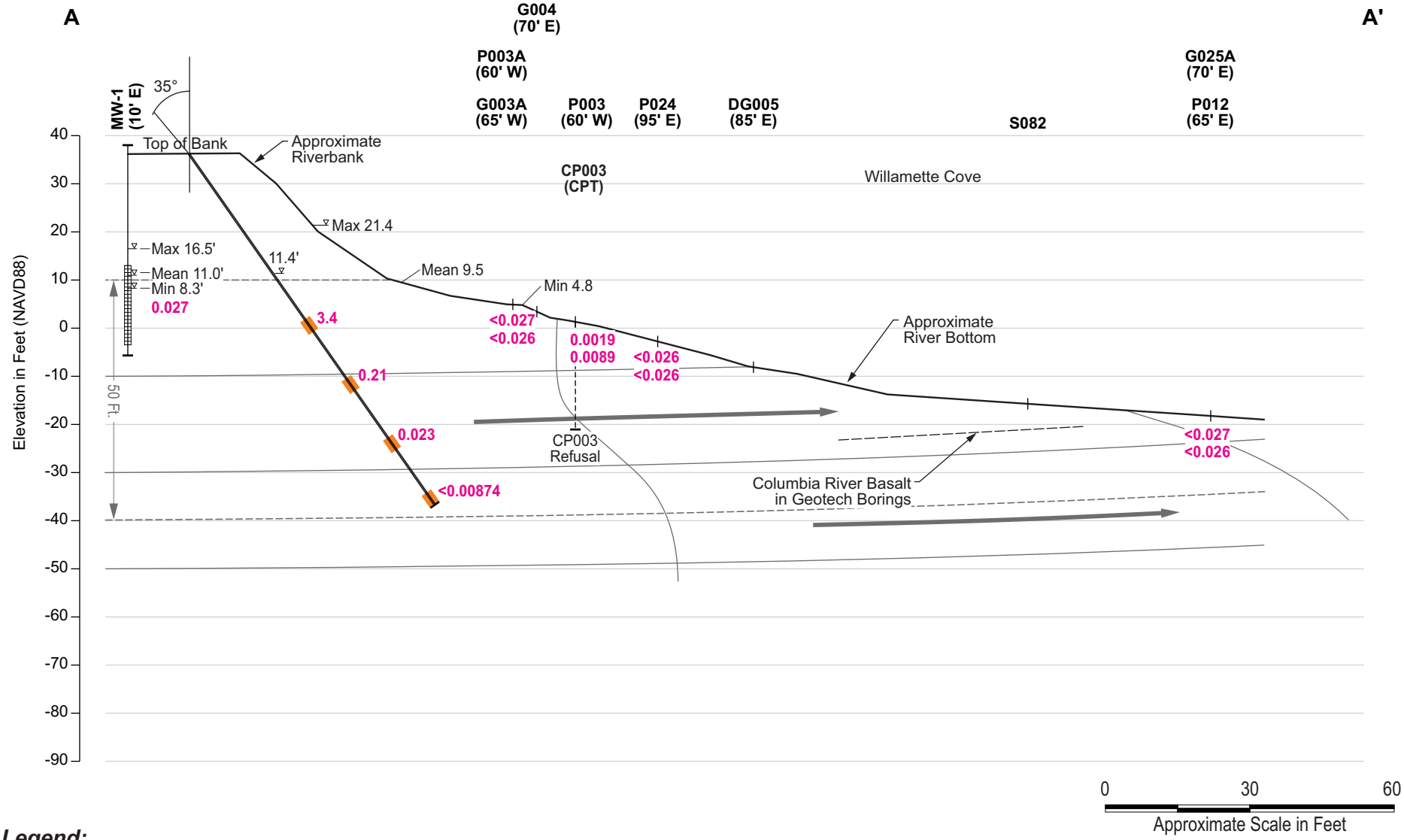

Legend:

3.4 Benzo(a)Pyrene Toxicity Equivalents (BaP Eq) Concentration in micrograms per Liter (µg/L)

Angled Boring Location and Discrete Groundwater Sample (From Top of Bank)

Water Level

Approximate Groundwater Flow Path (Dashed Where Greater Uncertainty)

NOTES: 1) Water level monitoring period is from November 2020 to June 2023.
2) Groundwater sampling date from March 6, 2025 to March 7, 2025.
3) Porewater samples P003 through P006 collected at 0.5 feet and 1.5 feet below mudline in September 2020.
4) Porewater samples P003A and P0012 through P028 collected at 0.5-1.0 feet and 1.5-2.0 feet below mudline in October 2022.

Carcinogenic PAHs in Groundwater - Transect 1

2025 Groundwater Source Control Evaluation Data Report
Willamette Cove Upland Facility
Portland, Oregon

Apex Companies, LLC
15618 SW 72nd Avenue
Tigard, Oregon 97224

Project Number:	Drawn:	Approved:	Figure
320001056-17	JP	HFC	7

January 2026

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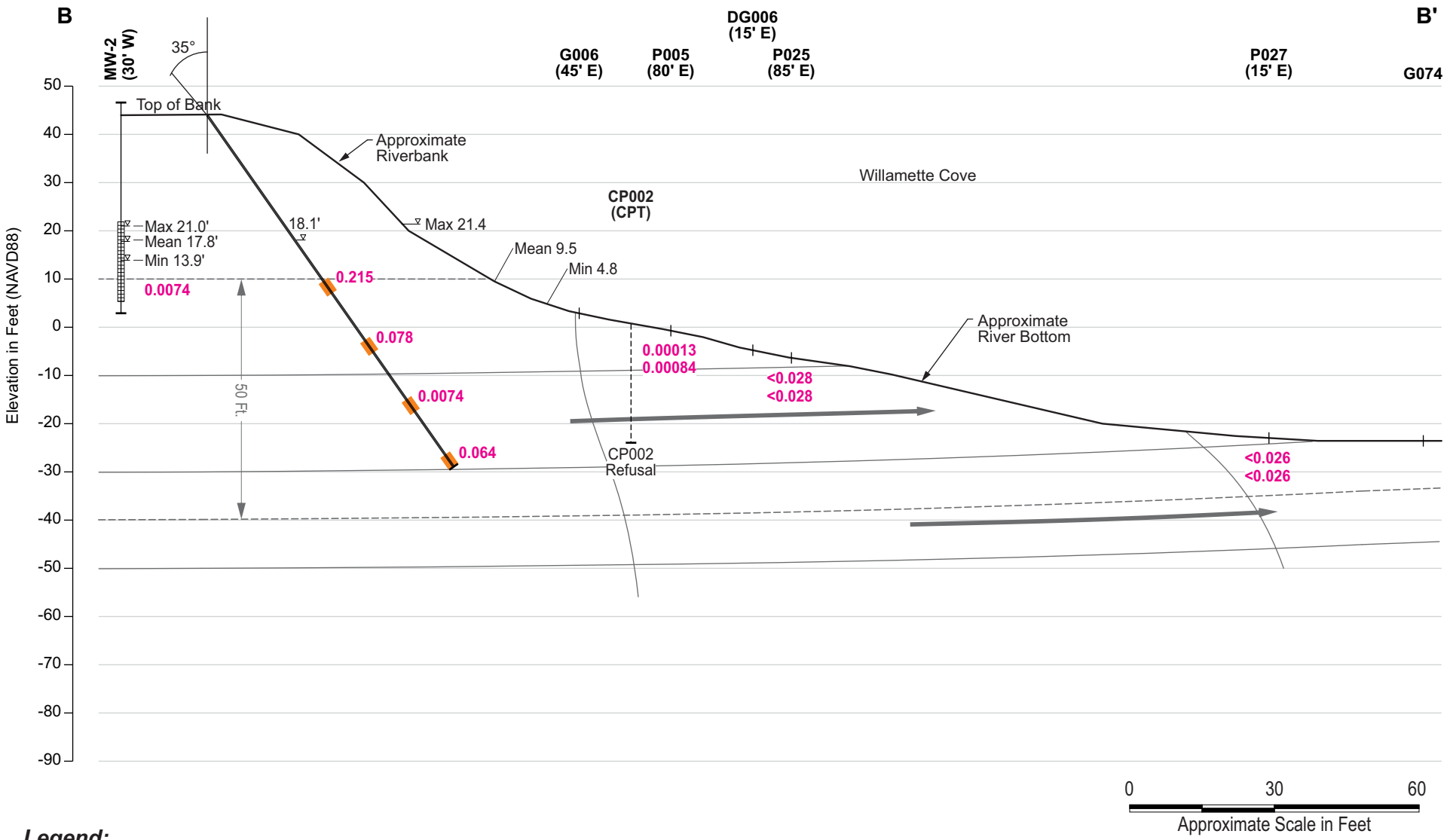

Legend:

0.215 — Benzo(a)Pyrene Toxicity Equivalents (BaP Eq) Concentration in micrograms per Liter (µg/L)

Angled Boring Location and Discrete Groundwater Sample (From Top of Bank)

Water Level

Approximate Groundwater Flow Path (Dashed Where Greater Uncertainty)

NOTES: 1) Water level monitoring period is from November 2021 to June 2023.
2) Groundwater sampling date from February 27, 2025 to March 6, 2025.
3) Porewater samples P003 through P006 collected at 0.5 feet and 1.5 feet below mudline in September 2020.
4) Porewater samples P003A and P0012 through P028 collected at 0.5-1.0 feet and 1.5-2.0 feet below mudline in October 2022.

Carcinogenic PAHs in Groundwater - Transect 3

2025 Groundwater Source Control Evaluation Data Report
Willamette Cove Upland Facility
Portland, Oregon

Apex Companies, LLC
15618 SW 72nd Avenue
Tigard, Oregon 97224

Project Number:	Drawn:	Approved:	Figure
320001056-17	JP	HFC	8

January 2026

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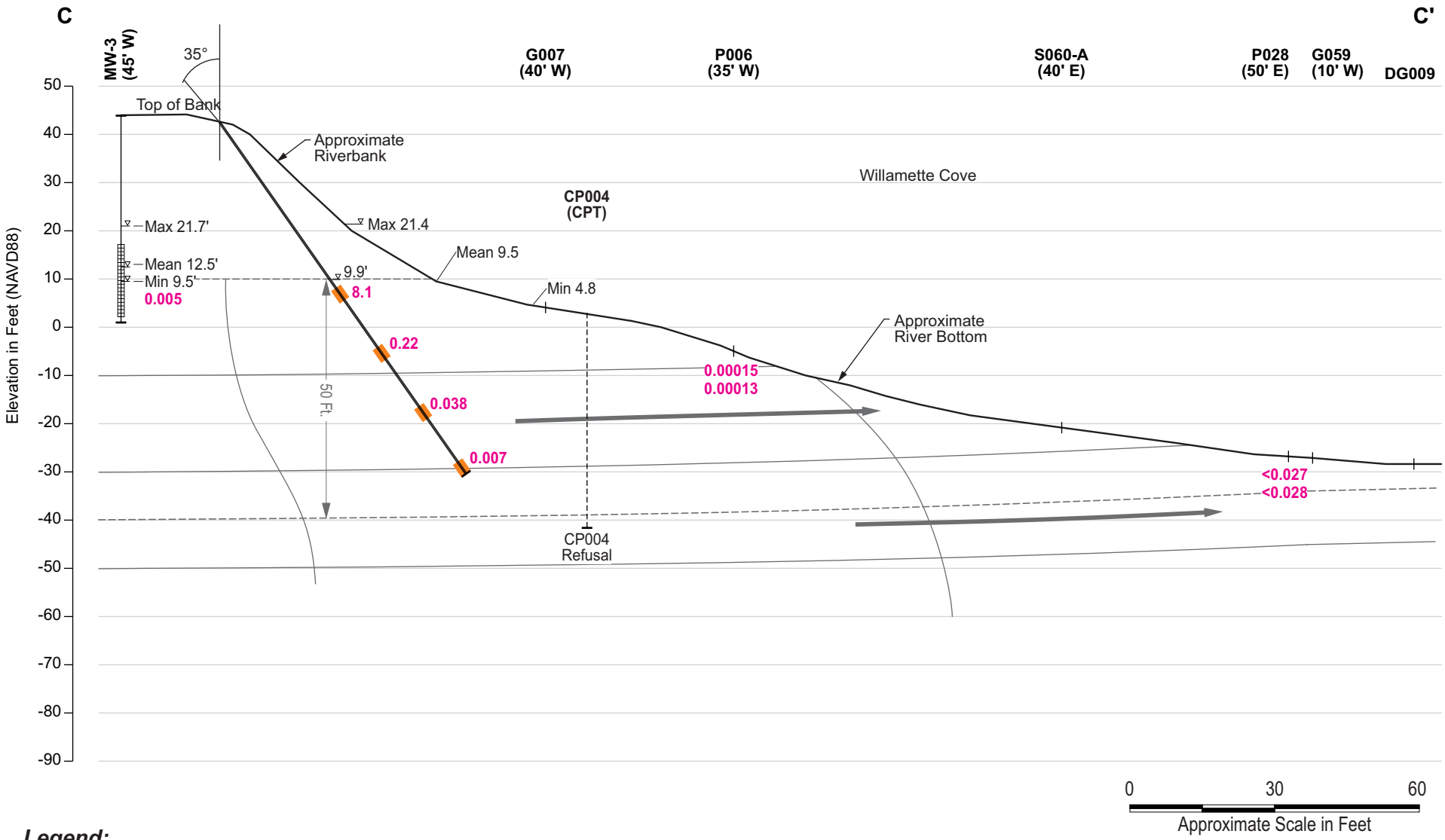

Legend:

8.1 Benzo(a)Pyrene Toxicity Equivalents (BaP Eq) Concentration in micrograms per Liter (µg/L)

Angled Boring Location and Discrete Groundwater Sample (From Top of Bank)

Water Level

Approximate Groundwater Flow Path (Dashed Where Greater Uncertainty)

NOTES: 1) Water level monitoring period is from November 2021 to June 2023.
2) Groundwater sampling date from March 4, 2025 to March 11, 2025.
3) Porewater samples P003 through P006 collected at 0.5 feet and 1.5 feet below mudline in September 2020.
4) Porewater samples P003A and P0012 through P028 collected at 0.5-1.0 feet and 1.5-2.0 feet below mudline in October 2022.

Carcinogenic PAHs in Groundwater - Transect 5

2025 Groundwater Source Control Evaluation Data Report
Willamette Cove Upland Facility
Portland, Oregon

Apex Companies, LLC
15618 SW 72nd Avenue
Tigard, Oregon 97224

Project Number: 320001056-17	Drawn: JP	Approved: HFC	Figure 9
January 2026			

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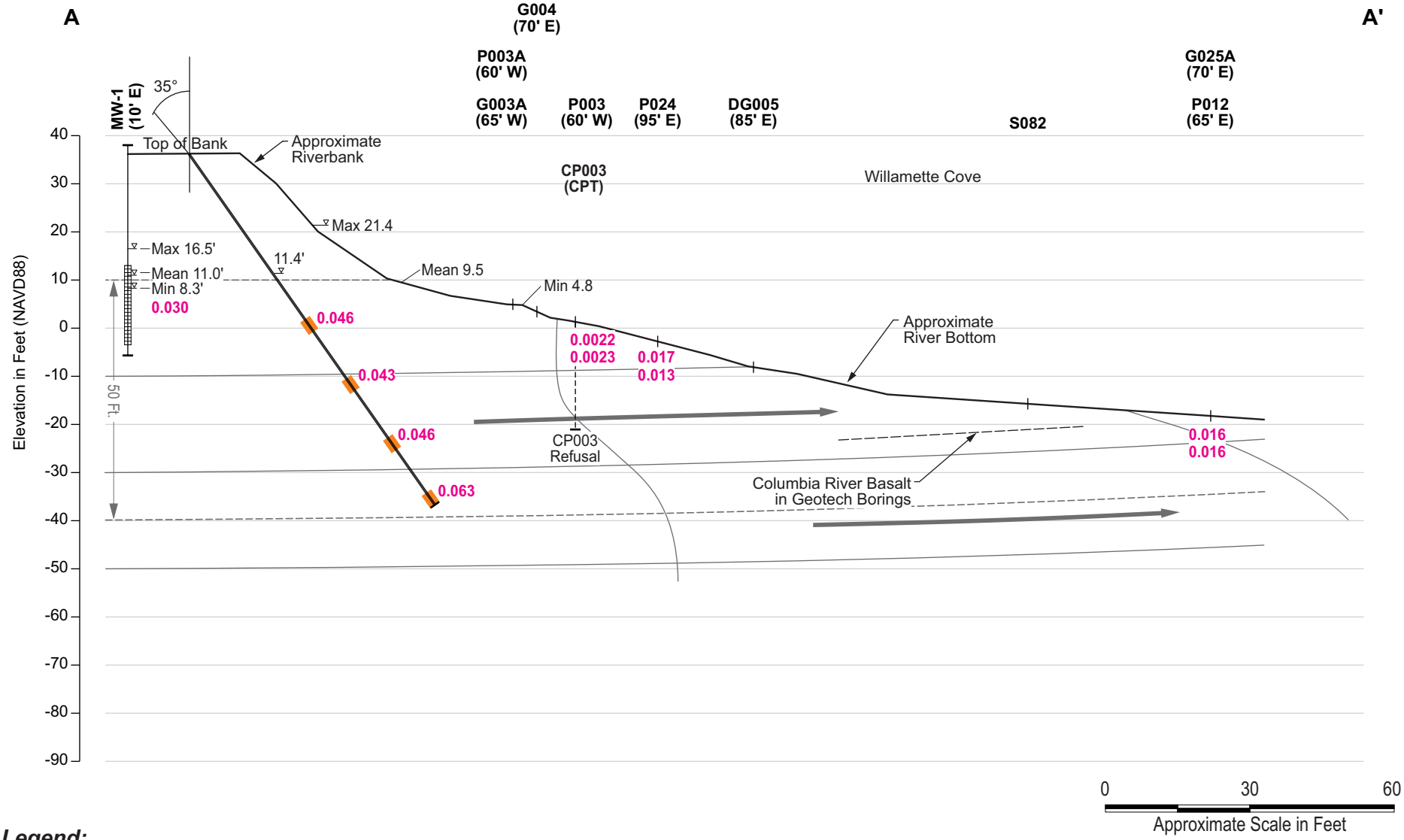

Legend:

0.046 Benzo(a)Pyrene Toxicity Equivalents (BaP Eq) Concentration in micrograms per Liter (µg/L)

Angled Boring Location and Discrete Groundwater Sample (From Top of Bank)

Water Level

Approximate Groundwater Flow Path (Dashed Where Greater Uncertainty)

NOTES: 1) Water level monitoring period is from November 2020 to June 2023.
2) Groundwater sampling date from March 6, 2025 to March 7, 2025.
3) Porewater samples P003 through P006 collected at 0.5 feet and 1.5 feet below mudline in September 2020.
4) Porewater samples P003A and P0012 through P028 collected at 0.5-1.0 feet and 1.5-2.0 feet below mudline in October 2022.

PCBs in Groundwater - Transect 1

2025 Groundwater Source Control Evaluation Data Report
Willamette Cove Upland Facility
Portland, Oregon

Apex Companies, LLC
15618 SW 72nd Avenue
Tigard, Oregon 97224

Project Number:	Drawn:	Approved:	Figure
320001056-17	JP	HFC	10

January 2026

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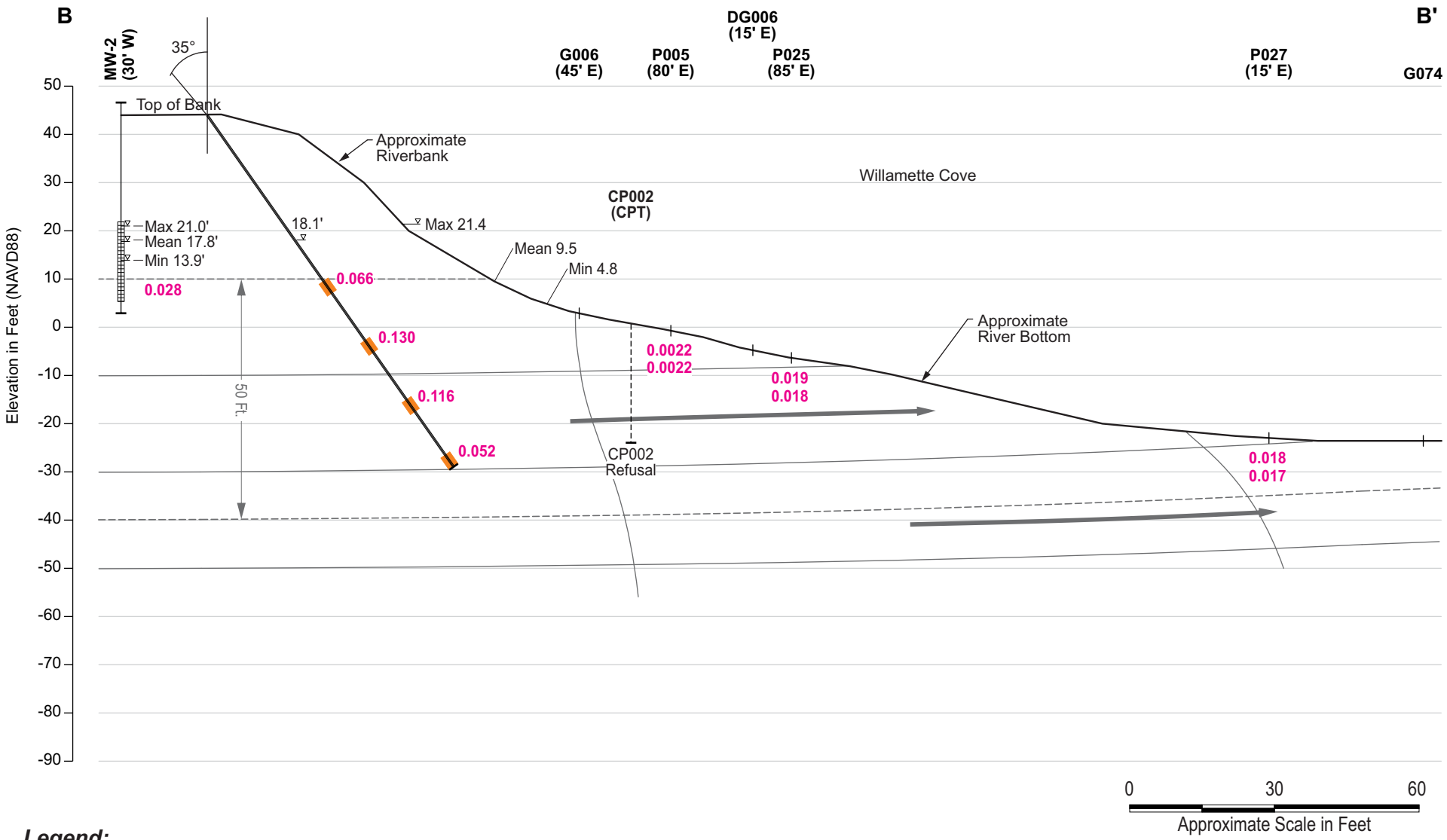

Legend:

0.066 — Benzo(a)Pyrene Toxicity Equivalents (BaP Eq) Concentration in micrograms per Liter (µg/L)

Angled Boring Location and Discrete Groundwater Sample (From Top of Bank)

Water Level

Approximate Groundwater Flow Path (Dashed Where Greater Uncertainty)

NOTES: 1) Water level monitoring period is from November 2021 to June 2023.
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PCBs in Groundwater - Transect 3

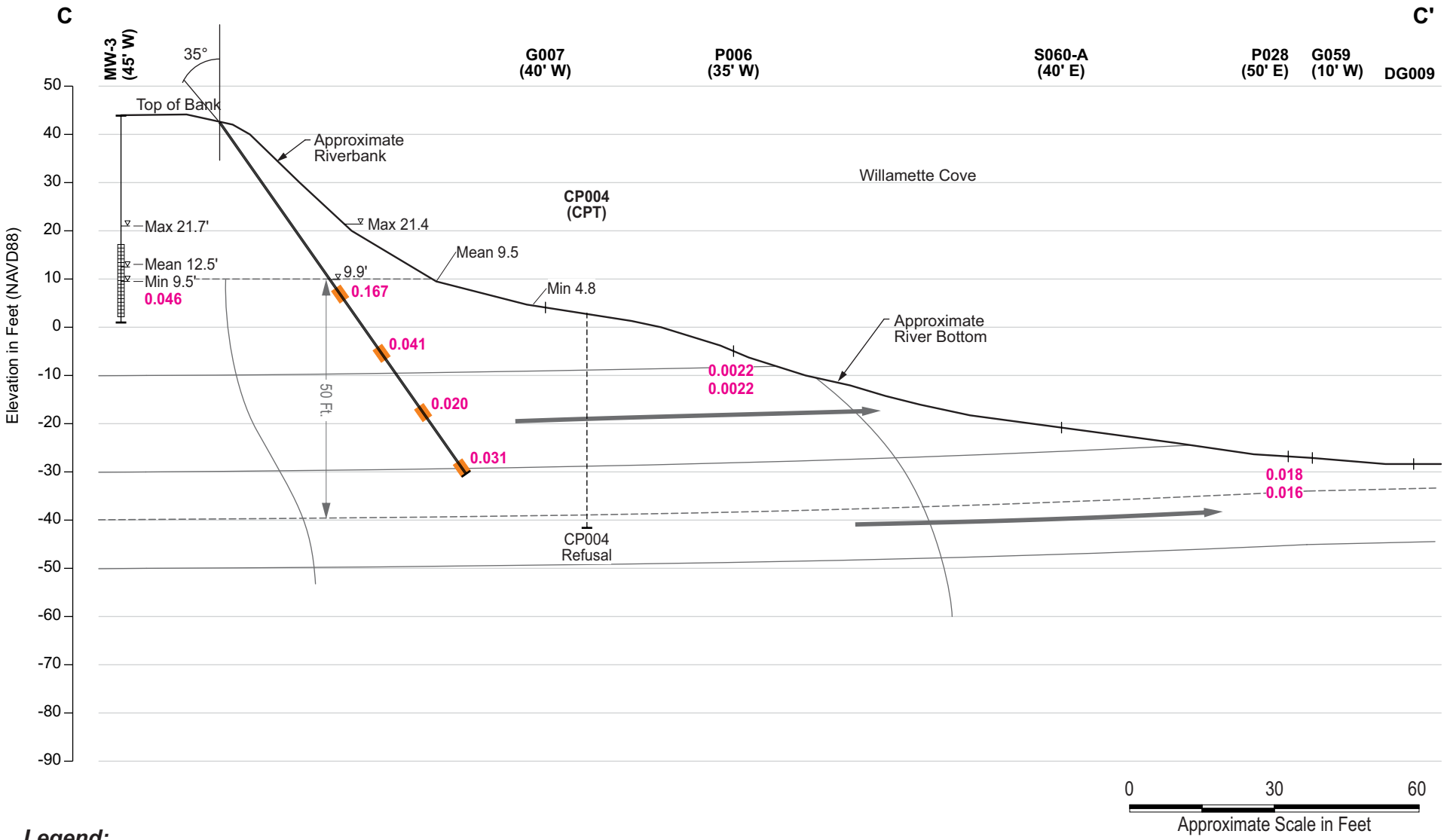
2025 Groundwater Source Control Evaluation Data Report
Willamette Cove Upland Facility
Portland, Oregon

Apex Companies, LLC
15618 SW 72nd Avenue
Tigard, Oregon 97224

Project Number:	Drawn:	Approved:	Figure
320001056-17	JP	HFC	11

January 2026

I:\Client\Port of Portland\00-PH905\05 WC\01 Repts and Wk Plans\19 GW SCE_SCAE\2025 WC GW SCE\320001056-17 10-12 (Riverbank X-Sections PCBs).des



Legend:

0.167 Benzo(a)Pyrene Toxicity Equivalents (BaP Eq) Concentration in micrograms per Liter (µg/L)

Angled Boring Location and Discrete Groundwater Sample (From Top of Bank)

Water Level

Approximate Groundwater Flow Path (Dashed Where Greater Uncertainty)

NOTES: 1) Water level monitoring period is from November 2021 to June 2023.
2) Groundwater sampling date from March 4, 2025 to March 11, 2025.
3) Porewater samples P003 through P006 collected at 0.5 feet and 1.5 feet below mudline in September 2020.
4) Porewater samples P003A and P0012 through P028 collected at 0.5-1.0 feet and 1.5-2.0 feet below mudline in October 2022.

PCBs in Groundwater - Transect 5

2025 Groundwater Source Control Evaluation Data Report
Willamette Cove Upland Facility
Portland, Oregon

Apex Companies, LLC
15618 SW 72nd Avenue
Tigard, Oregon 97224

Project Number:	Drawn:	Approved:	Figure
320001056-17	JP	HFC	12

January 2026

I:\Client\Port of Portland\00-PH905\05 WC\01 Repts and Wk Plans\19 GW SCE_SCAE\2025 WC GW SCE\320001056-17 10-12 (Riverbank X-Sections PCBs).des

Appendix A

Groundwater Sampling Field Documentation and Exploration Logs

WELL MONITORING DATA SHEET

APEX	Apex Companies, LLC 15618 SW 72nd Ave. Portland, OR 97224	Well I.D.	MW-1	Job Number:	1056-17
		Client:	POP Metro	Date:	3/6/25
		Project:	WC SCE	Sampler:	Holly Romer
		Weather:	43° Sunny	Time In/Out:	910 / 1315

WELL DATA

Well Depth:	42'	Well Diameter:	2in	Water Height	
Depth to Water:	26.45	Screened Interval:		x Multiplier	
Water Column Length:	15.55	Depth to Free Product:		x Casing Volumes	
Purge Volume:	1.25 g	Free Product Thickness:		= Purge Volume	
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method:	low flow			Pump Intake Depth:	33'					Comments	
Sampling Method:	low flow			Tubing Type:	PTFE						
Time	Volume Purged (liters)	Cumulative Volume Purged (~~liters~~ gallons)	DTW (btc)	Purge Rate (L/min)	pH	Temp (°C)	Cond (µS/cm)	DO (~~ppm~~ mg/L)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/-0.1	+/-3%	+/-3%	+/- 10%	+/-10mV	+/-10%	<-- Stabilization Criteria
1203			26.53	~250	6.99	12.9	962	0.63	-112.9		C
1206			26.50		7.00	12.8	965	0.51	-116.9		C
1209			26.50		7.00	12.8	966	0.47	-117.9		C
1212			26.50		7.00	12.8	967	0.43	-119.0		C
1215			26.50		7.01	13.0	968	0.48	-118.8		C
1218			26.50		7.01	12.9	969	0.46	-119.6		C
1221			26.50		7.00	12.9	970	0.38	-120.6		C
1224			26.50		7.00	13.1	968	0.36	-121.0		C
1227			26.50		7.02	13.2	972	0.34	-122.7		C
		1.25g								21.7	

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID:	MW-1	Sampling Flow Rate	0.25	Analytical Laboratory:	Apex
Sample Time:	1300	Final Depth to Water:	26.50	Did Well Dewater?	NO

# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
4 x 1L ambers	NP	8081 B PCB	yes (no)			
2 x 125ml ambers	NP	PAH	yes (no)			
1 x 250ml poly	NP	Nitrate/Sulfate	yes (no)			
1 x 250 ml poly	H_2SO_4	TOC	yes (no)			
1 x 250ml poly	HNO_3	total & dis metals	yes (no)			
1 x 250 ml poly	HNO_3	total & diss metals	(yes) no	0.45µm		

COMMENTS

~~Bladder~~ pump

$Fe^{2+} = 5.0$

WELL MONITORING DATA SHEET

Apex Companies, LLC
15618 SW 72nd Ave.
Portland, OR 97224

Well I.D.	MW-2	Job Number:	1056
Client:	POP Metro	Date:	3/6/25
Project:	WC SCE	Sampler:	Holly Romer
Weather:	Sunny 50s	Time In/Out:	1340

WELL DATA

Well Depth:		Well Diameter:	2 in	Water Height	
Depth to Water:	28.09	Screened Interval:		x Multiplier	
Water Column Length:		Depth to Free Product:		x Casing Volumes	
Purge Volume:	2 L	Free Product Thickness:		= Purge Volume	
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method:	low flow	Pump Intake Depth:	31 in	Comments	
Sampling Method:	low flow	Tubing Type:			

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (L/min)	pH	Temp (°C)	Cond (µS/cm)	DO (~~ppm~~ mg/L)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/-0.1	+/-3%	+/-3%	~~+/-10%~~	+/-10mV	+/-10%	<-- Stabilization Criteria
1350			28.09	≈200	10.95	13.2	266.5	0.70	-206.7		Yellow
1354			28.12		10.96	13.1	265.6	0.37	-228.9		
1358			28.19		10.96	13.2	265.3	0.33	-227.8		
1403			28.21		10.96	13.2	265.1	0.33	-228.8		
	2	2								1.89	

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID:	MW-2	Sampling Flow Rate	≈ 100	Analytical Laboratory:	Apex
Sample Time:	~~1405~~ 1415	Final Depth to Water:	28.93	Did Well Dewater?	NO

# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
4×1L ambers	NP	8081B PCB	yes (no)			~~MW-2 DUP~~
2×125 ml ambers	NP	PAH	yes (no)			
1×250 ml poly	NP	Nitrate Sulfate	yes (no)			
1×250 ml poly	H_2SO_4	TOC	yes no			
1×250 ml poly	HNO_3	total & diss metals	yes no			
1×250 poly	HNO_3	" " "	yes no	0.45 µm		

COMMENTS

P - pump

Fe^{2+} = 5.0

WELL MONITORING DATA SHEET

APEX	Apex Companies, LLC 15618 SW 72nd Ave. Portland, OR 97224	Well I.D.	MW-3	Job Number:	1056-17
		Client:	POP Metro	Date:	3/11/25
		Project:	WC SCE	Sampler:	CW
		Weather:	45° Cloudy	Time In/Out:	1025/1320

WELL DATA

Well Depth:	45.60		Well Diameter:	2 in		Water Height	
Depth to Water:	34.19		Screened Interval:			x Multiplier	
Water Column Length:	11.41		Depth to Free Product:			x Casing Volumes	
Purge Volume:	1.40		Free Product Thickness:			= Purge Volume	
Water Height Multipliers (gal)		1-inch = 0.041	2-inch = 0.162		4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method:	low flow			Pump Intake Depth:	~40'					Comments	
Sampling Method:	low flow			Tubing Type:	PTFE						
Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (L/min)	pH	Temp (°C)	Cond (µS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/-0.1	+/-3%	+/-3%	+/- 10%	+/-10mV	+/-10%	<-- Stabilization Criteria
1100	.20	.20	34.27	.20	6.26	12.5	~~901~~ 904	0.54	-56.7		clear
1103	.60	.80	34.25	.20	6.26	12.2	905	0.40	-60.4		clear
1106	.60	1.40	34.25	.20	6.27	12.2	915	0.35	~~-60~~ -64.4	15.2	clear

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID:	MW-3, ~~MW-22~~ DUP	Sampling Flow Rate	0.20	Analytical Laboratory:	Apex
Sample Time:	1210, 1250	Final Depth to Water:	32.36	Did Well Dewater?	NO

# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
8 x 1L ambers	NP	8081B PCB	yes (no)		DUP→	~~MW-22~~
4 x 125 ml ambers	NP	PAH	yes (no)		DUP→	~~MW-22~~
2 x 250ml poly	NP	Nitrate/Sulfate	yes (no)		DUP→	~~MW-22~~
2 x 250ml poly	H_2SO_4	TOC	yes (no)		DUP→	~~MW-22~~
2x250 ml poly	HNO_3	total & diss metals	yes (no)		DUP→	~~MW-22~~
2x250 ml poly	HNO_3	total & diss. metals	(yes) no	0.45µm	DUP→	~~MW-22~~

COMMENTS

Fe^{2+} = 3.5. ~~MW-22 is a duplicate of MW-3.~~

WELL MONITORING DATA SHEET

APEX	Apex Companies, LLC 15618 SW 72nd Ave. Portland, OR 97224	Well I.D.	TI-GW-~~X~~34	Job Number:	1056-17
		Client:	PDP Metro	Date:	3/6/25
		Project:	WC SCE	Sampler:	CW/ITR
		Weather:	45° Sunny	Time In/Out:	10:40

WELL DATA

~~Well Depth:~~ Boring *	42' DD/35' bgs		Well Diameter:			Water Height	
Depth to Water:	37' DD/31' bgs		Screened Interval:			x Multiplier	
Water Column Length:			Depth to Free Product:			x Casing Volumes	
Purge Volume:	12 L		Free Product Thickness:			= Purge Volume	
Water Height Multipliers (gal)		1-inch = 0.041	2-inch = 0.162		4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method:	Low flow			Pump Intake Depth:	34'					Comments	
Sampling Method:	Low flow			Tubing Type:	PTFE						
Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (L/min)	pH	Temp (°C)	Cond (µS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/-0.1	+/-3%	+/-3%	+/- 10%	+/-10mV	+/-10%	<-- Stabilization Criteria
1254	12L	12L		0.40	9.66	18.58	~~433~~ ~~435~~ (CW) units corrected	5.85	37.2		VC, Brown
DEWATERED											

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID:	TI-GW-~~X~~34	Sampling Flow Rate	0.40	Analytical Laboratory:	Apex	
Sample Time:	1350	Final Depth to Water:	N/A	Did Well Dewater?	Yes	
# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
4x1L Ambers	NP	3081B PCB	yes (no)			
2x125ml ambers	NP	PAH	yes (no)			
1x250 ml poly	NP	Nitrate/Sulfate	yes (no)			
1x250ml poly	H_2SO_4	TOC	yes (no)			
1x250ml poly	HNO_3	total & diss metals	yes (no)			
1x250ml poly	HNO_3	" " "	(yes) no	0.45µm		

COMMENTS

Monsoon pump Fe2+ = 0.5

* DD = Drilling distance, bgs = ~~actual~~ vertical distance

WELL MONITORING DATA SHEET

APEX	Apex Companies, LLC 15618 SW 72nd Ave. Portland, OR 97224	Well I.D.	TI-GW-46	Job Number:	1056-17
		Client:	POP Metro	Date:	3/6/25
		Project:	WC SCE	Sampler:	CW
		Weather:	54° Sunny	Time In/Out:	14:50

* DD = drilling distance

WELL DATA

Well Depth:	57'DD/47' bgs	Well Diameter:		Water Height	
Depth to Water:	36'DD/30' bgs	Screened Interval:		x Multiplier	
Water Column Length:		Depth to Free Product:		x Casing Volumes	
Purge Volume:		Free Product Thickness:		= Purge Volume	
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method:				Pump Intake Depth:						Comments	
Sampling Method:				Tubing Type:							
Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (L/min)	pH	Temp (°C)	Cond (µS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/-0.1	+/-3%	+/-3%	+/- 10%	+/-10mV	+/-10%	<-- Stabilization Criteria
1605	15 L	15 L	-	0.45	7.95	17.6	753 0.753 (CW) units corrected	2.62	-164.0	-	VC Brown
1606	DEWATERED										

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID:	TI-GW-46	Sampling Flow Rate	0.45	Analytical Laboratory:	Apex
Sample Time:	1610	Final Depth to Water:	N/A	Did Well Dewater?	Yes

# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
4 x 1L Ambers	NP	8081B PCB	yes (no)			
2 x 125ml Ambers	NP	PAH	yes (no)			
1 x 250ml poly	NP	Nitrate/Sulfate	yes (no)			
1 x 250 ml poly	H_2SO_4	TOC	yes (no)			
1 x 250ml poly	HNO_3	total & diss metals	yes (no)			
1 x 250ml poly	HNO_3	" " "	(yes) no	0.45 µm		

COMMENTS

Monsoon pump

Fe^{2r} = 0 → too cloudy

* DD = drilling distance, bgs = vertical distance

WELL MONITORING DATA SHEET

APEX	Apex Companies, LLC 15618 SW 72nd Ave. Portland, OR 97224	Well I.D.	TI-GW-58	Job Number:	1056-17
		Client:	POP Metro	Date:	3/7/25
		Project:	~~X~~ WC SCE	Sampler:	CW
		Weather:	40° Cloudy	Time In/Out:	8:55

WELL DATA

Well Depth:	72' DD / 59'*	Well Diameter:		Water Height	
Depth to Water:	31' DD / 26' BGS	Screened Interval:		x Multiplier	
Water Column Length:		Depth to Free Product:		x Casing Volumes	
Purge Volume:		Free Product Thickness:		= Purge Volume	
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method:	low flow	Pump Intake Depth:	58' bgs	Comments	
Sampling Method:	low flow	Tubing Type:	PTFE		

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (L/min)	pH	Temp (°C)	Cond (µS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/-0.1	+/-3%	+/-3%	+/- 10%	+/-10mV	+/-10%	<-- Stabilization Criteria
9:25	13	13	-	0.40	7.19	14.62	~~617~~.	1.26	-488.7	-	VC, grey
9:28	1.2	14.20	-	0.40	7.21	14.54	~~621~~.	1.27	-420.1	-	VC, grey
9:31	1.2	15.40	-	0.40	7.22	14.54	~~621~~.	1.27	-414.0	-	VC, brown
9:34	1.2	16.60	-	0.40	7.22	14.52	~~611~~.	1.48	-431.0	-	VC, brown
9:37	1.2	17.80	-	0.40	7.21	14.51	~~613~~.	1.36	-423.2	-	VC, brown
9:40	1.2	19.00	-	0.40	7.22	14.46	~~610~~.	1.31	-410.6	-	VC, brown
9:43	1.2	20.20	-	0.40	7.20	14.45	~~611~~.	1.29	-411.7	-	VC, brown
9:46	1.2	21.40	-	0.40	7.20	14.45	~~605~~.	1.29	-412.3	-	VC, brown
							(CW) units corrected				

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID:	TI-GW-58	Sampling Flow Rate	0.45	Analytical Laboratory:	Apex
Sample Time:	9:58	Final Depth to Water:	N/A	Did Well Dewater?	NO

# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
4x1L Ambers	NP	8081B PCB	yes (no)			
2x125ml Ambers	NP	PAH	yes (no)			
1x250ml poly	NP	Nitrate/Sulfate	yes (no)			
1x250ml poly	H_2SO_4	TOC	yes (no)			
1x250ml poly	HNO_3	total & diss metals	yes (no)			
1x250ml poly	HNO_3	" " "	(yes) no	0.45µm		

COMMENTS

Monsoon pump Fe 2+ = 2.5

* DD = drilling distance, bgs = vertical distance

WELL MONITORING DATA SHEET

APEX	Apex Companies, LLC 15618 SW 72nd Ave. Portland, OR 97224	Well I.D.	TI-GW-70	Job Number:	1056-17
		Client:	POP-Metro	Date:	3/7/25
		Project:	WC SCE	Sampler:	CW
		Weather:	51° partly cloudy	Time In/Out:	12:40

WELL DATA

Well Depth:	86'DD/71'bgs *		Well Diameter:			Water Height	
Depth to Water:	55'DD/45'bgs		Screened Interval:			x Multiplier	
Water Column Length:			Depth to Free Product:			x Casing Volumes	
Purge Volume:			Free Product Thickness:			= Purge Volume	
Water Height Multipliers (gal)		1-inch = 0.041	2-inch = 0.162		4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method:	Low flow			Pump Intake Depth:	70'					Comments	
Sampling Method:	Low flow			Tubing Type:	PTFE						
Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (L/min)	pH	Temp (°C)	Cond (µS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/-0.1	+/-3%	+/-3%	+/- 10%	+/-10mV	+/-10%	<-- Stabilization Criteria
1300	15L	15L	-	0.45	7.05	15.40	X269	7.20	35.1	-	VC brown
1303			-	0.45	6.90	15.17	X267	7.18	51.0	-	VC brown
1306			-	0.45	6.89	15.15	X269	7.17	51.7	-	VC, brown
1309				0.45	6.61	15.09	X267	7.16	55.7	-	VC, brown
1312				0.45	6.68	14.95	X267	7.26	54.6	-	C, brown
1315				0.45	6.60	14.95	X267	7.25	57.2	-	C, brown
							(CW) units were corrected				

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID:	TI-GW-70	Sampling Flow Rate	0.45	Analytical Laboratory:	Apex
Sample Time:	1323	Final Depth to Water:	N/A	Did Well Dewater?	NO

# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
4x 1L Ambers	NP	8081B PCB	yes (no)			
2x 125ml ambers	NP	PAH	yes (no)			
1x 250 ml poly	NP	Nitrate/Sulfate	yes (no)			
1x250ml poly	H_2SO_4	TOC	yes (no)			
1x 250 ml poly	HNO_3	total & diss metals	yes (no)			
1x250ml poly	HNO_3	" " "	(yes) no	0.45um		

COMMENTS

Monsoon pump Fe^{2+} = 0.5

* DD = drilling distance, bgs = vertical distance

WELL MONITORING DATA SHEET

APEX	Apex Companies, LLC 15618 SW 72nd Ave. Portland, OR 97224	Well I.D.	T3-GW-34	Job Number:	1056-17
		Client:	Port of Portland and Metro	Date:	2/27/25
		Project:	Willamette Cove Upland Facility	Sampler:	D. Kolpacki
		Weather:	60°, Sunny	Time In/Out:	1000 / 1430

WELL DATA

Well Depth:			Well Diameter:			Water Height	
Depth to Water:			Screened Interval:			x Multiplier	
Water Column Length:			Depth to Free Product:			x Casing Volumes	
Purge Volume:	6 L		Free Product Thickness:			= Purge Volume	
Water Height Multipliers (gal)		1-inch = 0.041	2-inch = 0.162		4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method:					Pump Intake Depth:					Comments	
Sampling Method:					Tubing Type:						
Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (L/min)	pH	Temp (°C)	Cond (µS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/-0.1	+/-3%	+/-3%	+/- 10%	+/-10mV	+/-10%	<-- Stabilization Criteria
1306					7.00	19.82	1,110	1.53	-116.2		CI, brown
1310					6.90	19.41	1,096	1.40	-113.9		CI, brown
1314					6.84	19.34	1,101	1.27	-111.7		SC, tan
1318		3 L		0.25	6.82	19.33	1,098	1.26	-110.0		SC, tan
1322					6.80	19.64	1,099	1.24	-108.0		SC, tan
1326		4 L			6.82	19.71	1,099	1.23	-106.2		SC, tan
1330	→	sample					(cw) units corrected				

Clarity: VC = very cloudy, CI = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID:	T3-GW-34	Sampling Flow Rate	0.25		Analytical Laboratory:	Apex Labs	
Sample Time:	1330	Final Depth to Water:	—		Did Well Dewater?	NO	
# Containers/Type	Preservative	Analysis/Method	Field Filtered		Filter Size	MS/MSD	Duplicate ID
4 x 1-L	Unpres.	8081B / PCB Congeners	yes	(no)			
2 x 125 ml	Unpres.	PAHs	yes	(no)			
1 x 250 ml	Unpres.	Nitrate / Sulfate	yes	(no)			
2 x 250 ml	HNO3	Total & Diss. Metals	(yes)	no	Diss. Metals 700 cm^2		
1 x 250 ml	H2SO4	TOC	yes	(no)			

COMMENTS: Fe Iron : 7 mg/L

WELL MONITORING DATA SHEET

APEX	Apex Companies, LLC 15618 SW 72nd Ave. Portland, OR 97224	Well I.D.	T3-GW-46	Job Number:	1056-17
		Client:	Port of Portland and Metro	Date:	2/27/25
		Project:	Willamette Cove Upland Facility	Sampler:	D. Kolpacki
		Weather:	60°F, sunny	Time In/Out:	1500/1635

WELL DATA

Well Depth:		Well Diameter:		Water Height	
Depth to Water:		Screened Interval:		x Multiplier	
Water Column Length:		Depth to Free Product:		x Casing Volumes	
Purge Volume:	5L	Free Product Thickness:		= Purge Volume	
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method:		Pump Intake Depth:		Comments	
Sampling Method:		Tubing Type:			

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (L/min)	pH	Temp (°C)	Cond (µS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/-0.1	+/-3%	+/-3%	+/- 10%	+/-10mV	+/-10%	<-- Stabilization Criteria
1618					5.86	20.27	~~650~~	1.18	-19.5		Cl, brown
1621					5.84	20.18	~~644~~	1.12	-19.3		Cl, brown
1624					5.85	19.87	~~642~~	1.11	-19.8		Cl, brown
1627		3L		0.3	5.80	19.73	~~644~~	1.11	-17.3		SC, tan
							(uS) units corrected				

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID:	T3-GW-46	Sampling Flow Rate		Analytical Laboratory:	Apex Labs		
Sample Time:	1630	Final Depth to Water:		Did Well Dewater?	NO		
# Containers/Type	Preservative	Analysis/Method	Field Filtered		Filter Size	MS/MSD	Duplicate ID
4 x 1-L	Unpres.	8081B / PCB Congeners	yes	(no)			
2 x 125 ml	Unpres.	PAHs	yes	(no)			
1 x 250 ml	Unpres.	Nitrate / Sulfate	yes	(no)			
2 x 250 ml	HNO3	Total & Diss. Metals	(yes)	no	Diss. Metals 700 cm^2		
1 x 250 ml	H2SO4	TOC	yes	(no)			

COMMENTS: Ferrous Iron : 4.5 mg/L

WELL MONITORING DATA SHEET

APEX	Apex Companies, LLC 15618 SW 72nd Ave. Portland, OR 97224	Well I.D.	T3-GW-58	Job Number:	1056-17
		Client:	Port of Portland and Metro	Date:	2/28/25
		Project:	Willamette Cove Upland Facility	Sampler:	D. Kolpacki
		Weather:	50's, foggy	Time In/Out:	900

WELL DATA

Well Depth:		Well Diameter:		Water Height	
Depth to Water:		Screened Interval:		x Multiplier	
Water Column Length:		Depth to Free Product:		x Casing Volumes	
Purge Volume:	4L	Free Product Thickness:		= Purge Volume	
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method:					Pump Intake Depth:						Comments	
Sampling Method:					Tubing Type:							
Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (L/min)	pH	Temp (°C)	Cond (µS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks	
					+/-0.1	+/-3%	+/-3%	+/- 10%	+/-10mV	+/-10%	<= Stabilization Criteria	
1210					6.72	17.33	~~X~~171	5.45	224.0		Cl, brown	
1213					6.65	17.39	~~X~~170	4.51	216.7		Cl, brown	
1216					6.61	16.49	~~X~~171	4.25	200.1		Cl, brown	
1219					6.56	15.99	~~X~~171	4.45	165.3		Cl, brown	
1222					6.53	15.99	~~X~~169	4.32	150.1		Cl, brown	
1225					6.48	16.10	~~X~~169	4.45	140.7		Cl, brown	
1228		4L			6.46	16.24	~~X~~170	4.54	144.8		Cl, brown	
							(cw) units corrected					

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID:	T3-GW-78	Sampling Flow Rate		Analytical Laboratory:	Apex Labs		
Sample Time:	1230	Final Depth to Water:		Did Well Dewater?	No		
# Containers/Type	Preservative	Analysis/Method	Field Filtered		Filter Size	MS/MSD	Duplicate ID
4 x 1-L	Unpres.	8081B / PCB Congeners	yes	(no)			
2 x 125 ml	Unpres.	PAHs	yes	(no)			
1 x 250 ml	Unpres.	Nitrate / Sulfate	yes	(no)			
2 x 250 ml	HNO3	Total & Diss. Metals	(yes)	(no)	Diss. Metals 700 cm^2		
1 x 250 ml	H2SO4	TOC	yes	(no)			

COMMENTS: Ferrous Fe : 0.5

WELL MONITORING DATA SHEET

APEX	Apex Companies, LLC 15618 SW 72nd Ave. Portland, OR 97224	Well I.D.	T3-GW-70	Job Number:	1056-17
		Client:	POP Metro	Date:	3/3/25
		Project:	WC SCE	Sampler:	CW/JM
		Weather:	50° Cloudy	Time In/Out:	1120/1212

WELL DATA

~~Well~~ Boring Depth:	70' vertical dist.	Well Diameter:	NA	Water Height	
Depth to Water:	39.50' Along boring	Screened Interval:	70 - 71.5 bgs	x Multiplier	
~~Water Column~~ Length:	32.00 bgs	Depth to Free Product:	—	x Casing Volumes	
Purge Volume:		Free Product Thickness:	—	= Purge Volume	
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method:		Pump Intake Depth:		Comments	
Sampling Method:		Tubing Type:			

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (L/min)	pH	Temp (°C)	Cond (µS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/-0.1	+/-3%	+/-3%	+/- 10%	+/-10mV	+/-10%	<-- Stabilization Criteria
1149	1L	1L	-	0.35	7.21	15.81	~~0~~310	6.75	14.7	-	VC
1152	1.05	11.05	-	0.35	7.20	15.62	~~0~~308	6.66	2.6	-	VC
1155	1.05	12.10	-	0.35	7.14	15.26	~~0~~305	6.89	7.6	-	VC
1158	1.05	13.15	-	0.35	7.09	15.11	~~0~~304	7.01	14.4	-	VC
1201	1.05	14.20	-	0.35	7.05	15.01	~~0~~303 (CW) units corrected	7.07	17.4	-	VC

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID:	T3-GW-70	Sampling Flow Rate	0.35	Analytical Laboratory:	Apex
Sample Time:	1211	Final Depth to Water:	—	Did Well Dewater?	NO

# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
4 x 1L	NP	8081B/17B	yes (no)			
2 x 125ml	NP	PAH	yes (no)			
1 x 250ml	NP	Nitrate/Sulfate	yes (no)			
2 x 250ml	HNO_3	Total & diss. metals	(yes) ~~no~~	0.45		
1 x 250ml	H_2SO_4	TOC	~~yes~~ (no)			
			yes no			

COMMENTS

70' ~~Drifting~~ vertical distance = 84' DD (drilling distance) Fe Iron = 0

WELL MONITORING DATA SHEET

APEX	Apex Companies, LLC 15618 SW 72nd Ave. Portland, OR 97224	Well I.D.	T5-GW-42 35	Job Number:	10516-17
		Client:	POP metro	Date:	3/4/25
		Project:	WL SCE	Sampler:	CW
		Weather:	47° rain	Time In/Out:	1210

WELL DATA

~~Well~~ Boring Depth:	42' drilling distance	Well Diameter:		Water Height	
Depth to Water:	36.33' drilling	Screened Interval:		x Multiplier	
Water Column Length:	~30' bgs	Depth to Free Product:		x Casing Volumes	
Purge Volume:		Free Product Thickness:		= Purge Volume	
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method:	low flow	Pump Intake Depth:	42' or 34.5' bgs	Comments	
Sampling Method:	low flow	Tubing Type:	PTFE		

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (L/min)	pH	Temp (°C)	Cond (µS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/-0.1	+/-3%	+/-3%	+/- 10%	+/-10mV	+/-10%	<-- Stabilization Criteria
1215	10L	10L	--	0.30	7.41	13.10	~~X~~561	1.50	+130.8	—	VC Brown
1218	0.90	10.90	-	0.30	7.32	13.71	~~X~~552	1.53	+120.7	-	vc brown
1221	~~0.05~~	~~11.95~~	-	0.35	7.25	13.73	~~X~~549	1.51	+99.3	-	vc brown
1224	1.15	13.00	-	0.35	7.23	13.43	~~X~~549	1.51	-94.3	-	vc, brown
1227	1.15	14.15	-	0.35	7.24	13.47	~~X~~552	1.55	-93.7	-	vc, brown
							(CW) units corrected				

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID:	T5-GW-42 35	Sampling Flow Rate	0.35	Analytical Laboratory:	Apex
Sample Time:	1244	Final Depth to Water:	—	Did Well Dewater?	NO

# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
4 x 1L Ambers	NP	8081B PCB	yes (no)			
2 x 125ml Ambers	NP	PAH	yes (no)			
1 x 250 ml poly	NP	Nitrate/Sulfate	yes (no)			
1 x 250 ml poly	H_2SO_4	TOC	yes (no)			
1 x 250 ml poly	HNO_3	total & dissolved metals	yes (no)			
1 x 250 ml poly	HNO_3	total & diss metals	(yes) no	0.45		

COMMENTS

No water, so prepack was inserted as soil was too soft.
- well keeps losing pressure in pump FE = 0.5

→ 42' drilling distance = 35' vertical distance

WELL MONITORING DATA SHEET

APEX	Apex Companies, LLC 15618 SW 72nd Ave. Portland, OR 97224	Well I.D.	T5-GW-56 46	Job Number:	10510-17
		Client:	POP Metro	Date:	3/4/25
		Project:	WC SCE	Sampler:	CW
		Weather:	51° mostly sunny	Time In/Out:	1500

WELL DATA

Well Depth: *	56' dd or 46' bgs	Well Diameter:		Water Height	
Depth to Water:	37.7' drilling dist	Screened Interval:		x Multiplier	
Water Column Length:	or 31' bgs	Depth to Free Product:		x Casing Volumes	
Purge Volume:		Free Product Thickness:		= Purge Volume	
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method:		Pump Intake Depth:		Comments	
Sampling Method:		Tubing Type:			

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (L/min)	pH	Temp (°C)	Cond (µS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/-0.1	+/-3%	+/-3%	+/- 10%	+/-10mV	+/-10%	<-- Stabilization Criteria
1522	15	15	-	0.30	6.33	16.21	~~731~~	1.38	-86.7	-	VC, brown
1525	0.90	15.90	-	0.30	6.31	16.13	~~778~~	1.31	-90.9	-	VC, brown
1528	0.90	16.80	-	0.30	6.31	16.06	~~772~~	1.47	-79.5	-	VC, brown
1531	0.90	17.70	-	0.30	6.30	15.73	~~767~~	1.37	-81.6	-	VC, brown
1534	0.90	18.60	-	0.30	6.27	15.60	~~765~~ @ units Corrected	1.32	-83.0	-	VC, brown

Clarity: VC = very cloudy, CI = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID:	T5-GW-~~56~~ 46	Sampling Flow Rate	0.30	Analytical Laboratory:	Apex		
Sample Time:	1544	Final Depth to Water:	—	Did Well Dewater?	NO		
# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID	
4 x 1L Ambers	NP	SOM1B PCB	yes (no)				
2 x 125ml ambers	NP	PAH	yes (no)				
1 250ml poly	NP	Nitrate/Sulfate	yes (no)				
1 x 250ml poly	H_2SO_4	TOC	yes (no)				
1 x 250 ml poly	HNO_3	total & diss metals	yes (no)				
1 x 250ml poly	HNO_3	" " "	(yes) no	0.45			

COMMENTS

$Fe^{2+} = 7$

*DD = Drilling distance, bgs = vertical distance

WELL MONITORING DATA SHEET

APEX	Apex Companies, LLC 15618 SW 72nd Ave. Portland, OR 97224	Well I.D.	~~MW~~ T5-GW-58	Job Number:	1056-17
		Client:	POP Metro	Date:	3/5/25
		Project:	WC SCE	Sampler:	CW
		Weather:	47° mostly cloudy	Time In/Out:	10:30

WELL DATA

~~Well~~ Depth:	70' DD / 58' bgs	Well Diameter:		Water Height	
Depth to Water:	63' DD / 52' bgs	Screened Interval:		x Multiplier	
Water Column Length:		Depth to Free Product:		x Casing Volumes	
Purge Volume:		Free Product Thickness:		= Purge Volume	
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method:	Low flow	Pump Intake Depth:	58' bgs	Comments	
Sampling Method:	Low flow	Tubing Type:	PTFE		

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (L/min)	pH	Temp (°C)	Cond (µS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/-0.1	+/-3%	+/-3%	+/- 10%	+/-10mV	+/-10%	<-- Stabilization Criteria
1045	15.00	15.00	-	0.35	7.35	13.93	~~0~~349	2.13	-96.8	-	VC, brown
1048	1.05	16.05	-	0.35	7.31	14.16	~~0~~363	3.33	-92.6	-	VC, brown
1051	1.05	17.10	-	0.35	7.29	14.05	~~0~~367	4.19	-82.4	-	C
1054	1.05	18.15	-	0.35	7.26	14.18	~~0~~364	4.99	-77.6	-	C
1057	1.05	19.20	-	0.35	7.21	14.34	~~0~~363	4.42	-83.9	-	C
1100	1.05	20.25	-	0.35	7.19	14.29	~~0~~364	3.27	-98.6	-	C
1103	1.05	21.30	-	0.35	7.16	14.19	~~0~~366	2.82	-105.7	-	C
1106	1.05	22.35	-	0.35	7.14	14.03	~~0~~366	2.62	-108.2	-	C
1109	1.05	23.40	-	0.35	7.13	14.08	~~0~~367	2.59	-111.7	-	C
							(CW) units corrected				

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID:	T5-GW-58	Sampling Flow Rate	0.40	Analytical Laboratory:	Apex		
Sample Time:	1118	Final Depth to Water:	-	Did Well Dewater?	NO		
# Containers/Type	Preservative	Analysis/Method	Field Filtered		Filter Size	MS/MSD	Duplicate ID
4x1L Ambers	NP	8081B PCB	yes (no)				
2x125ml Ambers	NP	PAH	yes (no)				
1x 250ml poly	NP	Nitrate/Sulfate	yes (no)				
1x 250ml poly	~~H_2SO_4~~, HNO_3	total & d.s. metals	yes (no)				
1x 250ml poly	HNO_3	" " "	(yes)	no	0.45		
1x 250ml poly	~~HCl~~ H_2SO_4	TOC	yes (no)				

COMMENTS

Numoon Pump $Fe^{2+} = 2.0$

DD = drilling distance, bgs = vertical distance

WELL MONITORING DATA SHEET

APEX	Apex Companies, LLC 15618 SW 72nd Ave. Portland, OR 97224	Well I.D.	T5-GW-69	Job Number:	1056-17
		Client:	POP Metro	Date:	3/5/25
		Project:	WC SCE	Sampler:	CW
		Weather:		Time In/Out:	

WELL DATA

~~Well~~ Boring Depth:	84' DD / 69' bgs	Well Diameter:		Water Height	
Depth to Water:	71.50D / 58.5 bgs	Screened Interval:	~~59'-69'~~ (2 ft)	x Multiplier	
Water Column Length:		Depth to Free Product:		x Casing Volumes	
Purge Volume:		Free Product Thickness:	-	= Purge Volume	
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method:	Low flow	Pump Intake Depth:	69' bgs	Comments	
Sampling Method:	Low flow	Tubing Type:	PTFE		

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (L/min)	pH	Temp (°C)	Cond (µS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/-0.1	+/-3%	+/-3%	+/- 10%	+/-10mV	+/-10%	<-- Stabilization Criteria
1300	15.00	15.00	-	0.45	7.82	19.55	0.144	1.37	-239.9	-	VC, tan
1303	1.35	16.35	-	0.45	7.72	19.47	0.159	1.27	-258.9	-	VC, tan
1306	1.35	17.70	-	0.45	7.64	19.30	0.209	1.10	-316.6	-	VC, tan
1309	1.35	19.05	-	0.45	7.49	19.06	0.234	1.11	-338.1	-	VC, tan
1312	1.35	20.40	-	0.45	7.45	19.29	0.264	1.17	-352.6	-	VC, tan
1315	1.35	21.75	-	0.45	7.39	19.32	0.280	1.24	-342.9	-	VC, tan
1318	1.35	23.10	-	0.45	7.26	19.49	0.287	1.90	-376.1	-	VC, tan
1321	1.35	24.45	-	0.45	7.29	19.44	0.284	1.27	-359.1	-	VC, tan
1324	1.35	25.80	-	0.45	7.28	19.11	0.286	2.54	-89.0	-	VC, tan
1327	1.35	27.15	-	0.45	7.08	18.82	0.284	4.39	-39.7	-	C

Clarity: VC = very cloudy, CI = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID:	T5-GW-69	Sampling Flow Rate	0.45	Analytical Laboratory:	Apex		
Sample Time:	1358	Final Depth to Water:	-	Did Well Dewater?	NO		
# Containers/Type	Preservative	Analysis/Method	Field Filtered		Filter Size	MS/MSD	Duplicate ID
4 x 1L amber	NP	8081B PCB	yes (no)				
2 x 125ml amber	NP	PAH	yes (no)				
1 x 250ml poly	NP	Nitrate/Sulfate	yes (no)				
1 x 250ml poly	H_2SO_4	TOC	yes (no)				
1 x 250ml poly	HNO_3	total & dis metals	yes (no)				
1 x 250ml poly	HNO_3	" " "	(yes)	no	0.45		

COMMENTS

Monsoon Pump $Fe^{2+} = 0.5$

DD = drilling distance, bgs = vertical distance

Pg 1

WELL MONITORING DATA SHEET

APEX	Apex Companies, LLC 15618 SW 72nd Ave. Portland, OR 97224	Well I.D.	T5-GW-69	Job Number:	
		Client:		Date:	
		Project:		Sampler:	
		Weather:		Time In/Out:	

WELL DATA

Well Depth:		Well Diameter:			Water Height		
Depth to Water:		Screened Interval:			x Multiplier		
Water Column Length:		Depth to Free Product:			x Casing Volumes		
Purge Volume:		Free Product Thickness:			= Purge Volume		
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653		1 gallon = 3.785 liters		

PURGING DATA

Purge Method:				Pump Intake Depth:						Comments	
Sampling Method:				Tubing Type:							
Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (L/min)	pH	Temp (°C)	Cond (µS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/-0.1	+/-3%	+/-3%	+/- 10%	+/-10mV	+/-10%	<-- Stabilization Criteria
1330	1.35	28.50	-	0.45	7.05	19.01	0.285	4.42	-44.9	-	C
1333	1.35	29.85	-	0.45	6.99	18.77	0.286	4.70	-38.5	-	C
1336	1.35	31.20	-	0.45	6.97	18.72	0.287	4.85	-35.1	-	C
							(cw) units	corrected			

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID:	T5-GW-69	Sampling Flow Rate		Analytical Laboratory:	Apex	
Sample Time:	1358	Final Depth to Water:		Did Well Dewater?	NO	
# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
			yes no			
See page 1 of 2			yes no			
			yes no			
			yes no			
			yes no			
			yes no			

COMMENTS

Pg 2 of 2

Sample Descriptions

Classification of soils in this report is based on visual field and laboratory observations which include density/consistency, moisture condition, and grain size, and should not be construed to imply field nor laboratory testing unless presented herein. Visual-manual classification methods of ASTM D 2488 were used as an identification guide.

Soil descriptions consist of the following:
MAJOR CONSTITUENT with additional remarks; color, moisture, minor constituents, density/consistency.

Density/Consistency

Soil density/consistency in borings is related primarily to the Standard Penetration Resistance. Soil density/consistency in test pits and push probe explorations is estimated based on visual observation and is presented parenthetically on test pit and push probe exploration logs.

SAND and GRAVEL Density	Standard Penetration Resistance in Blows/Foot
Very loose	0 - 4
Loose	4 - 10
Medium dense	10 - 30
Dense	30 - 50
Very dense	>50

SILT or CLAY Density	Standard Penetration Resistance in Blows/Foot	Approximate Shear Strength in TSF
Very soft	0 - 2	<0.125
Soft	2 - 4	0.125 - 0.25
Medium stiff	4 - 8	0.25 - 0.5
Stiff	8 - 15	0.5 - 1.0
Very Stiff	15 - 30	1.0 - 2.0
Hard	>30	>2.0

Moisture

Dry	Little perceptible moisture.
Sl. Moist	Some perceptible moisture, probably below optimum.
Moist	Probably near optimum moisture content.
Wet	Much perceptible moisture, probably above optimum.

Minor Constituents

	Estimated Percentage
Not identified in description	0 - 5
Slightly (clayey, silty, etc.)	5 - 12
Clayey, silty, sandy, gravelly	12 - 30
Very (clayey, silty, etc.)	30 - 50

Sampling Symbols

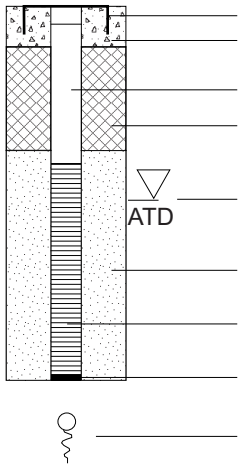
BORING AND PUSH-PROBE SYMBOLS

- Recovery
- No Recovery
- Temporarily Screened Interval
- PID — Photoionization Detector Reading
- W — Water Sample
- Sample Submitted for Chemical Analysis
- NS — No Sheen
- SS — Slight Sheen
- MS — Moderate Sheen
- HS — Heavy Sheen
- BF — Biogenic Film

TEST PIT SOIL SAMPLES

- Grab (Jar)
- Bag
- Shelby Tube

Groundwater Observations and Monitoring Well Construction



- Flush Mounted Monument
- Concrete Surface Seal
- Well Casing
- Bentonite Seal
- Groundwater Level on Date or (ATD) At Time of Drilling
- Sand Pack
- Well Screen
- End Cap
- Groundwater Seepage (Test Pits)

10/21/2025

Key to Exploration Logs

2025 Groundwater Source Control Evaluation Data Report
Willamette Cove Upland Facility
Portland, Oregon

APEX Apex Companies, LLC 15618 SW 72nd Avenue Tigard, Oregon 97224	Project Number: 320001056-17	Drawn: JP	Approved: HFC	Figure
	October 2025			**Key**

I:\Client\Port of Portland\00-PH905\05 WC\01 Repts and Wk Plans\19 GW SCE_SCAE\2025 WC GW SCE\Logs

Apex Companies, LLC
15618 SW 72nd Avenue
Tigard, Oregon 97224

2025 Groundwater Source Control Evaluation Data Report
Willamette Cove Upland Facility
Portland, Oregon

Boring Number: **T1**

Project Number: **320001056-17**
Logged By: C. Weer
Date: March 6, 2025
Site Conditions: --
Drilling Contractor: AEC
Drilling Equipment: Terra Sonic
Sampler Type: --
Depth to Water (ATD): 37'
Surface Elevation: 51' ± 98'

Boring Details and Notes:

Vertical Depth in Feet	Distance Along Borehole (35°)	Core Interval/Recovery	Laboratory Sample ID	PID	Sheen	Lithologic Description (35° Angle)
						See Maul Foster & Alongi log for lithology of 0 to 37 feet (Vertical Depth).
5	5					
	10					
10	15					
	20					
15	25					
	30					
20	35					
	40		T1-GW-34			GRAVEL with sand; gray, dry, cobbles up to 4", wood chips. Becomes saturated.
25	45					SAND; gray, saturated, with wood chips.
30						
35						

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2025 Groundwater Source Control Evaluation Data Report
Willamette Cove Upland Facility
Portland, Oregon

Boring Number: T1

Project Number: **320001056-17**
Logged By: C. Weer
Date: March 6, 2025
Site Conditions: --
Drilling Contractor: AEC
Drilling Equipment: Terra Sonic
Sampler Type: --
Depth to Water (ATD): 37'
Surface Elevation: 51' ± 98'

Boring Details and Notes:

Vertical Depth in Feet	Distance Along Borehole (35°)	Core Interval/Recovery	Laboratory Sample ID	PID	Sheen	Lithologic Description (35° Angle)
	50					SAND with gravel; gray, saturated, with some cobbles.
						SAND; gray, saturated.
45	55		T1-GW-46			SAND; gray, with cobbles up to 3".
						Fine SAND; gray and brown, saturated.
50	60					Fine SAND; brown and tan, saturated.
55	65					
	70		T1-GW-58			GRAVEL with sand; brown, saturated.
60						Fine SAND; brown, saturated.
	75					GRAVEL with trace sand.
						SAND with gravel; brown.
65	80					
			T1-GW-70			SAND with gravel; brown, saturated.
70	85					SAND and GRAVEL; gray, saturated.
						Bottom (Distance Along Borehole) 86.0'
75	90					
	95					

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2025 Groundwater Source Control Evaluation Data Report
Willamette Cove Upland Facility
Portland, Oregon

Boring Number: **T3**

Project Number: **320001056-17**
Logged By: D. Kolpacki
Date: February 27, 2025
Site Conditions: --
Drilling Contractor: AEC
Drilling Equipment: Terra Sonic
Sampler Type: 5'
Depth to Water (ATD): --
Surface Elevation: Not Measured

Boring Details and Notes:

Vertical Depth in Feet	Distance Along Borehole (35°)	Core Interval/Recovery	Laboratory Sample ID	PID	Sheen	Lithologic Description (35° Angle)
						See Maul Foster & Alongi log for lithology of 0 to 45 feet (Vertical Depth).
5	5					
	10					
10	15					
	20					
15	25					
	30					
20	35					
	40		T3-GW-34			
25	45					Concrete fragments, FILL.
						SILT with gravel; gray, saturated, FILL
30						
35						

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2025 Groundwater Source Control Evaluation Data Report
Willamette Cove Upland Facility
Portland, Oregon

Boring Number: **T3**

Project Number: **320001056-17**
Logged By: D. Kolpacki
Date: February 27-28, 2025
Site Conditions: --
Drilling Contractor: AEC
Drilling Equipment: Terra Sonic
Sampler Type: 5'
Depth to Water (ATD): --
Surface Elevation: Not Measured

Boring Details and Notes:

Vertical Depth in Feet	Distance Along Borehole (35°)	Core Interval/Recovery	Laboratory Sample ID	PID	Sheen	Lithologic Description (35° Angle)
45	50					Concrete fragments, FILL.
	55		T3-GW-46			SILT with gravel and wood fragments; gray, saturated, FILL Concrete fragments, FILL.
						SILT with gravel and wood fragments; gray, saturated, FILL
50	60					GRAVEL with silt; gray, wet, well-graded, FILL. Wood fragments; brown, saturated.
55	65					SILT with clay; gray, saturated, medium plasticity, some increased sand layers.
						SILT with clay; brown, saturated, high plasticity.
60	70		T3-GW-58			
65	75					
70	80					
75	85		T3-GW-70			Bottom (Distance Along Borehole) 86.0'
	90					
	95					

Apex Companies, LLC
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Tigard, Oregon 97224

2025 Groundwater Source Control Evaluation Data Report
Willamette Cove Upland Facility
Portland, Oregon

Boring Number: **T5**

Project Number: **320001056-17**
Logged By: C. Weer
Date: March 4-5, 2025
Site Conditions: --
Drilling Contractor: AEC
Drilling Equipment: Terra Sonic
Sampler Type: --
Depth to Water (ATD): --
Surface Elevation: Not Measured

Boring Details and Notes:

Vertical Depth in Feet	Distance Along Borehole (35°)	Core Interval/Recovery	Laboratory Sample ID	PID	Sheen	Lithologic Description (35° Angle)
						See Maul Foster & Alongi log for lithology of 0 to 42 feet (Vertical Depth).
25	30					SAND with gravel; gray and brown, trace fines. Black staining.
						SAND with silt; brown.
30	35					SAND with gravel; black and gray, trace silt.
						SAND; brown, saturated.
35	40		T5-GW-35			SAND with gravel; gray and black, saturated.
	45					SAND with silt; black, saturated.

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Tigard, Oregon 97224

2025 Groundwater Source Control Evaluation Data Report
Willamette Cove Upland Facility
Portland, Oregon

Boring Number: **T5**

Project Number: **320001056-17**
Logged By: C. Weer
Date: March 4-5, 2025
Site Conditions: --
Drilling Contractor: AEC
Drilling Equipment: Terra Sonic
Sampler Type: --
Depth to Water (ATD): --
Surface Elevation: Not Measured

Boring Details and Notes:

Vertical Depth in Feet	Distance Along Borehole (35°)	Core Interval/Recovery	Laboratory Sample ID	PID	Sheen	Lithologic Description (35° Angle)
	50					Concrete, dry.
45	55		T5-GW-46			SAND with rounded gravel; gray and black, some cobbles.
						Wood and SAND; brown and black.
						SAND with SILT; black, saturated.
	60					SAND; gray and black, with wood chips in layers throughout.
50						Wood and SAND.
						SAND; gray and black.
	65					Wood and SAND.
55						SAND; gray and black.
						Fine SAND; tan and gray, saturated.
	70		T5-GW-58			Medium-grained SAND; black and gray, saturated.
60						
	75					SAND with gravel; gray and tan, saturated.
65						
	80					
						GRAVEL with sand; gray and tan.
70	85		T5-GW-71			
						Bottom (Distance Along Borehole) 87.0'
	90					
75						
	95					

SOIL BORING: T1-BOT

Project Number: M0232.34.008
Project Name: Willamette Cove
Client Name: WC Group
Project Address: Portland, Oregon
Drilling Date: 02/25/2025

Drilling Company: AEC
Equipment: Sonic
Method: Continuous Core (4-inch)
Logged By: M. Whitson
Depth: 37'
Boring Diameter: 6"

Coordinates: 706588.07, 7624844.5
Coords Sys: N/E
Surface Elevation: 34.5'

Driller: -

Depth (feet)	Water Levels	Soil Description and Remarks	Graphic Log	Samples: % Recovery	Samples: PID (ppm)
1		0.0 foot to 6.5 feet: SILT (ML); brown; 100% fines, low plasticity; trace sand, very fine; trace clay; soft to medium stiff; trace rootlets at the surface; moist.		60	
2					0.1
3					
4					0.1
5		@ 5.0 feet: Becomes medium stiff to stiff.		98	
6					
7		6.5 feet to 8.5 feet: CONCRETE; intact.			0.1
8					
9		8.5 feet to 14.0 feet: SILT (ML); dark brown to very dark brown; 100% fines, low plasticity; trace sand, very fine; trace clay; soft to medium stiff; moist.			0.1
10		Medium plasticity; @ 10.0 feet: Clay increases to 15-20%.		86	
11					0.1
12					
13					
14					0.1
		14.0 feet to 14.5 feet: CONCRETE; intact.			
15		14.5 feet to 15.0 feet: SILT (ML); 100% fines; Same as above 8.5 to 14.0 feet.			
16		15.0 feet to 18.5 feet: SILTY SAND (SM); black; 30% fines, low plasticity; 50% sand, very fine to coarse; 20% gravel, fine to coarse, angular; loose to medium dense; faint organic-like odor; wet.		100	
17					0.1
18					
19		18.5 feet to 21.0 feet: SANDY GRAVEL (GP); dark gray; trace fines, low plasticity; 40% sand, very fine to coarse; 60% gravel, fine to coarse, subrounded to rounded; loose to medium dense; faint organic or petroleum-like odor; damp.			
20		@ 19.5 feet: Large cobbles in core, 3 to 5 inches in diameter.		86	0.1
21					0.1
22		21.0 feet to 23.5 feet: CONCRETE; fractured and pulverized.			
23					0.1

SOIL BORING: T1-BOT

Project Number: M0232.34.008
Project Name: Willamette Cove
Client Name: WC Group
Project Address: Portland, Oregon
Drilling Date: 02/25/2025

Drilling Company: AEC
Equipment: Sonic
Method: Continuous Core (4-inch)
Logged By: M. Whitson
Depth: 37'
Boring Diameter: 6"

Coordinates: 706588.07, 7624844.5
Coords Sys: N/E
Surface Elevation: 34.5'

Driller: -

Depth (feet)	Water Levels	Soil Description and Remarks	Graphic Log	Samples: % Recovery	Samples: PID (ppm)
24		23.5 feet to 34.0 feet: GRAVELLY SILT WITH SAND (ML); very dark brown; 50% fines, low plasticity; 15% sand, very fine; 35% gravel, fine to very coarse, subangular to subrounded; medium stiff to stiff; damp.		86	
25		@ 24.0 feet: Becomes very fine to medium sand.		80	0.1
26		24.5 feet to 32.0 feet: Trace cobbles in core up to 2 to 4 inches in diameter; rusty nail in core @ 24.5 feet.			
27					
28					
29					0.1
30	▽	@ 30.0 feet: Becomes wet/saturated; soft to unconsolidated.		85	
31					0.2
32				96	
33		33.0 to 34.0 feet: Large pieces of wood and woody debris.			4.9
34		34.0 feet to 37.0 feet: SILTY SAND (SM); dark greenish gray; 35% fines, low plasticity; 65% sand, very fine to fine; wet.			
35					0.1
36					
37		End of Boring			0.1

Notes

1. Depths are relative to feet below ground surface. 2. bgs = below ground surface. 3. PID = photoionization detector. 4. ppm = part per million.
Drilled at 35 degrees.
Borehole backfilled with bentonite chips hydrated with potable water.

Groundwater Data

Graphic	Date	Time	Depth	Notes
▽			30'	Observed during drilling

SOIL BORING: T3-BOT

Project Number: M0232.34.008
Project Name: Willamette Cove
Client Name: WC Group
Project Address: Portland, Oregon
Drilling Date: 02/24/2025

Drilling Company: AEC
Equipment: Sonic
Method: Continuous Core (4-inch)
Logged By: M. Whitson
Depth: 45'
Boring Diameter: 6"

Coordinates: 706440.85, 7625106.66
Coords Sys: N/E
Surface Elevation: 42.3'

Driller: -

Depth (feet)	Water Levels	Soil Description and Remarks	Graphic Log	Samples: % Recovery	Samples: PID (ppm)
1		0.0 foot to 2.0 feet: SANDY SILT (ML); brown; 70% fines, low plasticity; 30% sand, very fine; medium stiff; roots/rootlets; moist.		54	0
2		2.0 feet to 4.0 feet: SAND (SP); brown; little to no fines; 100% sand, fine to medium grained sand; loose; damp.			
3					
4					0
5		4.0 feet to 4.2 feet: SILTY SAND (SM); 40% fines, low plasticity; 60% sand, very fine to fine grained; medium dense; roots; moist.			
6		4.2 feet to 10.0 feet: SAND (SP); brown; little to no fines; 100% sand, fine to medium grained sand; loose; damp.		76	
7					0
8					
9					
10					0
11		10.0 feet to 12.5 feet: SILTY SAND (SM); brown; 40% fines, low plasticity; 60% sand, very fine to fine; medium dense; damp to moist.		88	
12					0
13		12.5 feet to 27.0 feet: SANDY SILT (ML); brown; 60% fines, low plasticity; 40% sand, very fine; medium stiff to stiff; occasional gravel, medium to coarse, angular to subangular dry to damp.			
14					0
15		@ 15.0 feet: Becomes gray; cobbles present, 1 to 3 inches in diameter.		80	
16					0.2
17					
18		@ 17.5 feet: Becomes dark gray; stiff; wood fragments and roots.			0.2
19					
20				96	
21		@ 21.0 feet: Faint petroleum-like odor.			
22					0.2
23					
24		@ 24.0 feet: Wood and brick fragments.			

SOIL BORING: T3-BOT

Project Number: M0232.34.008
Project Name: Willamette Cove
Client Name: WC Group
Project Address: Portland, Oregon
Drilling Date: 02/24/2025

Drilling Company: AEC
Equipment: Sonic
Method: Continuous Core (4-inch)
Logged By: M. Whitson
Depth: 45'
Boring Diameter: 6"

Coordinates: 706440.85, 7625106.66
Coords Sys: N/E
Surface Elevation: 42.3'

Driller: -

Depth (feet)	Water Levels	Soil Description and Remarks	Graphic Log	Samples: % Recovery	Samples: PID (ppm)
26		12.5 feet to 27.0 feet: SANDY SILT (ML); brown; 60% fines, low plasticity; 40% sand, very fine; medium stiff to stiff; occasional gravel, medium to coarse, angular to subangular dry to damp.		78	0.2
27		@ 26.0 feet: Faint to moderate naphthalene-like odor.			
28		27.0 feet to 32.0 feet: GRAVELLY SAND WITH SILT (SM); very dark gray; 20% fines, low plasticity; 50% sand, very fine to medium; 30% gravel, fine to coarse, subangular to subrounded; medium dense; damp.			
29					9.9
30					
31				96	0.2
32					
33		32.0 feet to 35.0 feet: CLAYEY SILT WITH SAND (ML); greenish gray; 85% fines, medium plasticity; 15% sand, very fine; stiff to very stiff; faint naphthalene-like odor; damp.			
34					0.4
35					
36		35.0 feet to 45.0 feet: SANDY SILT WITH GRAVEL (ML); very dark gray; 55% fines, low plasticity; 35% sand, very fine to medium; 15% gravel, fine to coarse, subrounded; soft; wet.		78	
37					
38					0.4
39					
40					
41				86	
42					0.4
43	▽	@ 43.0 feet: Becomes saturated, unconsolidated; strong petroleum-like odor.			
44					0.2
45		End of Boring			

Notes

1. Depths are relative to feet below ground surface. 2. bgs = below ground surface. 3. PID = photoionization detector. 4. ppm = part per million.
Drilled at 35 degrees.
Borehole backfilled with bentonite chips hydrated with potable water.

Groundwater Data

Graphic	Date	Time	Depth	Notes
▽			43'	Observed during drilling

SOIL BORING: T5-BOT

Project Number: M0232.34.008
Project Name: Willamette Cove
Client Name: WC Group
Project Address: Portland, Oregon
Drilling Date: 02/24/2025

Drilling Company: AEC
Equipment: Sonic
Method: Continuous Core (4-inch)
Logged By: M. Whitson
Depth: 42'
Boring Diameter: 6"

Coordinates: 706288.09, 7625365.57
Coords Sys: N/E
Surface Elevation: 40.5'

Driller: -

Depth (feet)	Water Levels	Soil Description and Remarks	Graphic Log	Samples: % Recovery	Samples: PID (ppm)
1		0.0 foot to 4.5 feet: SANDY SILT (ML); brown; 70% fines, low plasticity; 30% sand; medium stiff; some clay; sand content increasing with depth; moist.			0
2					
3					0
4					
5		4.5 feet to 18.5 feet: SAND (SP); brown to dark brown; 5% fines, low plasticity; 95% sand, very fine to fine; medium dense; damp.			
6					
7		@ 7.0 feet: Becomes dense to very dense; fines increase to 10%.			0
8					
9		@ 9.0 feet: Becomes very fine to medium grained.			0
10					
11					0
12					
13		@ 13.0 feet: Becomes gray-brown; very fine to fine grained.			
14					0
15					
16					
17					0
18		@ 17.5 feet: Becomes reddish brown.			
19		18.5 feet to 23.5 feet: SILT (ML); dark brown; 60% fines, low plasticity; 40% sand, very fine to fine; stiff to very stiff; damp.			0
20					
21					
22					0
23		@ 22.5 feet: Sharp and rusted metal fragments; soil becomes dark mottled rust-red.			
24		23.5 feet to 24.0 feet: CONCRETE; intact.			
25		24.0 feet to 26.0 feet: SANDY SILT (ML); very dark gray to black; 60% fines, low plasticity; 40% sand, very fine to fine; stiff to very stiff; heavy petroleum-like odor; damp. @ 25.0 feet: Becomes gray; sand content decreases to approximately 30%, very fine; some clay.			2

SOIL BORING: T5-BOT

Project Number: M0232.34.008
Project Name: Willamette Cove
Client Name: WC Group
Project Address: Portland, Oregon
Drilling Date: 02/24/2025

Drilling Company: AEC
Equipment: Sonic
Method: Continuous Core (4-inch)
Logged By: M. Whitson
Depth: 42'
Boring Diameter: 6"

Coordinates: 706288.09, 7625365.57
Coords Sys: N/E
Surface Elevation: 40.5'

Driller: -

Depth (feet)	Water Levels	Soil Description and Remarks	Graphic Log	Samples: % Recovery	Samples: PID (ppm)
27		26.0 feet to 30.0 feet: SILT (ML); greenish gray; 95% fines, medium plasticity; 5% sand, very fine; stiff to very stiff; damp.			
28					0.1
29					
30	▽				0.1
31		30.0 feet to 42.0 feet: GRAVEL WITH SILT AND SAND (GP-GM); 10% fines, low plasticity; 30% sand, very fine to medium; 60% gravel, fine to very coarse, subangular; loose; faint petroleum-like odor; wet.			
32					
33					1.4
34					
35					
36					0.3
37					
38					0.2
39					
40					
41					
42		32.0 feet to 32.5 feet: large cobbles and wood fragments in core; moderate petroleum-like odor.			2.3
		End of Boring			

Notes

1. Depths are relative to feet below ground surface. 2. bgs = below ground surface. 3. PID = photoionization detector. 4. ppm = part per million.
Drilled at 35 degrees.
Borehole backfilled with bentonite chips hydrated with potable water.

Groundwater Data

Graphic	Date	Time	Depth	Notes
▽			30'	Observed during drilling

Appendix B

Laboratory Analytical Reports and Quality Assurance Review

1.0 Introduction

This appendix documents the results of a quality assurance/quality control (QA/QC) review of the analytical data for samples collected in February/March 2025 for the Willamette Cove Supplemental Groundwater Source Control Evaluation. Groundwater samples were analyzed by Apex Laboratories (Portland, Oregon), ALS (Kelso, Washington), and Ceres Analytical Laboratory, Inc. (El Dorado Hills, California). Copies of the analytical laboratory reports are included in this appendix, as shown below:

Report	Analytical Lab	Report Date	Sampling Event
A5C1099	Apex Laboratories	May 29, 2025	2025 Groundwater Sampling
A5C1123	Apex Laboratories	May 29, 2025	2025 Groundwater Sampling
A5B1776	Apex Laboratories	May 29, 2025	2025 Groundwater Sampling
A5B1800	Apex Laboratories	May 29, 2025	2025 Groundwater Sampling
A5C0942	Apex Laboratories	May 29, 2025	2025 Groundwater Sampling
A5C0993	Apex Laboratories	May 29, 2025	2025 Groundwater Sampling
A5C1035	Apex Laboratories	May 29, 2025	2025 Groundwater Sampling
A5C1257	Apex Laboratories	May 29, 2025	2025 Groundwater Sampling
19264	Ceres	March 25, 2025	2025 Groundwater Sampling
19262	Ceres	March 21, 2025	2025 Groundwater Sampling
19229	Ceres	March 21, 2025	2025 Groundwater Sampling
19230	Ceres	March 21, 2025	2025 Groundwater Sampling
19231	Ceres	March 21, 2025	2025 Groundwater Sampling
19234-Rev1	Ceres	March 28, 2025	2025 Groundwater Sampling
19247	Ceres	March 21, 2025	2025 Groundwater Sampling
19274	Ceres	March 25, 2025	2025 Groundwater Sampling
K2502728	ALS	March 14, 2025	2025 Groundwater Sampling
K2502722	ALS	March 31, 2025	2025 Groundwater Sampling
K2502372	ALS	March 14, 2025	2025 Groundwater Sampling
K2502384	ALS	March 14, 2025	2025 Groundwater Sampling
K2502365	ALS	March 14, 2025	2025 Groundwater Sampling
K2502368	ALS	April 4, 2025	2025 Groundwater Sampling

Report	Analytical Lab	Report Date	Sampling Event
K2502374	ALS	March 14, 2025	2025 Groundwater Sampling
K2502727	ALS	March 31, 2025	2025 Groundwater Sampling

2.0 Data Validation

The QA review included examination and validation of the laboratory data packages for the following:

- Analytical preparation and quantitation methods
- Analytical method holding times
- Sample handling
- Chain of custody handling
- Detection and reporting limits
- Method blank detections
- Laboratory control samples, ongoing precision and recovery samples, matrix spikes, and surrogates to assess laboratory accuracy
- Laboratory duplicates, laboratory control sample duplicates, and matrix spike duplicates to assess laboratory precision
- Field duplicates to assess sampling and laboratory precision

The QA/QC review did not include a review of raw data.

This QA/QC review documents the relationship between analytical findings and data quality objectives based on precision and accuracy. It also summarizes possible error or bias and the effect on data quality and usability.

The laboratory quality control (QC) samples provided in data packages were used to evaluate laboratory contamination or background interferences, sample preparation efficiency, instrumentation performance, and sample matrix interferences. The QC samples provided by the analytical laboratories include method blanks, laboratory control samples (LCS/LCSD), ongoing precision and recovery sample (OPR), matrix spikes (MS/MSD), and laboratory duplicates. Surrogates were also analyzed to assess sample preparation efficiency and matrix interferences.

2.1 Data Qualifiers

Any data that is found to have possible bias or error was qualified and flagged. The following are flags with definitions used in this QA/QC review and data tables.

J	Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified DL.
R-02	The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
R-03	Elevated Reporting Limits due to limited sample volume.
DCNT	Sample decanted due to the presence of sediment in water samples, or water in sediment or soil samples. (Note: Decanted aqueous sample bottles are not solvent rinsed.)
Q-03	Spike recovery and/or RPD is outside control limits due to the high concentration of analyte present in the sample.
Q-04	Spike recovery and/or RPD is outside control limits due to a non-homogeneous sample matrix.

3.0 Analytical Methods

All groundwater samples in the 2025 groundwater monitoring event were analyzed for the following:

- PAHs by EPA Method 8270E-SIM;
- DDT, DDD, and DDE by EPA Method 8081B;
- PCBs by EPA Method 1668C and
- Total and dissolved arsenic by EPA Method 6020B.

In addition, samples were analyzed for geochemical parameters of total and dissolved iron and manganese, nitrate (as nitrogen), sulfate, carbon dioxide (total organic carbon) and ferrous iron to evaluate the oxidation/reduction conditions. Laboratory analysis was performed by Apex Laboratories of Tigard, Oregon (Apex Lab, OR01039) or a laboratory subcontracted by Apex Lab. The SAP in Appendix A includes a detailed discussion of the analytical testing plan.

4.0 Data Quality Assurance Review

The general QA objectives for this project were to develop and implement procedures for obtaining, evaluating, and confirming the usability of data of a specified quality. To collect such information, analytical data must have an appropriate degree of accuracy and reproducibility, samples collected must be

representative of actual field conditions, and samples must be collected and analyzed using unbroken chain-of-custody procedures.

Reporting limits and analytical results were compared to cleanup and screening levels for each parameter in the matrix of concern. Precision, accuracy, completeness, and comparability parameters used to indicate data quality are defined below.

4.1 Holding Times and Sample Receipt

The holding time is the minimum amount of time the sample can be stored before analytes start to degrade and are not representative of initial sampling concentrations. Holding times are defined by analytical methods. All samples included in this data quality review were analyzed within the method recommended holding times.

Chain of custody documents were appropriately maintained. They were filled out with the correct sample ID, sampling date, sampling time and analyses requested. No discrepancies were found between sampling container labels and the chain of custody document. Samples were received by analytical laboratories on ice and below six degrees Celsius (6ºC). All containers were intact upon receipt by the laboratory and not broken.

4.2 Reporting Limits and Detection Limits

Reporting limits are the lowest concentration an instrument is capable of accurately quantifying an analyte. They are determined by the laboratory and are based on instrumentation capabilities, the matrix of field samples, sample preparation procedures and suggested reporting limits by the analytical method. In some cases, reporting limits exceeded the cleanup or screening levels. To account for this difference in some cases, the laboratories reported results to the lowest method detection limits. Method detection limits (MDL) are the lowest concentrations that the instrument can positively identify an analyte; however, concentrations reported between the MDL and reporting limit are estimated and are J-flagged as such. The reporting limit for pesticides in sample T1-GW-46 and benzo(k)fluoranthene in sample MW-1 were raised due to coeluting organic compounds (R-02 in MW-1) or limited sample volume (R-03 in T1-GW-46).

4.3 Method Blanks

A method - or laboratory - blank is a quality control sample prepared by the laboratory from an analyte-free matrix and analyzed in an analytical batch along with environmental and other QC samples. It is used to assess laboratory contamination or background interferences. No detections were found in any of the method blanks.

4.4 Accuracy

Accuracy compares the accepted reference concentration of an analyte to the concentration determined analytically. Accuracy is measured as a percent recovery. This recovery must be within a certain range - or

control limit - for the data in an analytical batch to be considered acceptable. The analytical laboratory provides quality control samples and surrogates to help determine the accuracy and acceptability of the data reported. These quality control samples and surrogates are discussed below.

4.4.1 Laboratory Control Samples

Laboratory control samples (LCS) and laboratory control duplicate samples (LCSD) were analyzed by the laboratory to assess the accuracy of the analytical methods. One set of LCS and LCSDs were analyzed per analytical batch. The LCS and LCSDs are prepared from an analyte-free matrix that is spiked with known levels of compounds of concern. The concentrations are measured and compared to the known spiked levels; expressed as a percent recovery. The LCS and LCSD percent recoveries were within acceptable control limits.

4.4.2 Matrix Spikes

A matrix spike QC sample is used to assess the performance of the analytical method by determining potential matrix interferences. Matrix spike (MS) and matrix spike duplicate (MSD) analyses are performed on one environmental sample per analytical batch. A matrix spike sample uses an environmental sample that is spiked with known concentrations of analytes of interest. The matrix spike is then prepared and analyzed with the same analytical procedures as environmental samples in the analytical batch. The resulting concentration of the matrix spike is then compared to the known - or true - values plus the non-spiked environmental sample concentration. This comparison is expressed as a percent recovery. The MS recoveries were within control limits with the exception of MS1 for a sample not associated with the project samples.

4.4.3 Surrogates

Surrogates are organic compounds that are similar in chemical composition to the analytes of interest but are not likely to be found in the environment. They are spiked at a known concentration into environmental and batch QC samples prior to sample preparation and analysis. Surrogate recoveries for environmental samples are used to evaluate matrix interference, sample preparation efficiency and analysis performance on a sample-specific basis. Surrogate recoveries were within control limits.

4.4.4 Calibration Verification

Calibration verification samples are analyzed at method-specified intervals to assess the performance and accuracy of the instrumentation. All associated calibration standards met the acceptance criteria.

4.5 Precision

Precision is measured by how close values of duplicate analyses are to each other. These duplicate analyses are prepared from separate aliquots of the same sample and are analyzed at the same (or similar) time.

Precision in the field ensures that samples taken are representative of field concentrations; this is demonstrated by field duplicates. Analytical precision is the ability of the laboratory to reproduce results that are similar to each other; this is measured through duplicate analysis of environmental and batch QC samples. Precision is estimated by the relative percent difference (RPD) between the original analysis and the duplicate analysis.

4.5.1 Laboratory Control Sample Duplicates

The analytical batch LCS concentration of an analyte is compared to the LCSD concentration of the same analyte. The RPD is calculated from these two concentrations, which must be below a certain percentage to be considered acceptable. No LCS/LCSD RPDs were outside control limits.

4.5.2 Matrix Spikes

Like the LCS/LCSD, the MS/MSD analyte concentrations are also compared to each other and expressed as an RPD. Analytical batch MS/MSD samples were within RPD control limits with the exception of MS1 for a source sample not associated with project samples.

4.5.3 Field Duplicate

A field duplicate is a second field sample collected from a selected sample location. Field duplicate samples serve as a check on laboratory precision, sampling quality, as well as potential variability of the sample matrix. The field duplicate is analyzed and compared to the original sample to assess precision. This comparison can be expressed by the RPD between the original and duplicate samples. A field duplicate was collected from well MW-1. Results that are greater than five times the reporting limit and had RPD exceedances greater than 30 percent are J-flagged as estimated values. None of the results exceeded 30 percent RPD.

4.5.4 Laboratory Duplicate

A laboratory duplicate is a second analysis of an environmental sample received by the laboratory, which serves as an internal check on laboratory quality as well as potential variability of the sample matrix. The laboratory duplicate is analyzed and compared to the primary sample analysis to assess the precision of the analytical method. This comparison can be expressed by the RPD between the original and duplicate samples.

RPD values were within control limits for each analysis.

4.6 Total and Dissolved Phase Comparison

Total and dissolved phase groundwater samples were collected for metals (arsenic, iron and manganese). Dissolved groundwater samples were filtered in the field with a 0.45 µm filter.

The dissolved metals results for well MW-3 and the field duplicate collected from MW-3 were greater than the total recoverable metals results by a significant margin indicating a field labeling error (dissolved label placed on total sample container and total label placed on dissolved container). The MW-3 metals results in the summary table are corrected for this. Precision of the total and dissolved results for MW-3 and MW-3 field duplicate had RPDs of less than 6%; therefore, the results are acceptable for use.

4.7 Calculation of Total Results

Concentrations that require summation for a total result include total carcinogenic PAHs (benzo(a)pyrene equivalence (BaP Eq), total PCBs and total DDX, DDD, DDE, DDT.

The calculation of BaP Eq included normalizing the carcinogenic PAHs (cPAHs) by multiplying by the BaP TEF. The detected results normalized by the BaP TEF were then summed. If one or more cPAHs were not detected, the detection limit for each not detected cPAH was multipled by the TEF, and one-half the highest weighted result was used to represent the contribution from not detected values in the sample. If all cPAHs were not detected, then the highest TEF-weighted detection limit was used and U-flagged as not detected.

Total PCBs were calculated by summing detected congeners and one-half the highest detection limit for the not detected congeners. If all PCB congeners were not detected, then the highest detection limit was used as the not detected value.

For totaling pesticides (DDx, DDT, DDE and DDD), the sum of the detections and one-half the highest not detected value were used. If all components were not detected, then the highest detection limit was used for the not detected value.

4.8 Other Data Qualifiers

Sample was decanted (DCNT) for pesticide and PAH analysis due to the presence of sediment in samples MW-1, MW-2, T1-GW-34, T1-GW-46, T1-GW-58 and T1-GW-70.

5.0 Conclusion

In conclusion, the QA objectives have been met and the data are of sufficient quality for use in this project.

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

ANALYTICAL REPORT

AMENDED REPORT

Thursday, May 29, 2025

Steve Misner
Apex Companies, LLC
15618 SW 72nd Ave
Tigard, OR 97224

RE: A5C1099 - Willamette Cove GW SCE - 1056-17

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 A5C1099, which was received by the laboratory on 3/6/2025 at 6:06:00PM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: DAuvil@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 4.7 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

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Darrell Auvil, Client Services Manager

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

ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1099 - 05 29 25 1602**

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
T1-GW-34	A5C1099-01	Water	03/06/25 13:50	03/06/25 18:06
MW-1	A5C1099-02	Water	03/06/25 13:00	03/06/25 18:06
MW-2	A5C1099-03	Water	03/06/25 14:15	03/06/25 18:06
T1-GW-46	A5C1099-04	Water	03/06/25 16:16	03/06/25 18:06

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ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1099 - 05 29 25 1602**

ANALYTICAL CASE NARRATIVE

A5C1099 **Apex Laboratories**

Amended Report Revision 2: This report supersedes all previous reports.

Reporting the Detection Limits (DL)-

The final report has been amended to report PAH data by EPA 8270E, to the detection limits (DL).

Darrell Auvil
Client Services Manager
5/29/2025

Amended Report Revision 1: This report supersedes all previous reports.

Reporting the Detection Limits (DL)-

The final report has been amended to report Chlorinated Pesticides data by EPA 8081B, to the detection limits (DL).

Darrell Auvil
Client Services Manager
5/9/2025

Apex Laboratories

Darrell Auvil, Client Services Manager

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ORELAP ID: **OR100062**

Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1099 - 05 29 25 1602**

ANALYTICAL SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
T1-GW-34 (A5C1099-01RE1)				**Matrix: Water**		**Batch: 25C0849**		**C-05, DCNT**
2,4'-DDD	ND	0.0206	0.0206	ug/L	1	03/24/25 15:22	EPA 8081B	
2,4'-DDE	ND	0.0103	0.0206	ug/L	1	03/24/25 15:22	EPA 8081B	
2,4'-DDT	ND	0.0206	0.0206	ug/L	1	03/24/25 15:22	EPA 8081B	
4,4'-DDD	ND	0.0206	0.0206	ug/L	1	03/24/25 15:22	EPA 8081B	
4,4'-DDE	ND	0.0103	0.0206	ug/L	1	03/24/25 15:22	EPA 8081B	
4,4'-DDT	ND	0.0206	0.0206	ug/L	1	03/24/25 15:22	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr)		*Recovery:*	*59 %*	*Limits: 25-140 %*	*1*	*03/24/25 15:22*	*EPA 8081B*	
Decachlorobiphenyl (Surr)			*52 %*	*30-135 %*	*1*	*03/24/25 15:22*	*EPA 8081B*	
MW-1 (A5C1099-02RE1)				**Matrix: Water**		**Batch: 25C0849**		**C-05, DCNT**
2,4'-DDD	ND	0.00980	0.0196	ug/L	1	03/24/25 15:39	EPA 8081B	
2,4'-DDE	ND	0.00980	0.0196	ug/L	1	03/24/25 15:39	EPA 8081B	
2,4'-DDT	ND	0.00980	0.0196	ug/L	1	03/24/25 15:39	EPA 8081B	
4,4'-DDD	ND	0.00980	0.0196	ug/L	1	03/24/25 15:39	EPA 8081B	
4,4'-DDE	ND	0.00980	0.0196	ug/L	1	03/24/25 15:39	EPA 8081B	
4,4'-DDT	ND	0.00980	0.0196	ug/L	1	03/24/25 15:39	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr)		*Recovery:*	*63 %*	*Limits: 25-140 %*	*1*	*03/24/25 15:39*	*EPA 8081B*	
Decachlorobiphenyl (Surr)			*74 %*	*30-135 %*	*1*	*03/24/25 15:39*	*EPA 8081B*	
MW-2 (A5C1099-03RE1)				**Matrix: Water**		**Batch: 25C0849**		**C-05**
2,4'-DDD	ND	0.0196	0.0196	ug/L	1	03/24/25 15:56	EPA 8081B	
2,4'-DDE	ND	0.0196	0.0196	ug/L	1	03/24/25 15:56	EPA 8081B	
2,4'-DDT	ND	0.00980	0.0196	ug/L	1	03/24/25 15:56	EPA 8081B	
4,4'-DDD	ND	0.0196	0.0196	ug/L	1	03/24/25 15:56	EPA 8081B	
4,4'-DDE	ND	0.00980	0.0196	ug/L	1	03/24/25 15:56	EPA 8081B	
4,4'-DDT	ND	0.0196	0.0196	ug/L	1	03/24/25 15:56	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr)		*Recovery:*	*72 %*	*Limits: 25-140 %*	*1*	*03/24/25 15:56*	*EPA 8081B*	
Decachlorobiphenyl (Surr)			*75 %*	*30-135 %*	*1*	*03/24/25 15:56*	*EPA 8081B*	
T1-GW-46 (A5C1099-04RE1)				**Matrix: Water**		**Batch: 25C0849**		**C-05, DCNT, R-03**
2,4'-DDD	ND	0.0137	0.0274	ug/L	1	03/24/25 16:14	EPA 8081B	
2,4'-DDE	ND	0.0137	0.0274	ug/L	1	03/24/25 16:14	EPA 8081B	
2,4'-DDT	ND	0.0137	0.0274	ug/L	1	03/24/25 16:14	EPA 8081B	
4,4'-DDD	ND	0.0137	0.0274	ug/L	1	03/24/25 16:14	EPA 8081B	

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Darrell Auvil, Client Services Manager

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1099 - 05 29 25 1602**

ANALYTICAL SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
T1-GW-46 (A5C1099-04RE1)				**Matrix: Water**			**Batch: 25C0849**	**C-05, DCNT, R-03**
4,4'-DDE	ND	0.0137	0.0274	ug/L	1	03/24/25 16:14	EPA 8081B	
4,4'-DDT	ND	0.0137	0.0274	ug/L	1	03/24/25 16:14	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr)		*Recovery:*	*58 %*	*Limits: 25-140 %*	*1*	*03/24/25 16:14*	*EPA 8081B*	
Decachlorobiphenyl (Surr)			*63 %*	*30-135 %*	*1*	*03/24/25 16:14*	*EPA 8081B*	

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ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: Willamette Cove GW SCE	
15618 SW 72nd Ave	Project Number: 1056-17	Report ID:
Tigard, OR 97224	Project Manager: Steve Misner	A5C1099 - 05 29 25 1602

ANALYTICAL SAMPLE RESULTS

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
T1-GW-34 (A5C1099-01RE1)				**Matrix: Water**		**Batch: 25C0329**		**DCNT**
Acenaphthene	**1.06**	0.206	0.413	ug/L	10	03/10/25 22:47	EPA 8270E LVI	
Acenaphthylene	**1.96**	0.206	0.413	ug/L	10	03/10/25 22:47	EPA 8270E LVI	
Anthracene	**1.17**	0.206	0.413	ug/L	10	03/10/25 22:47	EPA 8270E LVI	
Benz(a)anthracene	**1.10**	0.103	0.206	ug/L	10	03/10/25 22:47	EPA 8270E LVI	
Benzo(a)pyrene	**2.51**	0.103	0.206	ug/L	10	03/10/25 22:47	EPA 8270E LVI	
Benzo(b)fluoranthene	**2.36**	0.103	0.206	ug/L	10	03/10/25 22:47	EPA 8270E LVI	
Benzo(k)fluoranthene	**0.645**	0.103	0.206	ug/L	10	03/10/25 22:47	EPA 8270E LVI	**M-05**
Benzo(g,h,i)perylene	**3.23**	0.206	0.413	ug/L	10	03/10/25 22:47	EPA 8270E LVI	
Chrysene	**1.45**	0.103	0.206	ug/L	10	03/10/25 22:47	EPA 8270E LVI	
Dibenz(a,h)anthracene	**0.268**	0.103	0.206	ug/L	10	03/10/25 22:47	EPA 8270E LVI	
Fluoranthene	**2.21**	0.206	0.413	ug/L	10	03/10/25 22:47	EPA 8270E LVI	
Fluorene	**0.939**	0.206	0.413	ug/L	10	03/10/25 22:47	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	**2.23**	0.103	0.206	ug/L	10	03/10/25 22:47	EPA 8270E LVI	
1-Methylnaphthalene	**0.743**	0.413	0.826	ug/L	10	03/10/25 22:47	EPA 8270E LVI	**J**
2-Methylnaphthalene	**0.883**	0.413	0.826	ug/L	10	03/10/25 22:47	EPA 8270E LVI	
Naphthalene	**15.9**	0.413	0.826	ug/L	10	03/10/25 22:47	EPA 8270E LVI	
Phenanthrene	**2.41**	0.413	0.826	ug/L	10	03/10/25 22:47	EPA 8270E LVI	
Pyrene	**2.96**	0.206	0.413	ug/L	10	03/10/25 22:47	EPA 8270E LVI	
Dibenzofuran	ND	0.206	0.413	ug/L	10	03/10/25 22:47	EPA 8270E LVI	
Surrogate: Acenaphthylene-d8 (Surr)			*Recovery: %*	*Limits: 78-134 %*	*10*	*03/10/25 22:47*	*EPA 8270E LVI*	*S-01*
Benzo(a)pyrene-d12 (Surr)			*98 %*	*80-132 %*	*10*	*03/10/25 22:47*	*EPA 8270E LVI*	*S-05*
MW-1 (A5C1099-02)				**Matrix: Water**		**Batch: 25C0329**		**DCNT**
Acenaphthene	**0.318**	0.0190	0.0379	ug/L	1	03/10/25 16:52	EPA 8270E LVI	
Acenaphthylene	**0.0412**	0.0190	0.0379	ug/L	1	03/10/25 16:52	EPA 8270E LVI	
Anthracene	**0.0555**	0.0190	0.0379	ug/L	1	03/10/25 16:52	EPA 8270E LVI	
Benz(a)anthracene	**0.0152**	0.00948	0.0190	ug/L	1	03/10/25 16:52	EPA 8270E LVI	**J**
Benzo(a)pyrene	**0.0190**	0.00948	0.0190	ug/L	1	03/10/25 16:52	EPA 8270E LVI	
Benzo(b)fluoranthene	ND	0.0213	0.0213	ug/L	1	03/10/25 16:52	EPA 8270E LVI	R-02
Benzo(k)fluoranthene	ND	0.00948	0.0190	ug/L	1	03/10/25 16:52	EPA 8270E LVI	
Benzo(g,h,i)perylene	**0.0199**	0.0190	0.0379	ug/L	1	03/10/25 16:52	EPA 8270E LVI	**J**
Chrysene	**0.0147**	0.00948	0.0190	ug/L	1	03/10/25 16:52	EPA 8270E LVI	**J**
Dibenz(a,h)anthracene	ND	0.00948	0.0190	ug/L	1	03/10/25 16:52	EPA 8270E LVI	

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Darrell Auvil, Client Services Manager

Apex Laboratories, LLC

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Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1099 - 05 29 25 1602**

ANALYTICAL SAMPLE RESULTS

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-1 (A5C1099-02)				**Matrix: Water**		**Batch: 25C0329**		**DCNT**
Fluoranthene	**0.0209**	0.0190	0.0379	ug/L	1	03/10/25 16:52	EPA 8270E LVI	**J**
Fluorene	**0.0768**	0.0190	0.0379	ug/L	1	03/10/25 16:52	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	**0.0147**	0.00948	0.0190	ug/L	1	03/10/25 16:52	EPA 8270E LVI	**J**
1-Methylnaphthalene	ND	0.0379	0.0759	ug/L	1	03/10/25 16:52	EPA 8270E LVI	
2-Methylnaphthalene	ND	0.0379	0.0759	ug/L	1	03/10/25 16:52	EPA 8270E LVI	
Naphthalene	ND	0.0759	0.0759	ug/L	1	03/10/25 16:52	EPA 8270E LVI	
Phenanthrene	**0.0668**	0.0379	0.0759	ug/L	1	03/10/25 16:52	EPA 8270E LVI	**J**
Pyrene	**0.0512**	0.0190	0.0379	ug/L	1	03/10/25 16:52	EPA 8270E LVI	
Dibenzofuran	ND	0.0190	0.0379	ug/L	1	03/10/25 16:52	EPA 8270E LVI	
Surrogate: Acenaphthylene-d8 (Surr)		*Recovery: 84 %*		*Limits: 78-134 %*	*1*	*03/10/25 16:52*	*EPA 8270E LVI*	
Benzo(a)pyrene-d12 (Surr)		*102 %*		*80-132 %*	*1*	*03/10/25 16:52*	*EPA 8270E LVI*	
MW-2 (A5C1099-03)				**Matrix: Water**		**Batch: 25C0329**		**DCNT**
Acenaphthene	**0.413**	0.0225	0.0451	ug/L	1	03/10/25 17:24	EPA 8270E LVI	
Acenaphthylene	ND	0.0225	0.0451	ug/L	1	03/10/25 17:24	EPA 8270E LVI	
Anthracene	**0.0535**	0.0225	0.0451	ug/L	1	03/10/25 17:24	EPA 8270E LVI	
Benz(a)anthracene	**0.0208**	0.0113	0.0225	ug/L	1	03/10/25 17:24	EPA 8270E LVI	**J**
Benzo(a)pyrene	ND	0.0113	0.0225	ug/L	1	03/10/25 17:24	EPA 8270E LVI	
Benzo(b)fluoranthene	**0.0169**	0.0113	0.0225	ug/L	1	03/10/25 17:24	EPA 8270E LVI	**J**
Benzo(k)fluoranthene	ND	0.0113	0.0225	ug/L	1	03/10/25 17:24	EPA 8270E LVI	
Benzo(g,h,i)perylene	ND	0.0225	0.0451	ug/L	1	03/10/25 17:24	EPA 8270E LVI	
Chrysene	**0.0270**	0.0113	0.0225	ug/L	1	03/10/25 17:24	EPA 8270E LVI	**M-05**
Dibenz(a,h)anthracene	ND	0.0113	0.0225	ug/L	1	03/10/25 17:24	EPA 8270E LVI	
Fluoranthene	**0.201**	0.0225	0.0451	ug/L	1	03/10/25 17:24	EPA 8270E LVI	
Fluorene	**0.280**	0.0225	0.0451	ug/L	1	03/10/25 17:24	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	ND	0.0113	0.0225	ug/L	1	03/10/25 17:24	EPA 8270E LVI	
1-Methylnaphthalene	**0.244**	0.0451	0.0901	ug/L	1	03/10/25 17:24	EPA 8270E LVI	
2-Methylnaphthalene	**0.355**	0.0451	0.0901	ug/L	1	03/10/25 17:24	EPA 8270E LVI	
Naphthalene	**0.832**	0.0451	0.0901	ug/L	1	03/10/25 17:24	EPA 8270E LVI	
Phenanthrene	**0.226**	0.0451	0.0901	ug/L	1	03/10/25 17:24	EPA 8270E LVI	
Pyrene	**0.163**	0.0225	0.0451	ug/L	1	03/10/25 17:24	EPA 8270E LVI	
Dibenzofuran	**0.125**	0.0225	0.0451	ug/L	1	03/10/25 17:24	EPA 8270E LVI	
Surrogate: Acenaphthylene-d8 (Surr)		*Recovery: 82 %*		*Limits: 78-134 %*	*1*	*03/10/25 17:24*	*EPA 8270E LVI*	

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Darrell Auvil, Client Services Manager

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

ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1099 - 05 29 25 1602**

ANALYTICAL SAMPLE RESULTS

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-2 (A5C1099-03)				**Matrix: Water**		**Batch: 25C0329**		**DCNT**
Surrogate: Benzo(a)pyrene-d12 (Surr)			*Recovery: 101 %*	*Limits: 80-132 %*	*1*	*03/10/25 17:24*	*EPA 8270E LVI*	
T1-GW-46 (A5C1099-04RE1)				**Matrix: Water**		**Batch: 25C0446**		**DCNT**
Acenaphthene	**2.60**	0.0212	0.0423	ug/L	1	03/12/25 18:11	EPA 8270E LVI	
Acenaphthylene	**1.54**	0.0212	0.0423	ug/L	1	03/12/25 18:11	EPA 8270E LVI	
Anthracene	**0.616**	0.0212	0.0423	ug/L	1	03/12/25 18:11	EPA 8270E LVI	
Benz(a)anthracene	**0.121**	0.0106	0.0212	ug/L	1	03/12/25 18:11	EPA 8270E LVI	
Benzo(a)pyrene	**0.164**	0.0106	0.0212	ug/L	1	03/12/25 18:11	EPA 8270E LVI	
Benzo(b)fluoranthene	**0.150**	0.0106	0.0212	ug/L	1	03/12/25 18:11	EPA 8270E LVI	
Benzo(k)fluoranthene	**0.0413**	0.0106	0.0212	ug/L	1	03/12/25 18:11	EPA 8270E LVI	**M-05**
Benzo(g,h,i)perylene	**0.151**	0.0212	0.0423	ug/L	1	03/12/25 18:11	EPA 8270E LVI	
Chrysene	**0.139**	0.0106	0.0212	ug/L	1	03/12/25 18:11	EPA 8270E LVI	
Dibenz(a,h)anthracene	ND	0.0212	0.0212	ug/L	1	03/12/25 18:11	EPA 8270E LVI	
Fluoranthene	**0.942**	0.0212	0.0423	ug/L	1	03/12/25 18:11	EPA 8270E LVI	
Fluorene	**1.88**	0.0212	0.0423	ug/L	1	03/12/25 18:11	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	**0.113**	0.0106	0.0212	ug/L	1	03/12/25 18:11	EPA 8270E LVI	
Phenanthrene	**3.59**	0.0423	0.0846	ug/L	1	03/12/25 18:11	EPA 8270E LVI	
Pyrene	**0.963**	0.0212	0.0423	ug/L	1	03/12/25 18:11	EPA 8270E LVI	
Dibenzofuran	**0.395**	0.0212	0.0423	ug/L	1	03/12/25 18:11	EPA 8270E LVI	
Surrogate: Acenaphthylene-d8 (Surr)			*Recovery: 85 %*	*Limits: 78-134 %*	*1*	*03/12/25 18:11*	*EPA 8270E LVI*	
Benzo(a)pyrene-d12 (Surr)			*102 %*	*80-132 %*	*1*	*03/12/25 18:11*	*EPA 8270E LVI*	
T1-GW-46 (A5C1099-04RE2)				**Matrix: Water**		**Batch: 25C0446**		**DCNT**
1-Methylnaphthalene	**1.77**	0.423	0.846	ug/L	10	03/12/25 21:58	EPA 8270E LVI	
2-Methylnaphthalene	**2.26**	0.423	0.846	ug/L	10	03/12/25 21:58	EPA 8270E LVI	
Naphthalene	**22.6**	0.423	0.846	ug/L	10	03/12/25 21:58	EPA 8270E LVI	

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Darrell Auvil, Client Services Manager

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1099 - 05 29 25 1602**

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
T1-GW-34 (A5C1099-01)				**Matrix: Water**				
Batch: 25C0929								
Arsenic	**15.6**	---	1.00	ug/L	1	03/24/25 22:49	EPA 6020B	
Iron	**18200**	---	50.0	ug/L	1	03/24/25 22:49	EPA 6020B	
Manganese	**469**	---	1.00	ug/L	1	03/24/25 22:49	EPA 6020B	
MW-1 (A5C1099-02)				**Matrix: Water**				
Batch: 25C0929								
Arsenic	**39.6**	---	1.00	ug/L	1	03/24/25 22:54	EPA 6020B	
Iron	**30800**	---	50.0	ug/L	1	03/24/25 22:54	EPA 6020B	
MW-1 (A5C1099-02RE1)				**Matrix: Water**				
Batch: 25C0929								
Manganese	**11700**	---	10.0	ug/L	10	03/25/25 15:26	EPA 6020B	
MW-2 (A5C1099-03)				**Matrix: Water**				
Batch: 25C0929								
Arsenic	**16.4**	---	1.00	ug/L	1	03/24/25 23:00	EPA 6020B	
Iron	ND	---	50.0	ug/L	1	03/24/25 23:00	EPA 6020B	
Manganese	**1.86**	---	1.00	ug/L	1	03/24/25 23:00	EPA 6020B	
T1-GW-46 (A5C1099-04)				**Matrix: Water**				
Batch: 25C0929								
Arsenic	**318**	---	50.0	ug/L	50	03/24/25 23:05	EPA 6020B	
Iron	**1430000**	---	2500	ug/L	50	03/24/25 23:05	EPA 6020B	
Manganese	**38900**	---	50.0	ug/L	50	03/24/25 23:05	EPA 6020B	

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15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1099 - 05 29 25 1602**

ANALYTICAL SAMPLE RESULTS

Dissolved Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
T1-GW-34 (A5C1099-01)				**Matrix: Water**				
Batch: 25C0902								
Arsenic	**10.7**	---	1.00	ug/L	1	03/24/25 00:50	EPA 6020B (Diss)	
Iron	**50.5**	---	50.0	ug/L	1	03/24/25 00:50	EPA 6020B (Diss)	
Manganese	**73.7**	---	1.00	ug/L	1	03/24/25 00:50	EPA 6020B (Diss)	
MW-1 (A5C1099-02)				**Matrix: Water**				
Batch: 25C0902								
Arsenic	**37.4**	---	1.00	ug/L	1	03/24/25 00:55	EPA 6020B (Diss)	
Iron	**30000**	---	50.0	ug/L	1	03/24/25 00:55	EPA 6020B (Diss)	
MW-1 (A5C1099-02RE1)				**Matrix: Water**				
Batch: 25C0902								
Manganese	**10900**	---	10.0	ug/L	10	03/24/25 19:36	EPA 6020B (Diss)	
MW-2 (A5C1099-03)				**Matrix: Water**				
Batch: 25C0902								
Arsenic	**15.3**	---	1.00	ug/L	1	03/24/25 01:06	EPA 6020B (Diss)	
Iron	ND	---	50.0	ug/L	1	03/24/25 01:06	EPA 6020B (Diss)	
Manganese	**1.53**	---	1.00	ug/L	1	03/24/25 01:06	EPA 6020B (Diss)	
T1-GW-46 (A5C1099-04)				**Matrix: Water**				
Batch: 25C0902								
Arsenic	**5.86**	---	1.00	ug/L	1	03/24/25 01:12	EPA 6020B (Diss)	
Iron	**130**	---	50.0	ug/L	1	03/24/25 01:12	EPA 6020B (Diss)	
Manganese	**1200**	---	1.00	ug/L	1	03/24/25 01:12	EPA 6020B (Diss)	

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15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1099 - 05 29 25 1602**

ANALYTICAL SAMPLE RESULTS

Anions by Ion Chromatography

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
T1-GW-34 (A5C1099-01)				**Matrix: Water**				
Batch: 25C0284								
Nitrate-Nitrogen	ND	---	0.250	mg/L	1	03/07/25 17:52	EPA 300.0	J
T1-GW-34 (A5C1099-01RE1)				**Matrix: Water**				
Batch: 25C0394								
Sulfate	**67.6**	---	5.00	mg/L	5	03/12/25 00:48	EPA 300.0	
MW-1 (A5C1099-02)				**Matrix: Water**				
Batch: 25C0284								
Nitrate-Nitrogen	ND	---	0.250	mg/L	1	03/07/25 18:14	EPA 300.0	
Sulfate	ND	---	1.00	mg/L	1	03/07/25 18:14	EPA 300.0	
MW-2 (A5C1099-03)				**Matrix: Water**				
Batch: 25C0284								
Nitrate-Nitrogen	ND	---	0.250	mg/L	1	03/07/25 18:36	EPA 300.0	
Sulfate	**25.7**	---	1.00	mg/L	1	03/07/25 18:36	EPA 300.0	
T1-GW-46 (A5C1099-04)				**Matrix: Water**				
Batch: 25C0284								
Nitrate-Nitrogen	**0.500**	---	0.250	mg/L	1	03/07/25 18:57	EPA 300.0	
Sulfate	**15.5**	---	1.00	mg/L	1	03/07/25 18:57	EPA 300.0	

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15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1099 - 05 29 25 1602**

QUALITY CONTROL (QC) SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25C0849 - EPA 3510C (Neutral pH)/3640A (GPC)							**Water**					
Blank (25C0849-BLK1)			Prepared: 03/13/25 11:18		Analyzed: 03/24/25 14:30							**C-05**
EPA 8081B												
2,4'-DDD	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
2,4'-DDE	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
2,4'-DDT	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
4,4'-DDD	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
4,4'-DDE	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
4,4'-DDT	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 39 %*		*Limits: 25-140 %*				*Dilution: 1x*			
Decachlorobiphenyl (Surr)			*67 %*		*30-135 %*				*"*			
LCS (25C0849-BS1)			Prepared: 03/13/25 11:18		Analyzed: 03/24/25 14:47							**C-05**
EPA 8081B												
2,4'-DDD	0.530	0.0100	0.0200	ug/L	1	0.500	---	106	66-120%	---	---	
2,4'-DDE	0.480	0.0100	0.0200	ug/L	1	0.500	---	96	55-120%	---	---	
2,4'-DDT	0.551	0.0100	0.0200	ug/L	1	0.500	---	110	62-127%	---	---	
4,4'-DDD	0.512	0.0100	0.0200	ug/L	1	0.500	---	102	56-143%	---	---	
4,4'-DDE	0.475	0.0100	0.0200	ug/L	1	0.500	---	95	57-135%	---	---	
4,4'-DDT	0.509	0.0100	0.0200	ug/L	1	0.500	---	102	51-143%	---	---	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 47 %*		*Limits: 25-140 %*				*Dilution: 1x*			
Decachlorobiphenyl (Surr)			*63 %*		*30-135 %*				*"*			
LCS Dup (25C0849-BSD1)			Prepared: 03/13/25 11:18		Analyzed: 03/24/25 15:04							**C-05, Q-19**
EPA 8081B												
2,4'-DDD	0.548	0.0100	0.0200	ug/L	1	0.500	---	110	66-120%	3	30%	
2,4'-DDE	0.477	0.0100	0.0200	ug/L	1	0.500	---	95	55-120%	0.7	30%	
2,4'-DDT	0.590	0.0100	0.0200	ug/L	1	0.500	---	118	62-127%	7	30%	
4,4'-DDD	0.543	0.0100	0.0200	ug/L	1	0.500	---	109	56-143%	6	30%	
4,4'-DDE	0.483	0.0100	0.0200	ug/L	1	0.500	---	97	57-135%	2	30%	
4,4'-DDT	0.562	0.0100	0.0200	ug/L	1	0.500	---	112	51-143%	10	30%	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 50 %*		*Limits: 25-140 %*				*Dilution: 1x*			
Decachlorobiphenyl (Surr)			*64 %*		*30-135 %*				*"*			

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Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1099 - 05 29 25 1602**

QUALITY CONTROL (QC) SAMPLE RESULTS

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25C0329 - EPA 3511 (Bottle Extraction)							**Water**					
Blank (25C0329-BLK1)			Prepared: 03/10/25 06:54 Analyzed: 03/10/25 13:37									
EPA 8270E LVI												
Acenaphthene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Acenaphthylene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Anthracene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Benz(a)anthracene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Chrysene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Fluoranthene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Fluorene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
1-Methylnaphthalene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
2-Methylnaphthalene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
Phenanthrene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
Pyrene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Carbazole	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Dibenzofuran	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Surr: Acenaphthylene-d8 (Surr)			*Recovery: 83 %*		*Limits: 78-134 %*				*Dilution: 1x*			
Benzo(a)pyrene-d12 (Surr)			*98 %*		*80-132 %*				*"*			
LCS (25C0329-BS1)			Prepared: 03/10/25 06:54 Analyzed: 03/10/25 14:09									
EPA 8270E LVI												
Acenaphthene	1.60	0.0160	0.0320	ug/L	1	1.60	---	100	80-120%	---	---	
Acenaphthylene	1.45	0.0160	0.0320	ug/L	1	1.60	---	91	80-124%	---	---	
Anthracene	1.42	0.0160	0.0320	ug/L	1	1.60	---	89	80-123%	---	---	
Benz(a)anthracene	1.49	0.00800	0.0160	ug/L	1	1.60	---	93	80-122%	---	---	
Benzo(a)pyrene	1.59	0.00800	0.0160	ug/L	1	1.60	---	99	80-129%	---	---	
Benzo(b)fluoranthene	1.50	0.00800	0.0160	ug/L	1	1.60	---	94	80-124%	---	---	
Benzo(k)fluoranthene	1.53	0.00800	0.0160	ug/L	1	1.60	---	96	80-125%	---	---	
Benzo(g,h,i)perylene	1.40	0.0160	0.0320	ug/L	1	1.60	---	87	80-120%	---	---	

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15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1099 - 05 29 25 1602**

QUALITY CONTROL (QC) SAMPLE RESULTS

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25C0329 - EPA 3511 (Bottle Extraction)							**Water**					
LCS (25C0329-BS1)			Prepared: 03/10/25 06:54 Analyzed: 03/10/25 14:09									
Chrysene	1.41	0.00800	0.0160	ug/L	1	1.60	---	88	80-120%	---	---	
Dibenz(a,h)anthracene	1.48	0.00800	0.0160	ug/L	1	1.60	---	93	80-120%	---	---	
Fluoranthene	1.45	0.0160	0.0320	ug/L	1	1.60	---	90	80-126%	---	---	
Fluorene	1.75	0.0160	0.0320	ug/L	1	1.60	---	110	77-127%	---	---	
Indeno(1,2,3-cd)pyrene	1.35	0.00800	0.0160	ug/L	1	1.60	---	84	80-121%	---	---	
1-Methylnaphthalene	1.74	0.0320	0.0640	ug/L	1	1.60	---	109	53-148%	---	---	
2-Methylnaphthalene	1.71	0.0320	0.0640	ug/L	1	1.60	---	107	48-150%	---	---	
Naphthalene	1.67	0.0320	0.0640	ug/L	1	1.60	---	104	78-120%	---	---	
Phenanthrene	1.43	0.0320	0.0640	ug/L	1	1.60	---	90	80-120%	---	---	
Pyrene	1.43	0.0160	0.0320	ug/L	1	1.60	---	90	80-125%	---	---	
Carbazole	1.63	0.0160	0.0320	ug/L	1	1.60	---	102	65-141%	---	---	
Dibenzofuran	1.54	0.0160	0.0320	ug/L	1	1.60	---	96	76-121%	---	---	
Surr: Acenaphthylene-d8 (Surr)			*Recovery: 85 %*		*Limits: 78-134 %*				*Dilution: 1x*			
Benzo(a)pyrene-d12 (Surr)			*100 %*		*80-132 %*				*"*			
LCS Dup (25C0329-BSD1)			Prepared: 03/10/25 06:54 Analyzed: 03/10/25 14:42									**Q-19**
EPA 8270E LVI												
Acenaphthene	1.70	0.0160	0.0320	ug/L	1	1.60	---	107	80-120%	7	30%	
Acenaphthylene	1.55	0.0160	0.0320	ug/L	1	1.60	---	97	80-124%	7	30%	
Anthracene	1.42	0.0160	0.0320	ug/L	1	1.60	---	89	80-123%	0.3	30%	
Benz(a)anthracene	1.51	0.00800	0.0160	ug/L	1	1.60	---	95	80-122%	2	30%	
Benzo(a)pyrene	1.59	0.00800	0.0160	ug/L	1	1.60	---	100	80-129%	0.3	30%	
Benzo(b)fluoranthene	1.52	0.00800	0.0160	ug/L	1	1.60	---	95	80-124%	1	30%	
Benzo(k)fluoranthene	1.54	0.00800	0.0160	ug/L	1	1.60	---	96	80-125%	0.4	30%	
Benzo(g,h,i)perylene	1.42	0.0160	0.0320	ug/L	1	1.60	---	88	80-120%	1	30%	
Chrysene	1.42	0.00800	0.0160	ug/L	1	1.60	---	89	80-120%	0.7	30%	
Dibenz(a,h)anthracene	1.51	0.00800	0.0160	ug/L	1	1.60	---	94	80-120%	1	30%	
Fluoranthene	1.46	0.0160	0.0320	ug/L	1	1.60	---	92	80-126%	1	30%	
Fluorene	1.90	0.0160	0.0320	ug/L	1	1.60	---	119	77-127%	8	30%	
Indeno(1,2,3-cd)pyrene	1.37	0.00800	0.0160	ug/L	1	1.60	---	86	80-121%	2	30%	
1-Methylnaphthalene	1.69	0.0320	0.0640	ug/L	1	1.60	---	106	53-148%	3	30%	
2-Methylnaphthalene	1.64	0.0320	0.0640	ug/L	1	1.60	---	102	48-150%	4	30%	
Naphthalene	1.75	0.0320	0.0640	ug/L	1	1.60	---	109	78-120%	5	30%	
Phenanthrene	1.47	0.0320	0.0640	ug/L	1	1.60	---	92	80-120%	2	30%	

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Darrell Auvil, Client Services Manager

Apex Laboratories, LLC

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

Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1099 - 05 29 25 1602**

QUALITY CONTROL (QC) SAMPLE RESULTS

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25C0329 - EPA 3511 (Bottle Extraction)							**Water**					
LCS Dup (25C0329-BSD1)			Prepared: 03/10/25 06:54		Analyzed: 03/10/25 14:42							**Q-19**
Pyrene	1.44	0.0160	0.0320	ug/L	1	1.60	---	90	80-125%	0.4	30%	
Carbazole	1.65	0.0160	0.0320	ug/L	1	1.60	---	103	65-141%	2	30%	
Dibenzofuran	1.63	0.0160	0.0320	ug/L	1	1.60	---	102	76-121%	6	30%	
Surr: Acenaphthylene-d8 (Surr)			*Recovery: 86 %*		*Limits: 78-134 %*				*Dilution: 1x*			
Benzo(a)pyrene-d12 (Surr)			*99 %*		*80-132 %*				*"*			

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Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1099 - 05 29 25 1602**

QUALITY CONTROL (QC) SAMPLE RESULTS

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25C0446 - EPA 3511 (Bottle Extraction)								**Water**				
Blank (25C0446-BLK1)			Prepared: 03/12/25 08:09 Analyzed: 03/12/25 12:12									
EPA 8270E LVI												
Acenaphthene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Acenaphthylene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Anthracene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Benz(a)anthracene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Chrysene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Fluoranthene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Fluorene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
1-Methylnaphthalene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
2-Methylnaphthalene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
Phenanthrene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
Pyrene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Carbazole	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Dibenzofuran	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Surr: Acenaphthylene-d8 (Surr)			*Recovery: 92 %*		*Limits: 78-134 %*				*Dilution: 1x*			
Benzo(a)pyrene-d12 (Surr)			*96 %*		*80-132 %*				*"*			
LCS (25C0446-BS1)			Prepared: 03/12/25 08:09 Analyzed: 03/12/25 12:45									
EPA 8270E LVI												
Acenaphthene	1.52	0.0160	0.0320	ug/L	1	1.60	---	95	80-120%	---	---	
Acenaphthylene	1.53	0.0160	0.0320	ug/L	1	1.60	---	95	80-124%	---	---	
Anthracene	1.46	0.0160	0.0320	ug/L	1	1.60	---	91	80-123%	---	---	
Benz(a)anthracene	1.58	0.00800	0.0160	ug/L	1	1.60	---	99	80-122%	---	---	
Benzo(a)pyrene	1.65	0.00800	0.0160	ug/L	1	1.60	---	103	80-129%	---	---	
Benzo(b)fluoranthene	1.56	0.00800	0.0160	ug/L	1	1.60	---	98	80-124%	---	---	
Benzo(k)fluoranthene	1.60	0.00800	0.0160	ug/L	1	1.60	---	100	80-125%	---	---	
Benzo(g,h,i)perylene	1.48	0.0160	0.0320	ug/L	1	1.60	---	93	80-120%	---	---	

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Darrell Auvil, Client Services Manager

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503-718-2323
ORELAP ID: **OR100062**

Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1099 - 05 29 25 1602**

QUALITY CONTROL (QC) SAMPLE RESULTS

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25C0446 - EPA 3511 (Bottle Extraction)							**Water**					
LCS (25C0446-BS1)			Prepared: 03/12/25 08:09 Analyzed: 03/12/25 12:45									
Chrysene	1.47	0.00800	0.0160	ug/L	1	1.60	---	92	80-120%	---	---	
Dibenz(a,h)anthracene	1.56	0.00800	0.0160	ug/L	1	1.60	---	98	80-120%	---	---	
Fluoranthene	1.51	0.0160	0.0320	ug/L	1	1.60	---	94	80-126%	---	---	
Fluorene	1.71	0.0160	0.0320	ug/L	1	1.60	---	107	77-127%	---	---	
Indeno(1,2,3-cd)pyrene	1.36	0.00800	0.0160	ug/L	1	1.60	---	85	80-121%	---	---	
1-Methylnaphthalene	1.48	0.0320	0.0640	ug/L	1	1.60	---	92	53-148%	---	---	
2-Methylnaphthalene	1.43	0.0320	0.0640	ug/L	1	1.60	---	90	48-150%	---	---	
Naphthalene	1.55	0.0320	0.0640	ug/L	1	1.60	---	97	78-120%	---	---	
Phenanthrene	1.47	0.0320	0.0640	ug/L	1	1.60	---	92	80-120%	---	---	
Pyrene	1.50	0.0160	0.0320	ug/L	1	1.60	---	94	80-125%	---	---	
Carbazole	1.62	0.0160	0.0320	ug/L	1	1.60	---	101	65-141%	---	---	
Dibenzofuran	1.61	0.0160	0.0320	ug/L	1	1.60	---	101	76-121%	---	---	
Surr: Acenaphthylene-d8 (Surr)			*Recovery: 87 %*		*Limits: 78-134 %*			*Dilution: 1x*				
Benzo(a)pyrene-d12 (Surr)			*99 %*		*80-132 %*			*"*				
Matrix Spike (25C0446-MS1)			Prepared: 03/12/25 08:10 Analyzed: 03/12/25 13:50									
QC Source Sample: Non-SDG (A5C1214-06)												
EPA 8270E LVI												
Acenaphthene	87.6	0.359	0.719	ug/L	20	1.80	89.1	**-83**	**80-120%**	---	---	Q-03
Acenaphthylene	8.96	0.359	0.719	ug/L	20	1.80	8.52	**24**	**80-124%**	---	---	Q-03
Anthracene	6.25	0.359	0.719	ug/L	20	1.80	4.44	101	80-123%	---	---	
Benz(a)anthracene	1.96	0.359	0.359	ug/L	20	1.80	ND	109	80-122%	---	---	
Benzo(a)pyrene	1.84	0.180	0.359	ug/L	20	1.80	ND	102	80-129%	---	---	
Benzo(b)fluoranthene	1.69	0.180	0.359	ug/L	20	1.80	ND	94	80-124%	---	---	
Benzo(k)fluoranthene	1.78	0.180	0.359	ug/L	20	1.80	ND	99	80-125%	---	---	
Benzo(g,h,i)perylene	1.61	0.359	0.719	ug/L	20	1.80	ND	90	80-120%	---	---	
Chrysene	1.70	0.180	0.359	ug/L	20	1.80	ND	95	80-120%	---	---	
Dibenz(a,h)anthracene	1.62	0.180	0.359	ug/L	20	1.80	ND	90	80-120%	---	---	
Fluoranthene	3.48	0.359	0.719	ug/L	20	1.80	2.09	**77**	**80-126%**	---	---	Q-03
Fluorene	22.7	0.359	0.719	ug/L	20	1.80	21.4	**74**	**77-127%**	---	---	Q-03
Indeno(1,2,3-cd)pyrene	1.63	0.180	0.359	ug/L	20	1.80	ND	91	80-121%	---	---	
1-Methylnaphthalene	78.7	0.719	1.44	ug/L	20	1.80	79.7	**-56**	**53-148%**	---	---	Q-03
2-Methylnaphthalene	87.8	0.719	1.44	ug/L	20	1.80	90.0	**-123**	**48-150%**	---	---	Q-03
Naphthalene	925	0.719	1.44	ug/L	20	1.80	971	**-2540**	**78-120%**	---	---	E, Q-03

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APEX LABORATORIES

Apex Laboratories, LLC
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Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1099 - 05 29 25 1602**

QUALITY CONTROL (QC) SAMPLE RESULTS

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25C0446 - EPA 3511 (Bottle Extraction)								**Water**				
Matrix Spike (25C0446-MS1)			Prepared: 03/12/25 08:10 Analyzed: 03/12/25 13:50									
QC Source Sample: Non-SDG (A5C1214-06)												
Phenanthrene	22.1	0.719	1.44	ug/L	20	1.80	21.1	**56**	**80-120%**	---	---	Q-03
Pyrene	3.26	0.359	0.719	ug/L	20	1.80	1.79	82	80-125%	---	---	
Carbazole	35.5	0.359	0.719	ug/L	20	1.80	33.8	92	65-141%	---	---	
Dibenzofuran	9.16	0.359	0.719	ug/L	20	1.80	7.75	79	76-121%	---	---	
Surr: Acenaphthylene-d8 (Surr)			*Recovery: % 100 %*	*Limits: 78-134 % 80-132 %*		*Dilution: 20x "*						*S-01* *S-05*
Matrix Spike Dup (25C0446-MSD1)			Prepared: 03/12/25 08:10 Analyzed: 03/12/25 14:23									
QC Source Sample: Non-SDG (A5C1214-06)												
Acenaphthene	88.8	0.351	0.703	ug/L	20	1.76	89.1	**-20**	**80-120%**	1	30%	Q-03
Acenaphthylene	8.69	0.351	0.703	ug/L	20	1.76	8.52	**10**	**80-124%**	3	30%	Q-03
Anthracene	6.24	0.351	0.703	ug/L	20	1.76	4.44	103	80-123%	0.1	30%	
Benz(a)anthracene	1.94	0.351	0.351	ug/L	20	1.76	ND	110	80-122%	0.9	30%	
Benzo(a)pyrene	1.67	0.176	0.351	ug/L	20	1.76	ND	95	80-129%	10	30%	
Benzo(b)fluoranthene	1.70	0.176	0.351	ug/L	20	1.76	ND	96	80-124%	0.4	30%	
Benzo(k)fluoranthene	1.67	0.176	0.351	ug/L	20	1.76	ND	95	80-125%	6	30%	
Benzo(g,h,i)perylene	1.49	0.351	0.703	ug/L	20	1.76	ND	85	80-120%	7	30%	
Chrysene	1.62	0.176	0.351	ug/L	20	1.76	ND	92	80-120%	4	30%	
Dibenz(a,h)anthracene	1.61	0.176	0.351	ug/L	20	1.76	ND	92	80-120%	0.6	30%	
Fluoranthene	3.61	0.351	0.703	ug/L	20	1.76	2.09	87	80-126%	4	30%	
Fluorene	23.2	0.351	0.703	ug/L	20	1.76	21.4	101	77-127%	2	30%	
Indeno(1,2,3-cd)pyrene	1.55	0.176	0.351	ug/L	20	1.76	ND	88	80-121%	6	30%	
1-Methylnaphthalene	81.9	0.703	1.41	ug/L	20	1.76	79.7	126	53-148%	4	30%	
2-Methylnaphthalene	91.6	0.703	1.41	ug/L	20	1.76	90.0	90	48-150%	4	30%	
Naphthalene	954	0.703	1.41	ug/L	20	1.76	971	**-964**	**78-120%**	3	30%	E, Q-03
Phenanthrene	22.9	0.703	1.41	ug/L	20	1.76	21.1	102	80-120%	4	30%	
Pyrene	3.28	0.351	0.703	ug/L	20	1.76	1.79	85	80-125%	0.7	30%	
Carbazole	36.7	0.351	0.703	ug/L	20	1.76	33.8	**166**	**65-141%**	3	30%	Q-03
Dibenzofuran	9.18	0.351	0.703	ug/L	20	1.76	7.75	81	76-121%	0.2	30%	
Surr: Acenaphthylene-d8 (Surr)			*Recovery: % 95 %*	*Limits: 78-134 % 80-132 %*		*Dilution: 20x "*						*S-01* *S-05*

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ORELAP ID: **OR100062**

Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1099 - 05 29 25 1602**

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 25C0929 - EPA 3015A									Water			
Blank (25C0929-BLK1)			Prepared: 03/24/25 09:01		Analyzed: 03/24/25 21:47							
EPA 6020B												
Arsenic	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Iron	ND	---	50.0	ug/L	1	---	---	---	---	---	---	
Manganese	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
LCS (25C0929-BS1)			Prepared: 03/24/25 09:01		Analyzed: 03/24/25 21:52							
EPA 6020B												
Arsenic	57.2	---	1.00	ug/L	1	55.6	---	103	80-120%	---	---	
Iron	5670	---	50.0	ug/L	1	5560	---	102	80-120%	---	---	
Manganese	57.1	---	1.00	ug/L	1	55.6	---	103	80-120%	---	---	
Duplicate (25C0929-DUP1)			Prepared: 03/24/25 09:01		Analyzed: 03/24/25 22:08							
QC Source Sample: Non-SDG (A5C0942-01)												
Arsenic	**38.2**	---	1.00	ug/L	1	---	22.3	---	---	**53**	**20%**	Q-04
Duplicate (25C0929-DUP2)			Prepared: 03/24/25 09:01		Analyzed: 03/25/25 15:21							
QC Source Sample: Non-SDG (A5C0942-01RE1)												
Iron	**202000**	---	500	ug/L	10	---	149000	---	---	**30**	**20%**	Q-04, Q-16
Manganese	**5090**	---	10.0	ug/L	10	---	5120	---	---	0.4	20%	Q-16
Matrix Spike (25C0929-MS1)			Prepared: 03/24/25 09:01		Analyzed: 03/24/25 22:14							
QC Source Sample: Non-SDG (A5C0942-01)												
EPA 6020B												
Arsenic	81.4	---	1.00	ug/L	1	55.6	22.3	106	75-125%	---	---	
Iron	169000	---	50.0	ug/L	1	5560	142000	**490**	**75-125%**	---	---	E, Q-65
Manganese	4950	---	1.00	ug/L	1	55.6	4800	**268**	**75-125%**	---	---	E, Q-65

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

Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1099 - 05 29 25 1602**

QUALITY CONTROL (QC) SAMPLE RESULTS

Dissolved 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 25C0902 - Matrix Matched Direct Inject								**Water**				
Blank (25C0902-BLK1)			Prepared: 03/22/25 13:23		Analyzed: 03/24/25 00:23							
EPA 6020B (Diss)												
Arsenic	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Iron	ND	---	50.0	ug/L	1	---	---	---	---	---	---	
Manganese	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
LCS (25C0902-BS1)			Prepared: 03/22/25 13:23		Analyzed: 03/24/25 00:28							
EPA 6020B (Diss)												
Arsenic	55.3	---	1.00	ug/L	1	55.6	---	100	80-120%	---	---	
Iron	5740	---	50.0	ug/L	1	5560	---	103	80-120%	---	---	
Manganese	56.2	---	1.00	ug/L	1	55.6	---	101	80-120%	---	---	
Duplicate (25C0902-DUP1)			Prepared: 03/22/25 13:23		Analyzed: 03/24/25 00:39							
QC Source Sample: Non-SDG (A5C1035-01)												
Arsenic	**12.3**	---	1.00	ug/L	1	---	12.1	---	---	1	20%	
Iron	**2240**	---	50.0	ug/L	1	---	2190	---	---	2	20%	
Manganese	**2550**	---	1.00	ug/L	1	---	2500	---	---	2	20%	
Matrix Spike (25C0902-MS1)			Prepared: 03/22/25 13:23		Analyzed: 03/24/25 01:01							
QC Source Sample: MW-1 (A5C1099-02)												
EPA 6020B (Diss)												
Arsenic	94.6	---	1.00	ug/L	1	55.6	37.4	103	75-125%	---	---	
Iron	35300	---	50.0	ug/L	1	5560	30000	96	75-125%	---	---	
Manganese	10500	---	1.00	ug/L	1	55.6	10600	**-87**	**75-125%**	---	---	E, Q-65
Matrix Spike (25C0902-MS2)			Prepared: 03/22/25 13:23		Analyzed: 03/24/25 19:42							
QC Source Sample: MW-1 (A5C1099-02RE1)												
EPA 6020B (Diss)												
Manganese	10900	---	10.0	ug/L	10	55.6	10900	**-111**	**75-125%**	---	---	Q-16

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QUALITY CONTROL (QC) SAMPLE RESULTS

Anions by Ion Chromatography

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25C0284 - Method Prep: Aq							**Water**					
Blank (25C0284-BLK1)			Prepared: 03/07/25 08:25		Analyzed: 03/07/25 12:51							
EPA 300.0												
Nitrate-Nitrogen	ND	---	0.250	mg/L	1	---	---	---	---	---	---	
Sulfate	ND	---	1.00	mg/L	1	---	---	---	---	---	---	
LCS (25C0284-BS1)			Prepared: 03/07/25 08:25		Analyzed: 03/07/25 13:12							
EPA 300.0												
Nitrate-Nitrogen	1.94	---	0.250	mg/L	1	2.00	---	97	90-110%	---	---	
Sulfate	7.68	---	1.00	mg/L	1	8.00	---	96	90-110%	---	---	
Duplicate (25C0284-DUP1)			Prepared: 03/07/25 08:25		Analyzed: 03/07/25 13:55							
QC Source Sample: Non-SDG (A5C1027-01RE1)												
Nitrate-Nitrogen	**7.07**	---	2.50	mg/L	10	---	7.07	---	---	0.01	10%	
Sulfate	**332**	---	10.0	mg/L	10	---	333	---	---	0.1	10%	
Duplicate (25C0284-DUP2)			Prepared: 03/07/25 08:25		Analyzed: 03/07/25 15:00							
QC Source Sample: Non-SDG (A5C1052-01)												
Nitrate-Nitrogen	**4.01**	---	0.250	mg/L	1	---	4.01	---	---	0.04	10%	
Sulfate	**14.3**	---	1.00	mg/L	1	---	14.3	---	---	0.1	10%	
Matrix Spike (25C0284-MS1)			Prepared: 03/07/25 08:25		Analyzed: 03/07/25 14:17							
QC Source Sample: Non-SDG (A5C1027-01RE1)												
EPA 300.0												
Nitrate-Nitrogen	26.5	---	2.50	mg/L	10	20.0	7.07	97	87-112%	---	---	
Sulfate	409	---	10.0	mg/L	10	80.0	333	95	88-115%	---	---	E
Matrix Spike (25C0284-MS2)			Prepared: 03/07/25 08:25		Analyzed: 03/07/25 15:22							
QC Source Sample: Non-SDG (A5C1052-01)												
EPA 300.0												
Nitrate-Nitrogen	6.43	---	0.312	mg/L	1	2.50	4.01	97	87-112%	---	---	
Sulfate	24.1	---	1.25	mg/L	1	10.0	14.3	98	88-115%	---	---	

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ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1099 - 05 29 25 1602**

QUALITY CONTROL (QC) SAMPLE RESULTS

Anions by Ion Chromatography

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25C0394 - Method Prep: Aq							**Water**					
Blank (25C0394-BLK1)			Prepared: 03/11/25 08:34		Analyzed: 03/11/25 11:09							
EPA 300.0												
Sulfate	ND	---	1.00	mg/L	1	---	---	---	---	---	---	
LCS (25C0394-BS1)			Prepared: 03/11/25 08:34		Analyzed: 03/11/25 11:30							
EPA 300.0												
Sulfate	7.65	---	1.00	mg/L	1	8.00	---	96	90-110%	---	---	
Duplicate (25C0394-DUP1)			Prepared: 03/11/25 08:34		Analyzed: 03/11/25 12:35							
QC Source Sample: Non-SDG (A5C1180-02)												
Sulfate	**45.2**	---	1.00	mg/L	1	---	45.2	---	---	0.04	10%	E
Duplicate (25C0394-DUP2)			Prepared: 03/11/25 08:34		Analyzed: 03/12/25 00:05							
QC Source Sample: Non-SDG (A5C1120-02RE1)												
Sulfate	**21.4**	---	1.00	mg/L	1	---	21.3	---	---	0.6	10%	
Matrix Spike (25C0394-MS1)			Prepared: 03/11/25 08:34		Analyzed: 03/11/25 12:57							
QC Source Sample: Non-SDG (A5C1180-02)												
EPA 300.0												
Sulfate	54.7	---	1.25	mg/L	1	10.0	45.2	95	88-115%	---	---	E
Matrix Spike (25C0394-MS2)			Prepared: 03/11/25 08:34		Analyzed: 03/12/25 00:26							
QC Source Sample: Non-SDG (A5C1120-02RE1)												
EPA 300.0												
Sulfate	30.8	---	1.25	mg/L	1	10.0	21.3	96	88-115%	---	---	

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SAMPLE PREPARATION INFORMATION

Organochlorine Pesticides by EPA 8081B

Prep: EPA 3510C (Neutral pH)/3640A (GPC)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25C0849							
A5C1099-01RE1	Water	EPA 8081B	03/06/25 13:50	03/13/25 11:18	970mL/10mL	1000mL/5mL	2.06
A5C1099-02RE1	Water	EPA 8081B	03/06/25 13:00	03/13/25 11:18	1020mL/10mL	1000mL/5mL	1.96
A5C1099-03RE1	Water	EPA 8081B	03/06/25 14:15	03/13/25 11:18	1020mL/10mL	1000mL/5mL	1.96
A5C1099-04RE1	Water	EPA 8081B	03/06/25 16:16	03/13/25 11:18	730mL/10mL	1000mL/5mL	2.74

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Prep: EPA 3511 (Bottle Extraction)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25C0329							
A5C1099-01RE1	Water	EPA 8270E LVI	03/06/25 13:50	03/10/25 06:54	96.87mL/5mL	125mL/5mL	1.29
A5C1099-02	Water	EPA 8270E LVI	03/06/25 13:00	03/10/25 06:54	105.46mL/5mL	125mL/5mL	1.19
A5C1099-03	Water	EPA 8270E LVI	03/06/25 14:15	03/10/25 06:54	88.77mL/5mL	125mL/5mL	1.41
Batch: 25C0446							
A5C1099-04RE1	Water	EPA 8270E LVI	03/06/25 16:16	03/12/25 08:09	94.54mL/5mL	125mL/5mL	1.32
A5C1099-04RE2	Water	EPA 8270E LVI	03/06/25 16:16	03/12/25 08:09	94.54mL/5mL	125mL/5mL	1.32

Total Metals by EPA 6020B (ICPMS)

Prep: EPA 3015A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25C0929							
A5C1099-01	Water	EPA 6020B	03/06/25 13:50	03/24/25 09:01	45mL/50mL	45mL/50mL	1.00
A5C1099-02	Water	EPA 6020B	03/06/25 13:00	03/24/25 09:01	45mL/50mL	45mL/50mL	1.00
A5C1099-02RE1	Water	EPA 6020B	03/06/25 13:00	03/24/25 09:01	45mL/50mL	45mL/50mL	1.00
A5C1099-03	Water	EPA 6020B	03/06/25 14:15	03/24/25 09:01	45mL/50mL	45mL/50mL	1.00
A5C1099-04	Water	EPA 6020B	03/06/25 16:16	03/24/25 09:01	45mL/50mL	45mL/50mL	1.00

Dissolved Metals by EPA 6020B (ICPMS)

Prep: Matrix Matched Direct Inject

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25C0902							
A5C1099-01	Water	EPA 6020B (Diss)	03/06/25 13:50	03/22/25 13:23	45mL/50mL	45mL/50mL	1.00
A5C1099-02	Water	EPA 6020B (Diss)	03/06/25 13:00	03/22/25 13:23	45mL/50mL	45mL/50mL	1.00
A5C1099-02RE1	Water	EPA 6020B (Diss)	03/06/25 13:00	03/22/25 13:23	45mL/50mL	45mL/50mL	1.00

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SAMPLE PREPARATION INFORMATION

Dissolved Metals by EPA 6020B (ICPMS)

Prep: Matrix Matched Direct Inject

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A5C1099-03	Water	EPA 6020B (Diss)	03/06/25 14:15	03/22/25 13:23	45mL/50mL	45mL/50mL	1.00
A5C1099-04	Water	EPA 6020B (Diss)	03/06/25 16:16	03/22/25 13:23	45mL/50mL	45mL/50mL	1.00

Anions by Ion Chromatography

Prep: Method Prep: Aq

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25C0284							
A5C1099-01	Water	EPA 300.0	03/06/25 13:50	03/07/25 08:25	5mL/5mL	5mL/5mL	1.00
A5C1099-02	Water	EPA 300.0	03/06/25 13:00	03/07/25 08:25	5mL/5mL	5mL/5mL	1.00
A5C1099-03	Water	EPA 300.0	03/06/25 14:15	03/07/25 08:25	5mL/5mL	5mL/5mL	1.00
A5C1099-04	Water	EPA 300.0	03/06/25 16:16	03/07/25 08:25	5mL/5mL	5mL/5mL	1.00
Batch: 25C0394							
A5C1099-01RE1	Water	EPA 300.0	03/06/25 13:50	03/11/25 08:34	5mL/5mL	5mL/5mL	1.00

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QUALIFIER DEFINITIONS

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

Apex Laboratories

C-05	Extract has undergone a GPC (Gel-Permeation Chromatography) cleanup per EPA 3640A. Reporting levels may be raised due to dilution necessary for cleanup. Sample Final Volume includes the GPC dilution factor, see the Prep page for details.
DCNT	Sample decanted due to the presence of sediment in water samples, or water in sediment or soil samples. (Note: Decanted aqueous sample bottles are not solvent rinsed.)
E	Estimated Value. The result is above the calibration range of the instrument.
J	Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified DL.
M-05	Estimated results. Peak separation for structural isomers is insufficient for accurate quantification.
Q-03	Spike recovery and/or RPD is outside control limits due to the high concentration of analyte present in the sample.
Q-04	Spike recovery and/or RPD is outside control limits due to a non-homogeneous sample matrix.
Q-16	Reanalysis of an original Batch QC sample.
Q-19	Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis.
Q-65	Spike recovery is estimated due to the high analyte concentration of the source sample.
R-02	The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
R-03	Elevated Reporting Limits due to limited sample volume.
S-01	Surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference.
S-05	Surrogate recovery is estimated due to sample dilution required for high analyte concentration and/or matrix interference.

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ANALYTICAL REPORT

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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)

Validated 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 and Detection Limits: Default Limits

Default Reporting and Detection Limits are based on 100% dry weight with the minimum dilution for the analysis. Reporting and Detection Limits are raised due to moisture content, additional dilutions required for analysis, matrix interferences and in other cases, as necessary.

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 one half of the Reporting Limit (RL).
Blank results for gravimetric analyses are evaluated to the Reporting Level, not to half of the Reporting Level.
-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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Decanted Samples:

Soils/Sediments:
Unless TCLP analysis is required or there is notification otherwise for a specific project, all Soil and Sediments containing excess water are decanted prior to analysis in order to provide the most representative sample for analysis.

Water Samples:
Water samples containing solids and sediment may need to be decanted in order to eliminate these particulates from the water extractions. In the case of organics extractions, a solvent rinse of the container will not be performed.

Volatiles Soils (5035s)
Samples that are field preserved by 5035 for volatiles are dry weight corrected using the same dry weight corretion as for normal analyses. In the case of decanted samples, the dry weight may be performed on a decanted sample, while the aliquot for 5035 may not have been treated the same way. If this is a concern, please submit separate containers for dry weight analysis for volatiles can be provided.

All samples decanted in the laboratory are noted in this report with the DCNT qualifier indicating the sample was decanted.

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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

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

Secondary Accreditations

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

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.
Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

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

Apex Laboratories

Darrell Auvil, Client Services Manager

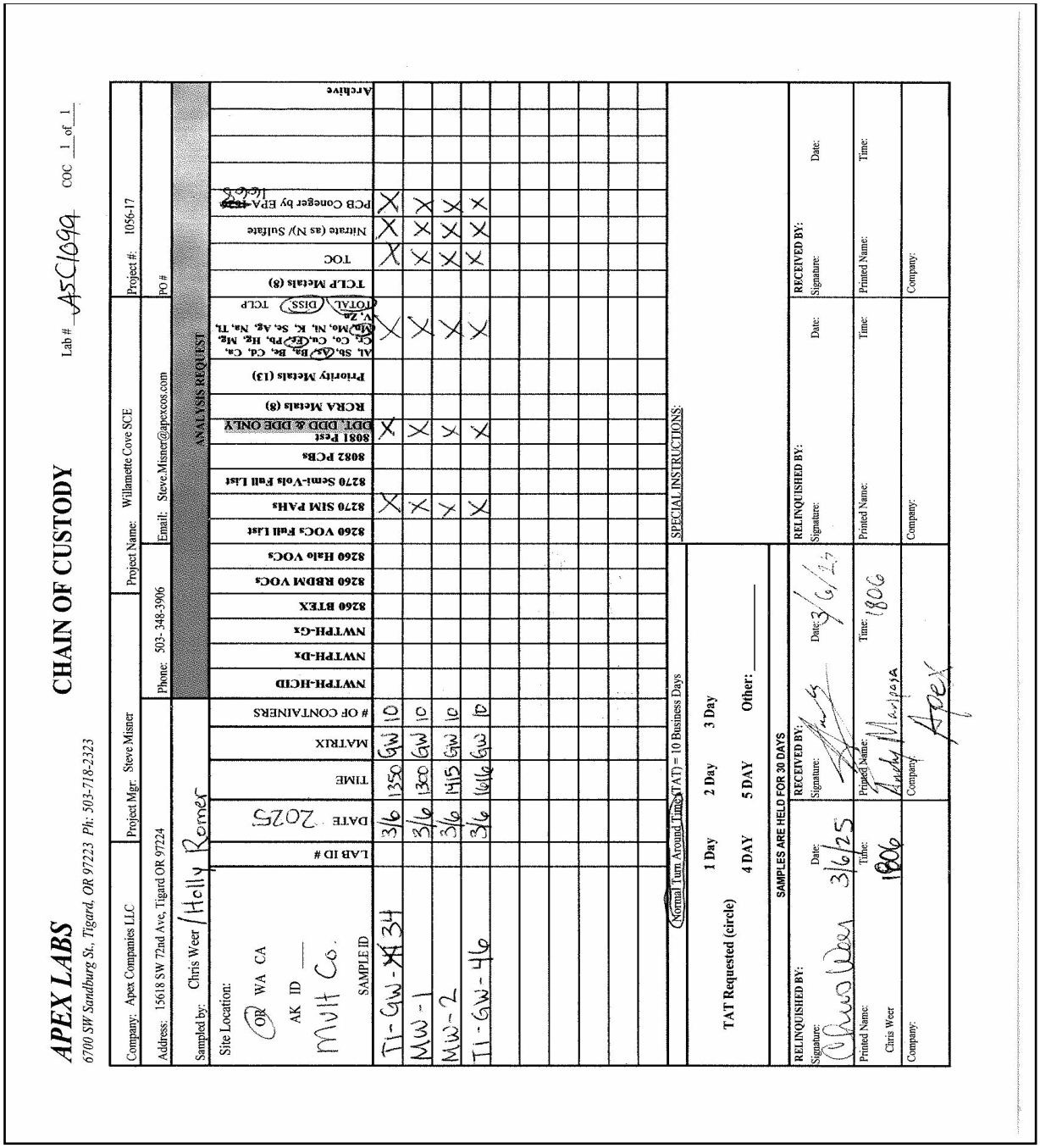
The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

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

ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1099 - 05 29 25 1602**



APEX LABS — **CHAIN OF CUSTODY** — Lab # A5C1099 — COC 1 of 1

6700 SW Sandburg St., Tigard, OR 97223 Ph: 503-718-2323

Company: Apex Companies LLC | Project Mgr: Steve Misner | Project Name: Willamette Cove SCE | Project #: 1056-17

Address: 15618 SW 72nd Ave, Tigard OR 97224 | Phone: 503- 348-3906 | Email: Steve.Misner@apexcos.com | PO #

Sampled by: Chris Weer / Holly Romer

Site Location: OR WA CA AK ID — Mult Co.

ANALYSIS REQUEST

SAMPLE ID	LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID	NWTPH-Dx	NWTPH-Gx	8260 BTEX	8260 RBDM VOCs	8260 Halo VOCs	8260 VOCs Full List	8270 SIM PAHs	8270 Semi-Vols Full List	8082 PCBs	8081 Pest DDT, DDD & DDE ONLY	RCRA Metals (8)	Priority Metals (13)	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Hg, Mg, Mo, Ni, K, Se, Ag, Na, Tl, V, Zn TOTAL DISS TCLP	TCLP Metals (8)	TOC	Nitrate (as N)/ Sulfate	PCB Congeer by EPA 1668 Icedos	Archive
TI-GW-XF34		3/6	1350	GW	10								X			X					X	X	
MW-1		3/6	1300	GW	10								X			X					X	X	
MW-2		3/6	1415	GW	10								X			X					X	X	
TI-GW-46		3/6	1616	GW	10								X			X					X	X	

SPECIAL INSTRUCTIONS:

(Normal Turn Around Time (TAT) = 10 Business Days)

TAT Requested (circle): 1 Day 2 Day 3 Day 4 DAY 5 DAY Other: ____

SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature:	Signature:	Signature:	Signature:
Date: 3/6/25	Date: 3/6/25	Date:	Date:
Printed Name: Chris Weer	Printed Name: Holly Romer	Printed Name:	Printed Name:
Time: 1800	Time: 1800	Time:	Time:
Company:	Company: Apex	Company:	Company:

Apex Laboratories

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Darrell Auvil, Client Services Manager

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

Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1099 - 05 29 25 1602**

APEX LABS COOLER RECEIPT FORM

Client: Apex Companies LLC Element WO#: A5C1099

Project/Project #: Willamette Cove SCE / 1056-17

Delivery Info:

Date/time received: 3/6/25 @ 1806 By: AJM

Delivered by: Apex ✓ Client ESS FedEx UPS Radio Morgan SDS Evergreen Other

From USDA Regulated Origin? Yes ____ No ✓

Cooler Inspection Date/time inspected: 3/6/25 @ 1808 By: AJM

Chain of Custody included? Yes ✓ No ____

Signed/dated by client? Yes ✓ No ____

Contains USDA Reg. Soils? Yes ____ No ✓ Unsure (email RegSoils) ____

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	4.7						
Custody seals? (Y/N)	N						
Received on ice? (Y/N)	Y						
Temp. blanks? (Y/N)	Y						
Ice type: (Gel/Real/Other)	Real						
Condition (In/Out):	In						

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: 3/6/25 @ 1900 By: JA

All samples intact? Yes ✓ No ___ Comments: ____

Bottle labels/COCs agree? Yes ✓ No ___ Comments: ____

COC/container discrepancies form initiated? Yes ___ No ✓

Containers/volumes received appropriate for analysis? Yes ✓ No ___ Comments: MW-2 has strong odor

Do VOA vials have visible headspace? Yes ✓ No ___ NA ✓

Comments JA 316125

Water samples: pH checked: Yes ✓ No ___ NA ___ pH appropriate? Yes ✓ No ___ NA ___ pH ID: ~~PH~~ A23172 JA 316125

Comments: ____

Labeled by: JA Witness: KM Cooler Inspected by: JA

Form Y-003 R-02

Apex Laboratories

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Darrell Auvil, Client Services Manager

CERES Analytical Laboratory, Inc.
4919 Windplay Dr. Suite 1, El Dorado Hills, CA 95762

March 25, 2025 Ceres ID: 19264

Apex Laboratories
6700 S.W. Sandburg Street
Tigard, OR 97223

The following report contains the results for the four aqueous samples received on March 12, 2025. These samples were analyzed for congener PCBs by EPA method 1668C. Standard 3-week turn-around time was provided for this work.

This work was authorized under Apex Laboratories' Project # A5C1099.

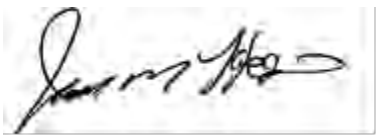
Due to the large amount of sediment in Ceres ID: 19264-004; Sample ID: (T1-GW-46) the aqueous portion of the sample was decanted and used for the extraction and analysis.

Continuing Calibration Verification (CCV) Requirements
All associated calibration verification standard(s) (CCV) met the acceptance criteria.

The report consists of a Cover Letter, Sample Inventory (Section I), Data Summary (Section II), Sample Tracking (Section VI), and Qualifiers/Abbreviations (Section VII). Raw Data (Section III), Continuing Calibration (Section IV), and Initial Calibration (Section V) are available in a full report (.pdf format) upon request.

If you have any questions regarding this report, please feel free to contact me at (916)932-5011.

Sincerely,



James M. Hedin
Director of Operations/CEO
jhedin@ceres-lab.com

Section I: Sample Inventory

Ceres Sample ID:	Sample ID	Date Received	Collection Date	&Time
19264-001	T1-GW-34	3/12/2025	3/6/2025	13:50
19264-002	MW-1	3/12/2025	3/6/2025	13:00
19264-003	MW-2	3/12/2025	3/6/2025	14:15
19264-004	T1-GW-46	3/12/2025	3/6/2025	16:16

Section II: Data Summary

Sample ID: Method Blank

	Ceres ID:	0-3448-MB		**Date Received:**	NA
Project ID:	A5C1099	**QC Batch #:**	3448	**Date Extracted:**	20-Mar-25
Matrix:	Aqueous	**Sample Size:**	1.000 L	**Analyzed Date:**	23-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2-MoCB	1	ND		20.0	2.08
3-MoCB	2	ND		20.0	3.49
4-MoCB	3	ND		20.0	3.49
2,2'-/2,6-DiCB	4/10	ND		20.0	8.07
2,4-/2,5-DiCB	7/9	ND		20.0	8.07
2,3'-DiCB	6	ND		20.0	8.07
2,3-/2,4'-DiCB	5/8	ND		20.0	8.07
3,5-DiCB	14	ND		20.0	8.31
3,3'-DiCB	11	ND		20.0	8.31
3,4-/3,4'-DiCB	12/13	ND		20.0	8.31
4,4'-DiCB	15	ND		20.0	8.31
2,2',6-TrCB	19	ND		20.0	4.97
2,4,6-TrCB	30	ND		20.0	4.97
2,2',5-TrCB	18	ND		20.0	4.97
2,2',4-TrCB	17	ND		20.0	4.97
2,3,6-/2,3',6-TrCB	24/27	ND		20.0	4.97
2,2',3-/2,4',6-TrCB	16/32	ND		20.0	4.97
2',3,5-TrCB	34	ND		20.0	5.86
2,3,5-TrCB	23	ND		20.0	5.86
2,4,5-TrCB	29	ND		20.0	5.86
2,3',5-TrCB	26	ND		20.0	5.86
2,3',4-TrCB	25	ND		20.0	5.86
2,4',5-TrCB	31	ND		20.0	5.86
2,4,4'-TrCB	28	ND		20.0	5.86
2,3,3'-/2,3,4-/2',3,4-TrCB	20/21/33	ND		20.0	5.86
2,3,4'-TrCB	22	ND		20.0	5.86
3,3',5-TrCB	36	ND		20.0	5.86
3,4',5-TrCB	39	ND		20.0	5.86
3,4,5-TrCB	38	ND		20.0	5.86
3,3',4-TrCB	35	ND		20.0	5.86
3,4,4'-TrCB	37	ND		20.0	5.86
2,2',6,6'-TeCB	54	ND		20.0	3.75
2,2',4,6-TeCB	50	ND		20.0	3.75
2,2',5,6'-TeCB	53	ND		20.0	3.75
2,2',4,6'-TeCB	51	ND		20.0	3.75
2,2',3,6-TeCB	45	ND		20.0	3.75
2,2',3,6'-TeCB	46	ND		20.0	3.75
2,2',5,5'-/2,3',4,6-TeCB	52/69	ND		20.0	3.75
2,3',5',6-TeCB	73	ND		20.0	3.75
2,2',3-5-/2,2',4,5'-TeCB	43/49	ND		20.0	3.75
2,2',4,4'-TeCB	47	ND		20.0	3.75
2,2',4,5-/2,4,4',6-TeCB	48/75	ND		20.0	3.75
2,3,5,6-TeCB	65	ND		20.0	3.75
2,3,4,6-TeCB	62	ND		20.0	3.75

Sample ID: Method Blank

		Ceres ID:	0-3448-MB	**Date Received:**	NA
Project:	A5C1099	**QC Batch #:**	3448	**Date Extracted:**	20-Mar-25
Matrix:	Aqueous	**Sample Size:**	1.000 L	**Analyzed Date:**	23-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2,2',3,5'-TeCB	44	ND		20.0	3.75
2,2',3,4'-/2,3,3',6-TeCB	42/59	ND		20.0	3.75
2,2',3,4-/2,3,4',6-/2,3',4',6-/2,3',5,5'-TeCB	41/64/71/72	ND		20.0	3.75
2,3',4,5'-TeCB	68	ND		20.0	3.75
2,2',3,3'-TeCB	40	ND		20.0	3.75
2,3,3',5-TeCB	57	ND		20.0	3.75
2,3',4,5-TeCB	67	ND		20.0	3.75
2,3,3',5'-TeCB	58	ND		20.0	3.75
2,3,4',5-TeCB	63	ND		20.0	3.75
2,4,4',5-TeCB	74	ND		20.0	3.75
2,3,4,5-/2,3',4',5-TeCB	61/70	ND		20.0	3.75
2,3',4,4'-/2',3,4,5-TeCB	66/76	ND		20.0	3.75
3,3',5,5'-TeCB	80	ND		20.0	3.75
2,3,3',4-TeCB	55	ND		20.0	3.75
2,3,3',4'-/2,3,4,4'-TeCB	56/60	ND		20.0	3.59
3,3',4,5'-TeCB	79	ND		20.0	3.59
3,3',4,5-TeCB	78	ND		20.0	3.59
3,4,4',5-TeCB	81	ND		20.0	3.59
3,3',4,4'-TeCB	77	ND		20.0	5.22
2,2',4,6,6'-PeCB	104	ND		20.0	4.75
2,2',3,6,6'-PeCB	96	ND		20.0	4.75
2,2',4,5'6-PeCB	103	ND		20.0	4.75
2,2',4,4',6-PeCB	100	ND		20.0	4.75
2,2',3,5,6'-PeCB	94	ND		20.0	4.75
2,2',3,5,6-/2,2',3,5',6-/2,2',3',4,6-/2,2',4,5,6'-PeCB	93/95/98/102	ND		20.0	4.75
2,2',3,4,6-PeCB	88/91	ND		20.0	4.75
2,3',4,5',6-PeCB	121	ND		20.0	4.75
2,2',3,3',6-/2,2',3,5,5'-PeCB	84/92	ND		20.0	3.46
2,2',3,4,6'-PeCB	89	ND		20.0	3.46
2,2',3,4',5-/2,2',4,5,5'-PeCB	90/101	ND		20.0	3.46
2,3,3',5',6-PeCB	113	ND		20.0	3.46
2,2',4,4',5-PeCB	99	ND		20.0	3.46
2,2',3,3',5-PeCB	83	ND		20.0	3.46
2,3,3',5,6-/2,3',4,4',6-PeCB	112/119	ND		20.0	3.46
2,3,3',4,6-PeCB	109	ND		20.0	3.46
2,2',3',4,5-PeCB	97	ND		20.0	3.46
2,2',3,4,5-PeCB	86	ND		20.0	3.46
2,2',3,4,5'-/2,3,4',5,6-/2',3,4,5,6'-PeCB	87/117/125	ND		20.0	3.46
2,3,3',5,5'-/2,3,4,4',6-PeCB	111/115	ND		20.0	3.46
2,2',3,4,4'-/2,3,4,5,6-PeCB	85/116	ND		20.0	3.46
2,3',4,5,5'-PeCB	120	ND		20.0	3.46
2-3,3',4',6-PeCB	110	ND		20.0	3.46

Sample ID: Method Blank

		Ceres ID:	0-3448-MB		**Date Received:**	NA
Project:	A5C1099	**QC Batch #:**	3448		**Date Extracted:**	20-Mar-25
Matrix:	Aqueous	**Sample Size:**	1.000	L	**Analyzed Date:**	23-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2,2',3,3',4-PeCB	82	ND		20.0	3.46
2',3,4,5,5'-PeCB	124	ND		20.0	3.46
2,3,3',4',5-/2,3,3',4,5'-PeCB	107/108	ND		20.0	3.46
2,3',4,4',5'-PeCB	123	ND		20.0	3.46
2,3,3',4,5-/2,3',4,4',5-PeCB	106/118	ND		20.0	5.58
2,3,4,4',5-PeCB	114	ND		20.0	3.25
2',3,3',4,5-PeCB	122	ND		20.0	3.25
2,3,3',4,4'-PeCB	105	ND		20.0	4.87
3,3',4,5,5'-PeCB	127	ND		20.0	4.87
3,3',4,4',5-PeCB	126	ND		20.0	5.73
2,2',4,4',6,6'-HxCB	155	ND		20.0	4.86
2,2',3,4',6,6'-HxCB	150	ND		20.0	4.86
2,2',3,5,6,6'-HxCB	152	ND		20.0	4.86
2,2',3,4,6,6'-HxCB	145	ND		20.0	4.86
2,2',3,3',6,6'-HxCB	136	ND		20.0	4.86
2,2',3,4',5,6'-HxCB	148	ND		20.0	4.86
2,2',4,4',5',6-HxCB	154	ND		20.0	4.86
2,2',3,5,5',6-HxCB	151	ND		20.0	4.86
2,2',3,3',5,6'-HxCB	135	ND		20.0	4.86
2,2',3,4,5',6-HxCB	144	ND		20.0	4.86
2,2',3,4',5,6-HxCB	147	ND		20.0	4.86
2,2',3,4,4',6-/2,2',3,4',5',6-HxCB	139/149	ND		20.0	4.86
2,2',3,4,4',6'-HxCB	140	ND		20.0	4.86
2,2',3,3',5,6-/2,2',3,4,5,6'-HxCB	134/143	ND		20.0	5.19
2,2',3,3',4,6-/2,2',3,4,5,6-HxCB	131/142	ND		20.0	5.19
2,2',3,3',5,5'-HxCB	133	ND		20.0	5.19
2,2',3,3',4,6'-/2,2',3,4',5,5'-HxCB	132/146	ND		20.0	5.19
2,3,3',4,5',6-/2,3,3',5,5',6-HxCB	161/165	ND		20.0	5.19
2,2',4,4',5,5'-HxCB	153	ND		20.0	5.19
2,3',4,4',5',6-HxCB	168	ND		20.0	5.19
2,2',3,4,5,5'-HxCB	141	ND		20.0	5.19
2,2',3,4,4',5-HxCB	137	ND		20.0	5.19
2,2',3,3',4,5'-HxCB	130	ND		20.0	5.19
2,2',3,4,4',5-/2,3,3',4',5,6-/2,3,3',4',5',6-HxCB	138/163/164	ND		20.0	5.19
2,3,3',4,4',6-/2,3,3',4,5,6-HxCB	158/160	ND		20.0	5.19
2,2',3,3',4,5-HxCB	129	ND		20.0	5.19
2,3,4,4',5,6-HxCB	166	ND		20.0	5.19
2,3,3',4,5,5'-HxCB	159	ND		20.0	5.19
2,2',3,3',4,4'-/2,3,3',4',5,5'-HxCB	128/162	ND		20.0	5.19
2,3',4,4',5,5'-HxCB	167	ND		20.0	5.19
2,3,3',4,4',5-HxCB	156	ND		20.0	4.13
2,3,3',4,4',5'-HxCB	157	ND		20.0	6.07
3,3',4,4',5,5'-HxCB	169	ND		20.0	5.20

Sample ID: Method Blank

		Ceres ID:	0-3448-MB		**Date Received:**	NA
Project:	A5C1099	**QC Batch #:**	3448		**Date Extracted:**	20-Mar-25
Matrix:	Aqueous	**Sample Size:**	1.000	L	**Analyzed Date:**	23-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2,2',3,4',5,6,6'-HpCB	188	ND		20.0	5.69
2,2',3,4,4',6,6'-HpCB	184	ND		20.0	5.69
2,2',3,3',5,6,6'-HpCB	179	ND		20.0	5.69
2,2',3,3',4,6,6'-HpCB	176	ND		20.0	5.69
2,2',3,4,5,6,6'-HpCB	186	ND		20.0	5.69
2,2',3,3',5,5',6-HpCB	178	ND		20.0	5.69
2,2',3,3',4,5',6-HpCB	175	ND		20.0	5.69
2,2',3,4,4',5,6'-/2,2',3,4',5,5',6-HpCB	182/187	ND		20.0	5.69
2,2',3,4,4',5',6-HpCB	183	ND		20.0	5.69
2,2',3,4,5,5',6-HpCB	185	ND		20.0	3.69
2,2',3,3',4,5,6'-HpCB	174	ND		20.0	3.69
2,2',3,4,4',5,6-HpCB	181	ND		20.0	3.69
2,2',3,3',4',5,6-HpCB	177	ND		20.0	3.69
2,2',3,3',4,4',6-HpCB	171	ND		20.0	3.69
2,2',3,3',4,5,6-HpCB	173	ND		20.0	3.69
2,2',3,3',4,5,5'-HpCB	172	ND		20.0	3.69
2,3,3',4,5,5',6-HpCB	192	ND		20.0	3.69
2,2',3,4,4',5,5'-HpCB	180	ND		20.0	3.69
2,3,3',4',5,5',6-HpCB	193	ND		20.0	3.69
2,3,3',4,4',5',6-HpCB	191	ND		20.0	3.69
2,2',3,3',4,4',5-HpCB	170	ND		20.0	3.69
2,3,3',4,4',5,6-HpCB	190	ND		20.0	3.69
2,3,3',4,4',5,5'-HpCB	189	ND		20.0	3.69
2,2',3,3',5,5',6,6'-OcCB	202	ND		20.0	4.31
2,2',3,3',4,5',6,6'-OcCB	201	ND		20.0	4.31
2,2',3,4,4',5,6,6'-OcCB	204	ND		20.0	4.31
2,2',3,3',4,4',6,6'-OcCB	197	ND		20.0	4.31
2,2',3,3',4,5,6,6'-OcCB	200	ND		20.0	4.31
2,2',3,3',4,5,5',6-OcCB	198	ND		20.0	4.31
2,2',3,3',4,5,5',6'-OcCB	199	ND		20.0	4.31
2,2',3,3',4,4',5,6'-/2,2',3,4,4',5,5',6-OcCB	196/203	ND		20.0	4.31
2,2',3,3',4,4',5,6-OcCB	195	ND		20.0	7.16
2,2',3,3',4,4',5,5'-OcCB	194	ND		20.0	7.16
2,3,3',4,4',5,5',6-OcCB	205	ND		20.0	7.16
2,2',3,3',4,5,5',6,6'-NoCB	208	ND		20.0	3.75
2,2',3,3',4,4',5,6,6'-NoCB	207	ND		20.0	3.75
2,2',3,3',4,4',5,5',6-NoCB	206	ND		20.0	5.61
Decachlorobiphenyl	209	ND		20.0	4.14

Sample ID: Method Blank

		Ceres ID:	0-3448-MB	**Date Received:**	NA
Project:	A5C1099	**QC Batch #:**	3448	**Date Extracted:**	20-Mar-25
Matrix:	Aqueous	**Sample Size:**	1.000 L	**Analyzed Date:**	23-Mar-25

Totals	**Chlorination Level**	**Conc. (pg/L)**	**Qual.**	**RL**
Monochlorobiphenyl	MoCB	0		20.0
Dichlorobiphenyl	DiCB	0		20.0
Trichlorobiphenyl	TrCB	0		20.0
Tetrachlorobiphenyl	TeCB	0		20.0
Pentachlorobiphenyl	PeCB	0		20.0
Hexachlorobiphenyl	HxCB	0		20.0
Heptachlorobiphenyl	HpCB	0		20.0
Octachlorobiphenyl	OcCB	0		20.0
Nonachlorobiphenyl	NoCB	0		20.0
Decachlorobiphenyl	DeCB	ND		20.0

Labeled Standards	**Congener #**	**% Rec.**	**Limits**
$^{13}C_{12}$-2-MoCB	1	129	5-145
$^{13}C_{12}$-4-MoCB	3	109	5-145
$^{13}C_{12}$-2,2'-DiCB	4	109	5-145
$^{13}C_{12}$-4,4'-DiCB	15	78.3	5-145
$^{13}C_{12}$-2,2',6-TrCB	19	105	5-145
$^{13}C_{12}$-3,4,4'-TrCB	37	34.4	5-145
$^{13}C_{12}$-2,2',6,6'-TeCB	54	58.9	5-145
$^{13}C_{12}$-3,4,4',5-TeCB	81	98.4	10-145
$^{13}C_{12}$-3,3',4,4'-TeCB	77	99.1	10-145
$^{13}C_{12}$-2,2',4,6,6'-PeCB	104	76.8	10-145
$^{13}C_{12}$-2,3',4,4',5'-PeCB	123	100	10-145
$^{13}C_{12}$-2,3',4,4',5-PeCB	118	102	10-145
$^{13}C_{12}$-2,3,4,4',5-PeCB	114	88.6	10-145
$^{13}C_{12}$-2,3,3',4,4'-PeCB	105	94.5	10-145
$^{13}C_{12}$-3,3',4,4',5-PeCB	126	90.5	10-145
$^{13}C_{12}$-2,2',4,4',6,6'-HxCB	155	119	10-145
$^{13}C_{12}$-2,3',4,4',5,5'-HxCB	167	98.4	10-145
$^{13}C_{12}$-2,3,3',4,4',5-HxCB	156	89.8	10-145
$^{13}C_{12}$-2,3,3',4,4',5'-HxCB	157	103	10-145
$^{13}C_{12}$-3,3',4,4',5,5'-HxCB	169	104	10-145
$^{13}C_{12}$-2,2',3,4',5,6,6'-HpCB	188	93.5	10-145
$^{13}C_{12}$-2,3,3',4,4',5,5'-HpCB	189	104	10-145
$^{13}C_{12}$-2,2',3,3',5,5',6,6'-OcCB	202	126	10-145
$^{13}C_{12}$-2,3,3',4,4',5,5',6-OcCB	205	94.3	10-145
$^{13}C_{12}$-2,2',3,3',4,5,5',6,6'-NoCB	208	99.7	10-145
$^{13}C_{12}$-2,2',3,3',4,4',5,5',6-NoCB	206	113	10-145
$^{13}C_{12}$-Decachlorobiphenyl	209	100	10-145
Cleanup Standards			
$^{13}C_{12}$-2,4,4'-TrCB	28	43.7	5-145
$^{13}C_{12}$-2,3,3',5,5'-PeCB	111	111	10-145
$^{13}C_{12}$-2,2',3,3',5,5',6-HpCB	178	104	10-145

Sample ID: **Ongoing Precision and Recovery (OPR)**

		Ceres ID:	0-3448-OPR	**Date Received:**	NA
Project:	A5C1099	**QC Batch #:**	3448	**Date Extracted:**	20-Mar-25
Matrix:	Aqueous	**Sample Size:**	1.000 L	**Analyzed Date:**	23-Mar-25

Analyte	**Congener #**	**Units**	**Conc. Found**	**Limits**
2-MoCB	1	ng/mL	32.6	30-67.5
4-MoCB	3	ng/mL	36.2	30-67.5
2,2'-/2,6-DiCB	4/10	ng/mL	87.1	60-135
4,4'-DiCB	15	ng/mL	39.7	30-67.5
2,2',6-TrCB	19	ng/mL	44.6	30-67.5
3,4,4'-TrCB	37	ng/mL	33.6	30-67.5
2,2',6,6'-TeCB	54	ng/mL	56.8	30-67.5
3,4,4',5-TeCB	81	ng/mL	39.1	30-67.5
3,3',4,4'-TeCB	77	ng/mL	44.9	30-67.5
2,2',4,6,6'-PeCB	104	ng/mL	42.5	30-67.5
2,3',4,4',5'-PeCB	123	ng/mL	43.5	30-67.5
2,3,3',4,5-/2,3',4,4',5-PeCB	106/118	ng/mL	83.9	60-135
2,3,4,4',5-PeCB	114	ng/mL	42.7	30-67.5
2,3,3',4,4'-PeCB	105	ng/mL	46.5	30-67.5
3,3',4,4',5-PeCB	126	ng/mL	46.2	30-67.5
2,2',4,4',6,6'-HxCB	155	ng/mL	45.1	30-67.5
2,3',4,4',5,5'-HxCB	167	ng/mL	42.5	30-67.5
2,3,3',4,4',5-HxCB	156	ng/mL	42.4	30-67.5
2,3,3',4,4',5'-HxCB	157	ng/mL	45.5	30-67.5
3,3',4,4',5,5'-HxCB	169	ng/mL	42.0	30-67.5
2,2',3,4',5,6,6'-HpCB	188	ng/mL	43.6	30-67.5
2,3,3',4,4',5,5'-HpCB	189	ng/mL	47.5	30-67.5
2,2',3,3',5,5',6,6'-OcCB	202	ng/mL	42.7	30-67.5
2,3,3',4,4',5,5',6-OcCB	205	ng/mL	46.5	30-67.5
2,2',3,3',4,5,5',6,6'-NoCB	208	ng/mL	43.8	30-67.5
2,2',3,3',4,4',5,5',6-NoCB	206	ng/mL	42.5	30-67.5
Decachlorobiphenyl	209	ng/mL	42.7	30-67.5

Sample ID: **Ongoing Precision and Recovery (OPR)**

		Ceres ID:	0-3448-OPR	**Date Received:**	NA
Project:	A5C1099	**QC Batch #:**	3448	**Date Extracted:**	20-Mar-25
Matrix:	Aqueous	**Sample Size:**	1.000 L	**Analyzed Date:**	23-Mar-25

Labeled Standards	**Congener #**	**Units**		**Limits**
$^{13}C_{12}$-2-MoCB	1	%	106	15-145
$^{13}C_{12}$-4-MoCB	3	%	84.5	15-145
$^{13}C_{12}$-2,2'-DiCB	4	%	114	15-145
$^{13}C_{12}$-4,4'-DiCB	15	%	88.8	15-145
$^{13}C_{12}$-2,2',6-TrCB	19	%	95.5	15-145
$^{13}C_{12}$-3,4,4'-TrCB	37	%	45.9	15-145
$^{13}C_{12}$-2,2',6,6'-TeCB	54	%	65.6	15-145
$^{13}C_{12}$-3,4,4',5-TeCB	81	%	103	40-145
$^{13}C_{12}$-3,3',4,4'-TeCB	77	%	105	40-145
$^{13}C_{12}$-2,2',4,6,6'-PeCB	104	%	87.3	40-145
$^{13}C_{12}$-2,3',4,4',5'-PeCB	123	%	106	40-145
$^{13}C_{12}$-2,3',4,4',5-PeCB	118	%	108	40-145
$^{13}C_{12}$-2,3,4,4',5-PeCB	114	%	89.4	40-145
$^{13}C_{12}$-2,3,3',4,4'-PeCB	105	%	88.4	40-145
$^{13}C_{12}$-3,3',4,4',5-PeCB	126	%	84.5	40-145
$^{13}C_{12}$-2,2',4,4',6,6'-HxCB	155	%	111	40-145
$^{13}C_{12}$-2,3',4,4',5,5'-HxCB	167	%	108	40-145
$^{13}C_{12}$-2,3,3',4,4',5-HxCB	156	%	110	40-145
$^{13}C_{12}$-2,3,3',4,4',5'-HxCB	157	%	110	40-145
$^{13}C_{12}$-3,3',4,4',5,5'-HxCB	169	%	108	40-145
$^{13}C_{12}$-2,2',3,4',5,6,6'-HpCB	188	%	97.4	40-145
$^{13}C_{12}$-2,3,3',4,4',5,5'-HpCB	189	%	102	40-145
$^{13}C_{12}$-2,2',3,3',5,5',6,6'-OcCB	202	%	104	40-145
$^{13}C_{12}$-2,3,3',4,4',5,5',6-OcCB	205	%	96.6	40-145
$^{13}C_{12}$-2,2',3,3',4,5,5',6,6'-NoCB	208	%	107	40-145
$^{13}C_{12}$-2,2',3,3',4,4',5,5',6-NoCB	206	%	116	40-145
$^{13}C_{12}$-Decachlorobiphenyl	209	%	89.7	40-145
Cleanup Standards				
$^{13}C_{12}$-2,4,4'-TrCB	28	%	49.2	15-145
$^{13}C_{12}$-2,3,3',5,5'-PeCB	111	%	112	40-145
$^{13}C_{12}$-2,2',3,3',5,5',6-HpCB	178	%	103	40-145

Sample ID: T1-GW-34

Project ID:	A5C1099	**Ceres ID:**	19264-001	**Date Received:**	3/12/2025
Matrix:	Aqueous	**QC Batch #:**	3448	**Date Extracted:**	3/20/2025
Date & Time Sampled:	3/6/2025 13:50	**Sample Size:**	1.027 L	**Analyzed Date:**	3/23/2025

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2-MoCB	1	ND		19.5	2.08
3-MoCB	2	ND		19.5	3.49
4-MoCB	3	ND		19.5	3.49
2,2'-/2,6-DiCB	4/10	ND		19.5	8.07
2,4-/2,5-DiCB	7/9	ND		19.5	8.07
2,3'-DiCB	6	68.0		19.5	8.07
2,3-/2,4'-DiCB	5/8	288		19.5	8.07
3,5-DiCB	14	ND		19.5	8.31
3,3'-DiCB	11	1500		19.5	8.31
3,4-/3,4'-DiCB	12/13	ND		19.5	8.31
4,4'-DiCB	15	202		19.5	8.31
2,2',6-TrCB	19	51.2		19.5	4.97
2,4,6-TrCB	30	ND		19.5	4.97
2,2',5-TrCB	18	1360		19.5	4.97
2,2',4-TrCB	17	480		19.5	4.97
2,3,6-/2,3',6-TrCB	24/27	94.6		19.5	4.97
2,2',3-/2,4',6-TrCB	16/32	1040		19.5	4.97
2',3,5-TrCB	34	ND		19.5	5.86
2,3,5-TrCB	23	ND		19.5	5.86
2,4,5-TrCB	29	ND		19.5	5.86
2,3',5-TrCB	26	311		19.5	5.86
2,3',4-TrCB	25	69.5		19.5	5.86
2,4',5-TrCB	31	614		19.5	5.86
2,4,4'-TrCB	28	784		19.5	5.86
2,3,3'-/2,3,4-/2',3,4-TrCB	20/21/33	635		19.5	5.86
2,3,4'-TrCB	22	380		19.5	5.86
3,3',5-TrCB	36	ND		19.5	5.86
3,4',5-TrCB	39	ND		19.5	5.86
3,4,5-TrCB	38	41.6		19.5	5.86
3,3',4-TrCB	35	ND		19.5	5.86
3,4,4'-TrCB	37	257		19.5	5.86
2,2',6,6'-TeCB	54	ND		19.5	3.75
2,2',4,6-TeCB	50	ND		19.5	3.75
2,2',5,6'-TeCB	53	312		19.5	3.75
2,2',4,6'-TeCB	51	113		19.5	3.75
2,2',3,6-TeCB	45	361		19.5	3.75
2,2',3,6'-TeCB	46	180		19.5	3.75
2,2',5,5'-/2,3',4,6-TeCB	52/69	2110		19.5	3.75
2,3',5',6-TeCB	73	ND		19.5	3.75
2,2',3-5-/2,2',4,5'-TeCB	43/49	1650		19.5	3.75
2,2',4,4'-TeCB	47	596		19.5	3.75
2,2',4,5-/2,4,4',6-TeCB	48/75	581		19.5	3.75
2,3,5,6-TeCB	65	ND		19.5	3.75
2,3,4,6-TeCB	62	ND		19.5	3.75

Sample ID: T1-GW-34

Project:	A5C1099	**Ceres ID:**	19264-001	**Date Received:**	12-Mar-25
Matrix:	Aqueous	**QC Batch #:**	3448	**Date Extracted:**	20-Mar-25
Date & Time Sampled:	3/6/2025 13:50	**Sample Size:**	1.027 L	**Analyzed Date:**	23-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2,2',3,5'-TeCB	44	2440		19.5	3.75
2,2',3,4'-/2,3,3',6-TeCB	42/59	835		19.5	3.75
2,2',3,4-/2,3,4',6-/2,3',4',6-/2,3',5,5'-TeCB	41/64/71/72	2270		19.5	3.75
2,3',4,5'-TeCB	68	17.7	J	19.5	3.75
2,2',3,3'-TeCB	40	543		19.5	3.75
2,3,3',5-TeCB	57	ND		19.5	3.75
2,3',4,5-TeCB	67	117		19.5	3.75
2,3,3',5'-TeCB	58	ND		19.5	3.75
2,3,4',5-TeCB	63	118		19.5	3.75
2,4,4',5-TeCB	74	1210		19.5	3.75
2,3,4,5-/2,3',4',5-TeCB	61/70	2570		19.5	3.75
2,3',4,4'-/2',3,4,5-TeCB	66/76	2100		19.5	3.75
3,3',5,5'-TeCB	80	ND		19.5	3.75
2,3,3',4-TeCB	55	62.0		19.5	3.75
2,3,3',4'-/2,3,4,4'-TeCB	56/60	1430		19.5	3.59
3,3',4,5'-TeCB	79	23.7		19.5	3.59
3,3',4,5-TeCB	78	ND		19.5	3.59
3,4,4',5-TeCB	81	36.5		19.5	3.59
3,3',4,4'-TeCB	77	81.8		19.5	5.22
2,2',4,6,6'-PeCB	104	ND		19.5	4.75
2,2',3,6,6'-PeCB	96	ND		19.5	4.75
2,2',4,5'6-PeCB	103	ND		19.5	4.75
2,2',4,4',6-PeCB	100	ND		19.5	4.75
2,2',3,5,6'-PeCB	94	ND		19.5	4.75
2,2',3,5,6-/2,2',3,5',6-/2,2',3',4,6-/2,2',4,5,6'-PeCB	93/95/98/102	1560		19.5	4.75
2,2',3,4,6-PeCB	88/91	365		19.5	4.75
2,3',4,5',6-PeCB	121	ND		19.5	4.75
2,2',3,3',6-/2,2',3,5,5'-PeCB	84/92	679		19.5	3.46
2,2',3,4,6'-PeCB	89	36.6		19.5	3.46
2,2',3,4',5-/2,2',4,5,5'-PeCB	90/101	1210		19.5	3.46
2,3,3',5',6-PeCB	113	ND		19.5	3.46
2,2',4,4',5-PeCB	99	487		19.5	3.46
2,2',3,3',5-PeCB	83	20.7		19.5	3.46
2,3,3',5,6-/2,3',4,4',6-PeCB	112/119	83.1		19.5	3.46
2,3,3',4,6-PeCB	109	ND		19.5	3.46
2,2',3',4,5-PeCB	97	413		19.5	3.46
2,2',3,4,5-PeCB	86	ND		19.5	3.46
2,2',3,4,5'-/2,3,4',5,6-/2',3,4,5,6'-PeCB	87/117/125	419		19.5	3.46
2,3,3',5,5'-/2,3,4,4',6-PeCB	111/115	33.9		19.5	3.46
2,2',3,4,4'-/2,3,4,5,6-PeCB	85/116	204		19.5	3.46
2,3',4,5,5'-PeCB	120	ND		19.5	3.46
2-3,3',4',6-PeCB	110	1620		19.5	3.46

Sample ID: T1-GW-34

Project:	A5C1099	**Ceres ID:**	19264-001	**Date Received:**	12-Mar-25
Matrix:	Aqueous	**QC Batch #:**	3448	**Date Extracted:**	20-Mar-25
Date & Time Sampled:	3/6/2025 13:50	**Sample Size:**	1.027 L	**Analyzed Date:**	23-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2,2',3,3',4-PeCB	82	241		19.5	3.46
2',3,4,5,5'-PeCB	124	ND		19.5	3.46
2,3,3',4',5-/2,3,3',4,5'-PeCB	107/108	ND		19.5	3.46
2,3',4,4',5'-PeCB	123	22.3		19.5	3.46
2,3,3',4,5-/2,3',4,4',5-PeCB	106/118	822		19.5	5.58
2,3,4,4',5-PeCB	114	45.3		19.5	3.25
2',3,3',4,5-PeCB	122	19.9		19.5	3.25
2,3,3',4,4'-PeCB	105	453		19.5	4.87
3,3',4,5,5'-PeCB	127	ND		19.5	4.87
3,3',4,4',5-PeCB	126	ND		19.5	5.73
2,2',4,4',6,6'-HxCB	155	ND		19.5	4.86
2,2',3,4',6,6'-HxCB	150	ND		19.5	4.86
2,2',3,5,6,6'-HxCB	152	ND		19.5	4.86
2,2',3,4,6,6'-HxCB	145	ND		19.5	4.86
2,2',3,3',6,6'-HxCB	136	172		19.5	4.86
2,2',3,4',5,6'-HxCB	148	ND		19.5	4.86
2,2',4,4',5',6-HxCB	154	23.4		19.5	4.86
2,2',3,5,5',6-HxCB	151	259		19.5	4.86
2,2',3,3',5,6'-HxCB	135	163		19.5	4.86
2,2',3,4,5',6-HxCB	144	46.2		19.5	4.86
2,2',3,4',5,6-HxCB	147	29.7		19.5	4.86
2,2',3,4,4',6-/2,2',3,4',5',6-HxCB	139/149	1030		19.5	4.86
2,2',3,4,4',6'-HxCB	140	ND		19.5	4.86
2,2',3,3',5,6-/2,2',3,4,5,6'-HxCB	134/143	55.1		19.5	5.19
2,2',3,3',4,6-/2,2',3,4,5,6-HxCB	131/142	28.3		19.5	5.19
2,2',3,3',5,5'-HxCB	133	ND		19.5	5.19
2,2',3,3',4,6'-/2,2',3,4',5,5'-HxCB	132/146	126		19.5	5.19
2,3,3',4,5',6-/2,3,3',5,5',6-HxCB	161/165	334		19.5	5.19
2,2',4,4',5,5'-HxCB	153	652		19.5	5.19
2,3',4,4',5',6-HxCB	168	ND		19.5	5.19
2,2',3,4,5,5'-HxCB	141	163		19.5	5.19
2,2',3,4,4',5-HxCB	137	61.6		19.5	5.19
2,2',3,3',4,5'-HxCB	130	75.5		19.5	5.19
2,2',3,4,4',5-/2,3,3',4',5,6-/2,3,3',4',5',6-HxCB	138/163/164	840		19.5	5.19
2,3,3',4,4',6-/2,3,3',4,5,6-HxCB	158/160	107		19.5	5.19
2,2',3,3',4,5-HxCB	129	46.4		19.5	5.19
2,3,4,4',5,6-HxCB	166	ND		19.5	5.19
2,3,3',4,5,5'-HxCB	159	ND		19.5	5.19
2,2',3,3',4,4'-/2,3,3',4',5,5'-HxCB	128/162	168		19.5	5.19
2,3',4,4',5,5'-HxCB	167	37.4		19.5	5.19
2,3,3',4,4',5-HxCB	156	78.8		19.5	4.13
2,3,3',4,4',5'-HxCB	157	39.9		19.5	6.07
3,3',4,4',5,5'-HxCB	169	ND		19.5	5.20

Sample ID: T1-GW-34

Project:	A5C1099	**Ceres ID:**	19264-001	**Date Received:**	12-Mar-25
Matrix:	Aqueous	**QC Batch #:**	3448	**Date Extracted:**	20-Mar-25
Date & Time Sampled:	3/6/2025 13:50	**Sample Size:**	1.027 L	**Analyzed Date:**	23-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2,2',3,4',5,6,6'-HpCB	188	ND		19.5	5.69
2,2',3,4,4',6,6'-HpCB	184	ND		19.5	5.69
2,2',3,3',5,6,6'-HpCB	179	148		19.5	5.69
2,2',3,3',4,6,6'-HpCB	176	44.7		19.5	5.69
2,2',3,4,5,6,6'-HpCB	186	ND		19.5	5.69
2,2',3,3',5,5',6-HpCB	178	69.9		19.5	5.69
2,2',3,3',4,5',6-HpCB	175	14.0	J	19.5	5.69
2,2',3,4,4',5,6'-/2,2',3,4',5,5',6-HpCB	182/187	457		19.5	5.69
2,2',3,4,4',5',6-HpCB	183	197		19.5	5.69
2,2',3,4,5,5',6-HpCB	185	27.5		19.5	3.69
2,2',3,3',4,5,6'-HpCB	174	287		19.5	3.69
2,2',3,4,4',5,6-HpCB	181	ND		19.5	3.69
2,2',3,3',4',5,6-HpCB	177	193		19.5	3.69
2,2',3,3',4,4',6-HpCB	171	79.9		19.5	3.69
2,2',3,3',4,5,6-HpCB	173	ND		19.5	3.69
2,2',3,3',4,5,5'-HpCB	172	49.6		19.5	3.69
2,3,3',4,5,5',6-HpCB	192	ND		19.5	3.69
2,2',3,4,4',5,5'-HpCB	180	699		19.5	3.69
2,3,3',4',5,5',6-HpCB	193	32.8		19.5	3.69
2,3,3',4,4',5',6-HpCB	191	13.1	J	19.5	3.69
2,2',3,3',4,4',5-HpCB	170	306		19.5	3.69
2,3,3',4,4',5,6-HpCB	190	52.9		19.5	3.69
2,3,3',4,4',5,5'-HpCB	189	14.7	J	19.5	3.69
2,2',3,3',5,5',6,6'-OcCB	202	55.2		19.5	4.31
2,2',3,3',4,5',6,6'-OcCB	201	43.2		19.5	4.31
2,2',3,4,4',5,6,6'-OcCB	204	ND		19.5	4.31
2,2',3,3',4,4',6,6'-OcCB	197	ND		19.5	4.31
2,2',3,3',4,5,6,6'-OcCB	200	25.1		19.5	4.31
2,2',3,3',4,5,5',6-OcCB	198	ND		19.5	4.31
2,2',3,3',4,5,5',6'-OcCB	199	271		19.5	4.31
2,2',3,3',4,4',5,6'-/2,2',3,4,4',5,5',6-OcCB	196/203	229		19.5	4.31
2,2',3,3',4,4',5,6-OcCB	195	65.9		19.5	7.16
2,2',3,3',4,4',5,5'-OcCB	194	172		19.5	7.16
2,3,3',4,4',5,5',6-OcCB	205	ND		19.5	7.16
2,2',3,3',4,5,5',6,6'-NoCB	208	99.4		19.5	3.75
2,2',3,3',4,4',5,6,6'-NoCB	207	30.8		19.5	3.75
2,2',3,3',4,4',5,5',6-NoCB	206	268		19.5	5.61
Decachlorobiphenyl	209	364		19.5	4.14

Sample ID: T1-GW-34

Project:	A5C1099	**Ceres ID:**	19264-001	**Date Received:**	12-Mar-25
Matrix:	Aqueous	**QC Batch #:**	3448	**Date Extracted:**	20-Mar-25
Date & Time Sampled:	3/6/2025 13:50	**Sample Size:**	1.027 L	**Analyzed Date:**	23-Mar-25

Totals	**Chlorination Level**	**Conc. (pg/L)**	**Qual.**	**RL**
Monochlorobiphenyl	MoCB	0.0		19.5
Dichlorobiphenyl	DiCB	2058		19.5
Trichlorobiphenyl	TrCB	6118		19.5
Tetrachlorobiphenyl	TeCB	19758		19.5
Pentachlorobiphenyl	PeCB	8735		19.5
Hexachlorobiphenyl	HxCB	4536		19.5
Heptachlorobiphenyl	HpCB	2686		19.5
Octachlorobiphenyl	OcCB	861		19.5
Nonachlorobiphenyl	NoCB	398		19.5
Decachlorobiphenyl	DeCB	364		19.5

Labeled Standards	**Congener #**	**% Rec.**	**Limits**
$^{13}C_{12}$-2-MoCB	1	24.5	5-145
$^{13}C_{12}$-4-MoCB	3	42.4	5-145
$^{13}C_{12}$-2,2'-DiCB	4	55.2	5-145
$^{13}C_{12}$-4,4'-DiCB	15	93.0	5-145
$^{13}C_{12}$-2,2',6-TrCB	19	101	5-145
$^{13}C_{12}$-3,4,4'-TrCB	37	34.3	5-145
$^{13}C_{12}$-2,2',6,6'-TeCB	54	67.4	5-145
$^{13}C_{12}$-3,4,4',5-TeCB	81	79.3	10-145
$^{13}C_{12}$-3,3',4,4'-TeCB	77	79.4	10-145
$^{13}C_{12}$-2,2',4,6,6'-PeCB	104	68.3	10-145
$^{13}C_{12}$-2,3',4,4',5'-PeCB	123	87.7	10-145
$^{13}C_{12}$-2,3',4,4',5-PeCB	118	88.7	10-145
$^{13}C_{12}$-2,3,4,4',5-PeCB	114	72.3	10-145
$^{13}C_{12}$-2,3,3',4,4'-PeCB	105	72.1	10-145
$^{13}C_{12}$-3,3',4,4',5-PeCB	126	72.0	10-145
$^{13}C_{12}$-2,2',4,4',6,6'-HxCB	155	85.1	10-145
$^{13}C_{12}$-2,3',4,4',5,5'-HxCB	167	87.6	10-145
$^{13}C_{12}$-2,3,3',4,4',5-HxCB	156	87.3	10-145
$^{13}C_{12}$-2,3,3',4,4',5'-HxCB	157	81.7	10-145
$^{13}C_{12}$-3,3',4,4',5,5'-HxCB	169	95.8	10-145
$^{13}C_{12}$-2,2',3,4',5,6,6'-HpCB	188	59.8	10-145
$^{13}C_{12}$-2,3,3',4,4',5,5'-HpCB	189	73.3	10-145
$^{13}C_{12}$-2,2',3,3',5,5',6,6'-OcCB	202	77.6	10-145
$^{13}C_{12}$-2,3,3',4,4',5,5',6-OcCB	205	71.0	10-145
$^{13}C_{12}$-2,2',3,3',4,5,5',6,6'-NoCB	208	67.2	10-145
$^{13}C_{12}$-2,2',3,3',4,4',5,5',6-NoCB	206	72.4	10-145
$^{13}C_{12}$-Decachlorobiphenyl	209	46.0	10-145
Cleanup Standards			
$^{13}C_{12}$-2,4,4'-TrCB	28	31.1	5-145
$^{13}C_{12}$-2,3,3',5,5'-PeCB	111	117	10-145
$^{13}C_{12}$-2,2',3,3',5,5',6-HpCB	178	91.0	10-145

Sample ID: MW-1

Project ID:	A5C1099	**Ceres ID:**	19264-002	**Date Received:**	3/12/2025
Matrix:	Aqueous	**QC Batch #:**	3448	**Date Extracted:**	3/20/2025
Date & Time Sampled:	3/6/2025 13:00	**Sample Size:**	1.032 L	**Analyzed Date:**	3/23/2025

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2-MoCB	1	144		19.4	2.08
3-MoCB	2	ND		19.4	3.49
4-MoCB	3	ND		19.4	3.49
2,2'-/2,6-DiCB	4/10	ND		19.4	8.07
2,4-/2,5-DiCB	7/9	ND		19.4	8.07
2,3'-DiCB	6	131		19.4	8.07
2,3-/2,4'-DiCB	5/8	418		19.4	8.07
3,5-DiCB	14	ND		19.4	8.31
3,3'-DiCB	11	1530		19.4	8.31
3,4-/3,4'-DiCB	12/13	ND		19.4	8.31
4,4'-DiCB	15	193		19.4	8.31
2,2',6-TrCB	19	48.4		19.4	4.97
2,4,6-TrCB	30	ND		19.4	4.97
2,2',5-TrCB	18	1540		19.4	4.97
2,2',4-TrCB	17	605		19.4	4.97
2,3,6-/2,3',6-TrCB	24/27	154		19.4	4.97
2,2',3-/2,4',6-TrCB	16/32	1370		19.4	4.97
2',3,5-TrCB	34	ND		19.4	5.86
2,3,5-TrCB	23	ND		19.4	5.86
2,4,5-TrCB	29	ND		19.4	5.86
2,3',5-TrCB	26	333		19.4	5.86
2,3',4-TrCB	25	189		19.4	5.86
2,4',5-TrCB	31	2010		19.4	5.86
2,4,4'-TrCB	28	1610		19.4	5.86
2,3,3'-/2,3,4-/2',3,4-TrCB	20/21/33	585		19.4	5.86
2,3,4'-TrCB	22	255		19.4	5.86
3,3',5-TrCB	36	ND		19.4	5.86
3,4',5-TrCB	39	ND		19.4	5.86
3,4,5-TrCB	38	ND		19.4	5.86
3,3',4-TrCB	35	ND		19.4	5.86
3,4,4'-TrCB	37	184		19.4	5.86
2,2',6,6'-TeCB	54	ND		19.4	3.75
2,2',4,6-TeCB	50	ND		19.4	3.75
2,2',5,6'-TeCB	53	272		19.4	3.75
2,2',4,6'-TeCB	51	89.1		19.4	3.75
2,2',3,6-TeCB	45	313		19.4	3.75
2,2',3,6'-TeCB	46	131		19.4	3.75
2,2',5,5'-/2,3',4,6-TeCB	52/69	1630		19.4	3.75
2,3',5',6-TeCB	73	ND		19.4	3.75
2,2',3-5-/2,2',4,5'-TeCB	43/49	1480		19.4	3.75
2,2',4,4'-TeCB	47	542		19.4	3.75
2,2',4,5-/2,4,4',6-TeCB	48/75	560		19.4	3.75
2,3,5,6-TeCB	65	ND		19.4	3.75
2,3,4,6-TeCB	62	ND		19.4	3.75

Sample ID: **MW-1**

Project:	A5C1099	**Ceres ID:**	19264-002	**Date Received:**	12-Mar-25
Matrix:	Aqueous	**QC Batch #:**	3448	**Date Extracted:**	20-Mar-25
Date & Time Sampled:	3/6/2025 13:00	**Sample Size:**	1.032 L	**Analyzed Date:**	23-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2,2',3,5'-TeCB	44	1980		19.4	3.75
2,2',3,4'-/2,3,3',6-TeCB	42/59	877		19.4	3.75
2,2',3,4-/2,3,4',6-/2,3',4',6-/2,3',5,5'-TeCB	41/64/71/72	2170		19.4	3.75
2,3',4,5'-TeCB	68	21.3		19.4	3.75
2,2',3,3'-TeCB	40	561		19.4	3.75
2,3,3',5-TeCB	57	18.2	J	19.4	3.75
2,3',4,5-TeCB	67	108		19.4	3.75
2,3,3',5'-TeCB	58	ND		19.4	3.75
2,3,4',5-TeCB	63	86.4		19.4	3.75
2,4,4',5-TeCB	74	870		19.4	3.75
2,3,4,5-/2,3',4',5-TeCB	61/70	1790		19.4	3.75
2,3',4,4'-/2',3,4,5-TeCB	66/76	1570		19.4	3.75
3,3',5,5'-TeCB	80	ND		19.4	3.75
2,3,3',4-TeCB	55	71.6		19.4	3.75
2,3,3',4'-/2,3,4,4'-TeCB	56/60	798		19.4	3.59
3,3',4,5'-TeCB	79	ND		19.4	3.59
3,3',4,5-TeCB	78	ND		19.4	3.59
3,4,4',5-TeCB	81	ND		19.4	3.59
3,3',4,4'-TeCB	77	47.9		19.4	5.22
2,2',4,6,6'-PeCB	104	ND		19.4	4.75
2,2',3,6,6'-PeCB	96	ND		19.4	4.75
2,2',4,5'6-PeCB	103	ND		19.4	4.75
2,2',4,4',6-PeCB	100	ND		19.4	4.75
2,2',3,5,6'-PeCB	94	ND		19.4	4.75
2,2',3,5,6-/2,2',3,5',6-/2,2',3',4,6-/2,2',4,5,6'-PeCB	93/95/98/102	445		19.4	4.75
2,2',3,4,6-PeCB	88/91	99.3		19.4	4.75
2,3',4,5',6-PeCB	121	ND		19.4	4.75
2,2',3,3',6-/2,2',3,5,5'-PeCB	84/92	169		19.4	3.46
2,2',3,4,6'-PeCB	89	ND		19.4	3.46
2,2',3,4',5-/2,2',4,5,5'-PeCB	90/101	316		19.4	3.46
2,3,3',5',6-PeCB	113	ND		19.4	3.46
2,2',4,4',5-PeCB	99	123		19.4	3.46
2,2',3,3',5-PeCB	83	ND		19.4	3.46
2,3,3',5,6-/2,3',4,4',6-PeCB	112/119	29.9		19.4	3.46
2,3,3',4,6-PeCB	109	ND		19.4	3.46
2,2',3',4,5-PeCB	97	114		19.4	3.46
2,2',3,4,5-PeCB	86	ND		19.4	3.46
2,2',3,4,5'-/2,3,4',5,6-/2',3,4,5,6'-PeCB	87/117/125	102		19.4	3.46
2,3,3',5,5'-/2,3,4,4',6-PeCB	111/115	ND		19.4	3.46
2,2',3,4,4'-/2,3,4,5,6-PeCB	85/116	39.8		19.4	3.46
2,3',4,5,5'-PeCB	120	ND		19.4	3.46
2-3,3',4',6-PeCB	110	239		19.4	3.46

Sample ID: MW-1

Project:	A5C1099	**Ceres ID:**	19264-002	**Date Received:**	12-Mar-25
Matrix:	Aqueous	**QC Batch #:**	3448	**Date Extracted:**	20-Mar-25
Date & Time Sampled:	3/6/2025 13:00	**Sample Size:**	1.032 L	**Analyzed Date:**	23-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2,2',3,3',4-PeCB	82	48.0		19.4	3.46
2',3,4,5,5'-PeCB	124	ND		19.4	3.46
2,3,3',4',5-/2,3,3',4,5'-PeCB	107/108	ND		19.4	3.46
2,3',4,4',5'-PeCB	123	ND		19.4	3.46
2,3,3',4,5-/2,3',4,4',5-PeCB	106/118	115		19.4	5.58
2,3,4,4',5-PeCB	114	ND		19.4	3.25
2',3,3',4,5-PeCB	122	ND		19.4	3.25
2,3,3',4,4'-PeCB	105	47.5		19.4	4.87
3,3',4,5,5'-PeCB	127	ND		19.4	4.87
3,3',4,4',5-PeCB	126	ND		19.4	5.73
2,2',4,4',6,6'-HxCB	155	ND		19.4	4.86
2,2',3,4',6,6'-HxCB	150	ND		19.4	4.86
2,2',3,5,6,6'-HxCB	152	ND		19.4	4.86
2,2',3,4,6,6'-HxCB	145	ND		19.4	4.86
2,2',3,3',6,6'-HxCB	136	20.8		19.4	4.86
2,2',3,4',5,6'-HxCB	148	ND		19.4	4.86
2,2',4,4',5',6-HxCB	154	ND		19.4	4.86
2,2',3,5,5',6-HxCB	151	33.2		19.4	4.86
2,2',3,3',5,6'-HxCB	135	ND		19.4	4.86
2,2',3,4,5',6-HxCB	144	ND		19.4	4.86
2,2',3,4',5,6-HxCB	147	ND		19.4	4.86
2,2',3,4,4',6-/2,2',3,4',5',6-HxCB	139/149	74.9		19.4	4.86
2,2',3,4,4',6'-HxCB	140	ND		19.4	4.86
2,2',3,3',5,6-/2,2',3,4,5,6'-HxCB	134/143	ND		19.4	5.19
2,2',3,3',4,6-/2,2',3,4,5,6-HxCB	131/142	ND		19.4	5.19
2,2',3,3',5,5'-HxCB	133	ND		19.4	5.19
2,2',3,3',4,6'-/2,2',3,4',5,5'-HxCB	132/146	ND		19.4	5.19
2,3,3',4,5',6-/2,3,3',5,5',6-HxCB	161/165	22.1		19.4	5.19
2,2',4,4',5,5'-HxCB	153	72.9		19.4	5.19
2,3',4,4',5',6-HxCB	168	ND		19.4	5.19
2,2',3,4,5,5'-HxCB	141	ND		19.4	5.19
2,2',3,4,4',5-HxCB	137	ND		19.4	5.19
2,2',3,3',4,5'-HxCB	130	ND		19.4	5.19
2,2',3,4,4',5-/2,3,3',4',5,6-/2,3,3',4',5',6-HxCB	138/163/164	46.8		19.4	5.19
2,3,3',4,4',6-/2,3,3',4,5,6-HxCB	158/160	ND		19.4	5.19
2,2',3,3',4,5-HxCB	129	ND		19.4	5.19
2,3,4,4',5,6-HxCB	166	ND		19.4	5.19
2,3,3',4,5,5'-HxCB	159	ND		19.4	5.19
2,2',3,3',4,4'-/2,3,3',4',5,5'-HxCB	128/162	ND		19.4	5.19
2,3',4,4',5,5'-HxCB	167	ND		19.4	5.19
2,3,3',4,4',5-HxCB	156	8.06	J	19.4	4.13
2,3,3',4,4',5'-HxCB	157	ND		19.4	6.07
3,3',4,4',5,5'-HxCB	169	ND		19.4	5.20

Sample ID: MW-1

Project:	A5C1099		**Ceres ID:**	19264-002		**Date Received:**	12-Mar-25
Matrix:	Aqueous		**QC Batch #:**	3448		**Date Extracted:**	20-Mar-25
Date & Time Sampled:	3/6/2025	13:00	**Sample Size:**	1.032	L	**Analyzed Date:**	23-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2,2',3,4',5,6,6'-HpCB	188	ND		19.4	5.69
2,2',3,4,4',6,6'-HpCB	184	ND		19.4	5.69
2,2',3,3',5,6,6'-HpCB	179	ND		19.4	5.69
2,2',3,3',4,6,6'-HpCB	176	ND		19.4	5.69
2,2',3,4,5,6,6'-HpCB	186	ND		19.4	5.69
2,2',3,3',5,5',6-HpCB	178	ND		19.4	5.69
2,2',3,3',4,5',6-HpCB	175	ND		19.4	5.69
2,2',3,4,4',5,6'-/2,2',3,4',5,5',6-HpCB	182/187	138		19.4	5.69
2,2',3,4,4',5',6-HpCB	183	25.3		19.4	5.69
2,2',3,4,5,5',6-HpCB	185	ND		19.4	3.69
2,2',3,3',4,5,6'-HpCB	174	ND		19.4	3.69
2,2',3,4,4',5,6-HpCB	181	ND		19.4	3.69
2,2',3,3',4',5,6-HpCB	177	ND		19.4	3.69
2,2',3,3',4,4',6-HpCB	171	ND		19.4	3.69
2,2',3,3',4,5,6-HpCB	173	ND		19.4	3.69
2,2',3,3',4,5,5'-HpCB	172	ND		19.4	3.69
2,3,3',4,5,5',6-HpCB	192	ND		19.4	3.69
2,2',3,4,4',5,5'-HpCB	180	35.9		19.4	3.69
2,3,3',4',5,5',6-HpCB	193	ND		19.4	3.69
2,3,3',4,4',5',6-HpCB	191	ND		19.4	3.69
2,2',3,3',4,4',5-HpCB	170	16.9	J	19.4	3.69
2,3,3',4,4',5,6-HpCB	190	ND		19.4	3.69
2,3,3',4,4',5,5'-HpCB	189	ND		19.4	3.69
2,2',3,3',5,5',6,6'-OcCB	202	ND		19.4	4.31
2,2',3,3',4,5',6,6'-OcCB	201	ND		19.4	4.31
2,2',3,4,4',5,6,6'-OcCB	204	ND		19.4	4.31
2,2',3,3',4,4',6,6'-OcCB	197	ND		19.4	4.31
2,2',3,3',4,5,6,6'-OcCB	200	ND		19.4	4.31
2,2',3,3',4,5,5',6-OcCB	198	ND		19.4	4.31
2,2',3,3',4,5,5',6'-OcCB	199	ND		19.4	4.31
2,2',3,3',4,4',5,6'-/2,2',3,4,4',5,5',6-OcCB	196/203	ND		19.4	4.31
2,2',3,3',4,4',5,6-OcCB	195	ND		19.4	7.16
2,2',3,3',4,4',5,5'-OcCB	194	ND		19.4	7.16
2,3,3',4,4',5,5',6-OcCB	205	ND		19.4	7.16
2,2',3,3',4,5,5',6,6'-NoCB	208	ND		19.4	3.75
2,2',3,3',4,4',5,6,6'-NoCB	207	ND		19.4	3.75
2,2',3,3',4,4',5,5',6-NoCB	206	ND		19.4	5.61
Decachlorobiphenyl	209	ND		19.4	4.14

Sample ID: MW-1

Project:	A5C1099	**Ceres ID:**	19264-002	**Date Received:**	12-Mar-25
Matrix:	Aqueous	**QC Batch #:**	3448	**Date Extracted:**	20-Mar-25
Date & Time Sampled:	3/6/2025 13:00	**Sample Size:**	1.032 L	**Analyzed Date:**	23-Mar-25

Totals	**Chlorination Level**	**Conc. (pg/L)**	**Qual.**	**RL**
Monochlorobiphenyl	MoCB	144		19.4
Dichlorobiphenyl	DiCB	2272		19.4
Trichlorobiphenyl	TrCB	8883		19.4
Tetrachlorobiphenyl	TeCB	15987		19.4
Pentachlorobiphenyl	PeCB	1888		19.4
Hexachlorobiphenyl	HxCB	279		19.4
Heptachlorobiphenyl	HpCB	216		19.4
Octachlorobiphenyl	OcCB	0		19.4
Nonachlorobiphenyl	NoCB	0		19.4
Decachlorobiphenyl	DeCB	ND		19.4

Labeled Standards	**Congener #**	**% Rec.**	**Limits**
$^{13}C_{12}$-2-MoCB	1	6.45	5-145
$^{13}C_{12}$-4-MoCB	3	20.8	5-145
$^{13}C_{12}$-2,2'-DiCB	4	32.5	5-145
$^{13}C_{12}$-4,4'-DiCB	15	116	5-145
$^{13}C_{12}$-2,2',6-TrCB	19	104	5-145
$^{13}C_{12}$-3,4,4'-TrCB	37	20.5	5-145
$^{13}C_{12}$-2,2',6,6'-TeCB	54	47.6	5-145
$^{13}C_{12}$-3,4,4',5-TeCB	81	88.2	10-145
$^{13}C_{12}$-3,3',4,4'-TeCB	77	87.7	10-145
$^{13}C_{12}$-2,2',4,6,6'-PeCB	104	54.2	10-145
$^{13}C_{12}$-2,3',4,4',5'-PeCB	123	75.6	10-145
$^{13}C_{12}$-2,3',4,4',5-PeCB	118	77.3	10-145
$^{13}C_{12}$-2,3,4,4',5-PeCB	114	71.8	10-145
$^{13}C_{12}$-2,3,3',4,4'-PeCB	105	73.8	10-145
$^{13}C_{12}$-3,3',4,4',5-PeCB	126	75.2	10-145
$^{13}C_{12}$-2,2',4,4',6,6'-HxCB	155	77.2	10-145
$^{13}C_{12}$-2,3',4,4',5,5'-HxCB	167	83.0	10-145
$^{13}C_{12}$-2,3,3',4,4',5-HxCB	156	83.0	10-145
$^{13}C_{12}$-2,3,3',4,4',5'-HxCB	157	81.8	10-145
$^{13}C_{12}$-3,3',4,4',5,5'-HxCB	169	88.8	10-145
$^{13}C_{12}$-2,2',3,4',5,6,6'-HpCB	188	57.9	10-145
$^{13}C_{12}$-2,3,3',4,4',5,5'-HpCB	189	79.9	10-145
$^{13}C_{12}$-2,2',3,3',5,5',6,6'-OcCB	202	68.6	10-145
$^{13}C_{12}$-2,3,3',4,4',5,5',6-OcCB	205	67.6	10-145
$^{13}C_{12}$-2,2',3,3',4,5,5',6,6'-NoCB	208	56.0	10-145
$^{13}C_{12}$-2,2',3,3',4,4',5,5',6-NoCB	206	68.4	10-145
$^{13}C_{12}$-Decachlorobiphenyl	209	60.8	10-145
Cleanup Standards			
$^{13}C_{12}$-2,4,4'-TrCB	28	48.8	5-145
$^{13}C_{12}$-2,3,3',5,5'-PeCB	111	104	10-145
$^{13}C_{12}$-2,2',3,3',5,5',6-HpCB	178	90.4	10-145

Sample ID: MW-2

Project ID:	A5C1099	**Ceres ID:**	19264-003	**Date Received:**	3/12/2025
Matrix:	Aqueous	**QC Batch #:**	3448	**Date Extracted:**	3/20/2025
Date & Time Sampled:	3/6/2025 14:15	**Sample Size:**	0.947 L	**Analyzed Date:**	3/23/2025

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2-MoCB	1	ND		21.1	2.08
3-MoCB	2	ND		21.1	3.49
4-MoCB	3	ND		21.1	3.49
2,2'-/2,6-DiCB	4/10	34.3		21.1	8.07
2,4-/2,5-DiCB	7/9	ND		21.1	8.07
2,3'-DiCB	6	75.2		21.1	8.07
2,3-/2,4'-DiCB	5/8	354		21.1	8.07
3,5-DiCB	14	ND		21.1	8.31
3,3'-DiCB	11	1440		21.1	8.31
3,4-/3,4'-DiCB	12/13	ND		21.1	8.31
4,4'-DiCB	15	147		21.1	8.31
2,2',6-TrCB	19	50.9		21.1	4.97
2,4,6-TrCB	30	ND		21.1	4.97
2,2',5-TrCB	18	1840		21.1	4.97
2,2',4-TrCB	17	694		21.1	4.97
2,3,6-/2,3',6-TrCB	24/27	136		21.1	4.97
2,2',3-/2,4',6-TrCB	16/32	1330		21.1	4.97
2',3,5-TrCB	34	ND		21.1	5.86
2,3,5-TrCB	23	ND		21.1	5.86
2,4,5-TrCB	29	ND		21.1	5.86
2,3',5-TrCB	26	354		21.1	5.86
2,3',4-TrCB	25	147		21.1	5.86
2,4',5-TrCB	31	1880		21.1	5.86
2,4,4'-TrCB	28	1810		21.1	5.86
2,3,3'-/2,3,4-/2',3,4-TrCB	20/21/33	1760		21.1	5.86
2,3,4'-TrCB	22	276		21.1	5.86
3,3',5-TrCB	36	ND		21.1	5.86
3,4',5-TrCB	39	ND		21.1	5.86
3,4,5-TrCB	38	ND		21.1	5.86
3,3',4-TrCB	35	ND		21.1	5.86
3,4,4'-TrCB	37	139		21.1	5.86
2,2',6,6'-TeCB	54	ND		21.1	3.75
2,2',4,6-TeCB	50	ND		21.1	3.75
2,2',5,6'-TeCB	53	295		21.1	3.75
2,2',4,6'-TeCB	51	92.6		21.1	3.75
2,2',3,6-TeCB	45	272		21.1	3.75
2,2',3,6'-TeCB	46	121		21.1	3.75
2,2',5,5'-/2,3',4,6-TeCB	52/69	1450		21.1	3.75
2,3',5',6-TeCB	73	ND		21.1	3.75
2,2',3-5-/2,2',4,5'-TeCB	43/49	1300		21.1	3.75
2,2',4,4'-TeCB	47	441		21.1	3.75
2,2',4,5-/2,4,4',6-TeCB	48/75	432		21.1	3.75
2,3,5,6-TeCB	65	ND		21.1	3.75
2,3,4,6-TeCB	62	ND		21.1	3.75

Sample ID: **MW-2**

Project:	A5C1099	**Ceres ID:**	19264-003	**Date Received:**	12-Mar-25
Matrix:	Aqueous	**QC Batch #:**	3448	**Date Extracted:**	20-Mar-25
Date & Time Sampled:	3/6/2025 14:15	**Sample Size:**	0.947 L	**Analyzed Date:**	23-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2,2',3,5'-TeCB	44	1570		21.1	3.75
2,2',3,4'-/2,3,3',6-TeCB	42/59	640		21.1	3.75
2,2',3,4-/2,3,4',6-/2,3',4',6-/2,3',5,5'-TeCB	41/64/71/72	1570		21.1	3.75
2,3',4,5'-TeCB	68	13.9	J	21.1	3.75
2,2',3,3'-TeCB	40	375		21.1	3.75
2,3,3',5-TeCB	57	12.8	J	21.1	3.75
2,3',4,5-TeCB	67	91.6		21.1	3.75
2,3,3',5'-TeCB	58	ND		21.1	3.75
2,3,4',5-TeCB	63	59.3		21.1	3.75
2,4,4',5-TeCB	74	742		21.1	3.75
2,3,4,5-/2,3',4',5-TeCB	61/70	1500		21.1	3.75
2,3',4,4'-/2',3,4,5-TeCB	66/76	1220		21.1	3.75
3,3',5,5'-TeCB	80	ND		21.1	3.75
2,3,3',4-TeCB	55	26.6		21.1	3.75
2,3,3',4'-/2,3,4,4'-TeCB	56/60	622		21.1	3.59
3,3',4,5'-TeCB	79	ND		21.1	3.59
3,3',4,5-TeCB	78	ND		21.1	3.59
3,4,4',5-TeCB	81	ND		21.1	3.59
3,3',4,4'-TeCB	77	25.9		21.1	5.22
2,2',4,6,6'-PeCB	104	ND		21.1	4.75
2,2',3,6,6'-PeCB	96	ND		21.1	4.75
2,2',4,5'6-PeCB	103	ND		21.1	4.75
2,2',4,4',6-PeCB	100	ND		21.1	4.75
2,2',3,5,6'-PeCB	94	ND		21.1	4.75
2,2',3,5,6-/2,2',3,5',6-/2,2',3',4,6-/2,2',4,5,6'-PeCB	93/95/98/102	537		21.1	4.75
2,2',3,4,6-PeCB	88/91	134		21.1	4.75
2,3',4,5',6-PeCB	121	ND		21.1	4.75
2,2',3,3',6-/2,2',3,5,5'-PeCB	84/92	201		21.1	3.46
2,2',3,4,6'-PeCB	89	13.3	J	21.1	3.46
2,2',3,4',5-/2,2',4,5,5'-PeCB	90/101	407		21.1	3.46
2,3,3',5',6-PeCB	113	ND		21.1	3.46
2,2',4,4',5-PeCB	99	143		21.1	3.46
2,2',3,3',5-PeCB	83	ND		21.1	3.46
2,3,3',5,6-/2,3',4,4',6-PeCB	112/119	24.6		21.1	3.46
2,3,3',4,6-PeCB	109	ND		21.1	3.46
2,2',3',4,5-PeCB	97	132		21.1	3.46
2,2',3,4,5-PeCB	86	ND		21.1	3.46
2,2',3,4,5'-/2,3,4',5,6-/2',3,4,5,6'-PeCB	87/117/125	136		21.1	3.46
2,3,3',5,5'-/2,3,4,4',6-PeCB	111/115	ND		21.1	3.46
2,2',3,4,4'-/2,3,4,5,6-PeCB	85/116	57.7		21.1	3.46
2,3',4,5,5'-PeCB	120	ND		21.1	3.46
2-3,3',4',6-PeCB	110	299		21.1	3.46

Sample ID: MW-2

Project:	A5C1099	**Ceres ID:**	19264-003	**Date Received:**	12-Mar-25
Matrix:	Aqueous	**QC Batch #:**	3448	**Date Extracted:**	20-Mar-25
Date & Time Sampled:	3/6/2025 14:15	**Sample Size:**	0.947 L	**Analyzed Date:**	23-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2,2',3,3',4-PeCB	82	51.0		21.1	3.46
2',3,4,5,5'-PeCB	124	ND		21.1	3.46
2,3,3',4',5-/2,3,3',4,5'-PeCB	107/108	ND		21.1	3.46
2,3',4,4',5'-PeCB	123	ND		21.1	3.46
2,3,3',4,5-/2,3',4,4',5-PeCB	106/118	155		21.1	5.58
2,3,4,4',5-PeCB	114	ND		21.1	3.25
2',3,3',4,5-PeCB	122	ND		21.1	3.25
2,3,3',4,4'-PeCB	105	57.1		21.1	4.87
3,3',4,5,5'-PeCB	127	ND		21.1	4.87
3,3',4,4',5-PeCB	126	ND		21.1	5.73
2,2',4,4',6,6'-HxCB	155	ND		21.1	4.86
2,2',3,4',6,6'-HxCB	150	ND		21.1	4.86
2,2',3,5,6,6'-HxCB	152	ND		21.1	4.86
2,2',3,4,6,6'-HxCB	145	ND		21.1	4.86
2,2',3,3',6,6'-HxCB	136	31.2		21.1	4.86
2,2',3,4',5,6'-HxCB	148	ND		21.1	4.86
2,2',4,4',5',6-HxCB	154	ND		21.1	4.86
2,2',3,5,5',6-HxCB	151	27.6		21.1	4.86
2,2',3,3',5,6'-HxCB	135	27.2		21.1	4.86
2,2',3,4,5',6-HxCB	144	ND		21.1	4.86
2,2',3,4',5,6-HxCB	147	ND		21.1	4.86
2,2',3,4,4',6-/2,2',3,4',5',6-HxCB	139/149	112		21.1	4.86
2,2',3,4,4',6'-HxCB	140	ND		21.1	4.86
2,2',3,3',5,6-/2,2',3,4,5,6'-HxCB	134/143	ND		21.1	5.19
2,2',3,3',4,6-/2,2',3,4,5,6-HxCB	131/142	ND		21.1	5.19
2,2',3,3',5,5'-HxCB	133	ND		21.1	5.19
2,2',3,3',4,6'-/2,2',3,4',5,5'-HxCB	132/146	20.2	J	21.1	5.19
2,3,3',4,5',6-/2,3,3',5,5',6-HxCB	161/165	36.0		21.1	5.19
2,2',4,4',5,5'-HxCB	153	131		21.1	5.19
2,3',4,4',5',6-HxCB	168	ND		21.1	5.19
2,2',3,4,5,5'-HxCB	141	21.0	J	21.1	5.19
2,2',3,4,4',5-HxCB	137	ND		21.1	5.19
2,2',3,3',4,5'-HxCB	130	ND		21.1	5.19
2,2',3,4,4',5-/2,3,3',4',5,6-/2,3,3',4',5',6-HxCB	138/163/164	109		21.1	5.19
2,3,3',4,4',6-/2,3,3',4,5,6-HxCB	158/160	ND		21.1	5.19
2,2',3,3',4,5-HxCB	129	ND		21.1	5.19
2,3,4,4',5,6-HxCB	166	ND		21.1	5.19
2,3,3',4,5,5'-HxCB	159	ND		21.1	5.19
2,2',3,3',4,4'-/2,3,3',4',5,5'-HxCB	128/162	18.7	J	21.1	5.19
2,3',4,4',5,5'-HxCB	167	ND		21.1	5.19
2,3,3',4,4',5-HxCB	156	11.2	J	21.1	4.13
2,3,3',4,4',5'-HxCB	157	ND		21.1	6.07
3,3',4,4',5,5'-HxCB	169	ND		21.1	5.20

Sample ID: MW-2

Project:	A5C1099	**Ceres ID:**	19264-003	**Date Received:**	12-Mar-25
Matrix:	Aqueous	**QC Batch #:**	3448	**Date Extracted:**	20-Mar-25
Date & Time Sampled:	3/6/2025 14:15	**Sample Size:**	0.947 L	**Analyzed Date:**	23-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2,2',3,4',5,6,6'-HpCB	188	ND		21.1	5.69
2,2',3,4,4',6,6'-HpCB	184	ND		21.1	5.69
2,2',3,3',5,6,6'-HpCB	179	ND		21.1	5.69
2,2',3,3',4,6,6'-HpCB	176	ND		21.1	5.69
2,2',3,4,5,6,6'-HpCB	186	ND		21.1	5.69
2,2',3,3',5,5',6-HpCB	178	ND		21.1	5.69
2,2',3,3',4,5',6-HpCB	175	ND		21.1	5.69
2,2',3,4,4',5,6'-/2,2',3,4',5,5',6-HpCB	182/187	50.9		21.1	5.69
2,2',3,4,4',5',6-HpCB	183	20.3	J	21.1	5.69
2,2',3,4,5,5',6-HpCB	185	ND		21.1	3.69
2,2',3,3',4,5,6'-HpCB	174	31.7		21.1	3.69
2,2',3,4,4',5,6-HpCB	181	ND		21.1	3.69
2,2',3,3',4',5,6-HpCB	177	ND		21.1	3.69
2,2',3,3',4,4',6-HpCB	171	ND		21.1	3.69
2,2',3,3',4,5,6-HpCB	173	ND		21.1	3.69
2,2',3,3',4,5,5'-HpCB	172	ND		21.1	3.69
2,3,3',4,5,5',6-HpCB	192	ND		21.1	3.69
2,2',3,4,4',5,5'-HpCB	180	70.7		21.1	3.69
2,3,3',4',5,5',6-HpCB	193	ND		21.1	3.69
2,3,3',4,4',5',6-HpCB	191	ND		21.1	3.69
2,2',3,3',4,4',5-HpCB	170	29.7		21.1	3.69
2,3,3',4,4',5,6-HpCB	190	ND		21.1	3.69
2,3,3',4,4',5,5'-HpCB	189	ND		21.1	3.69
2,2',3,3',5,5',6,6'-OcCB	202	ND		21.1	4.31
2,2',3,3',4,5',6,6'-OcCB	201	ND		21.1	4.31
2,2',3,4,4',5,6,6'-OcCB	204	ND		21.1	4.31
2,2',3,3',4,4',6,6'-OcCB	197	ND		21.1	4.31
2,2',3,3',4,5,6,6'-OcCB	200	ND		21.1	4.31
2,2',3,3',4,5,5',6-OcCB	198	ND		21.1	4.31
2,2',3,3',4,5,5',6'-OcCB	199	34.1		21.1	4.31
2,2',3,3',4,4',5,6'-/2,2',3,4,4',5,5',6-OcCB	196/203	ND		21.1	4.31
2,2',3,3',4,4',5,6-OcCB	195	ND		21.1	7.16
2,2',3,3',4,4',5,5'-OcCB	194	ND		21.1	7.16
2,3,3',4,4',5,5',6-OcCB	205	ND		21.1	7.16
2,2',3,3',4,5,5',6,6'-NoCB	208	ND		21.1	3.75
2,2',3,3',4,4',5,6,6'-NoCB	207	ND		21.1	3.75
2,2',3,3',4,4',5,5',6-NoCB	206	ND		21.1	5.61
Decachlorobiphenyl	209	ND		21.1	4.14

Sample ID: MW-2

Project:	A5C1099	**Ceres ID:**	19264-003	**Date Received:**	12-Mar-25
Matrix:	Aqueous	**QC Batch #:**	3448	**Date Extracted:**	20-Mar-25
Date & Time Sampled:	3/6/2025 14:15	**Sample Size:**	0.947 L	**Analyzed Date:**	23-Mar-25

Totals	**Chlorination Level**	**Conc. (pg/L)**	**Qual.**	**RL**
Monochlorobiphenyl	MoCB	0		21.1
Dichlorobiphenyl	DiCB	2051		21.1
Trichlorobiphenyl	TrCB	10417		21.1
Tetrachlorobiphenyl	TeCB	12873		21.1
Pentachlorobiphenyl	PeCB	2348		21.1
Hexachlorobiphenyl	HxCB	545		21.1
Heptachlorobiphenyl	HpCB	203		21.1
Octachlorobiphenyl	OcCB	34.1		21.1
Nonachlorobiphenyl	NoCB	0		21.1
Decachlorobiphenyl	DeCB	ND		21.1

Labeled Standards	**Congener #**	**% Rec.**	**Limits**
$^{13}C_{12}$-2-MoCB	1	6.47	5-145
$^{13}C_{12}$-4-MoCB	3	27.7	5-145
$^{13}C_{12}$-2,2'-DiCB	4	41.7	5-145
$^{13}C_{12}$-4,4'-DiCB	15	123	5-145
$^{13}C_{12}$-2,2',6-TrCB	19	96.8	5-145
$^{13}C_{12}$-3,4,4'-TrCB	37	17.0	5-145
$^{13}C_{12}$-2,2',6,6'-TeCB	54	65.1	5-145
$^{13}C_{12}$-3,4,4',5-TeCB	81	91.1	10-145
$^{13}C_{12}$-3,3',4,4'-TeCB	77	98.2	10-145
$^{13}C_{12}$-2,2',4,6,6'-PeCB	104	56.2	10-145
$^{13}C_{12}$-2,3',4,4',5'-PeCB	123	89.5	10-145
$^{13}C_{12}$-2,3',4,4',5-PeCB	118	87.3	10-145
$^{13}C_{12}$-2,3,4,4',5-PeCB	114	81.3	10-145
$^{13}C_{12}$-2,3,3',4,4'-PeCB	105	92.3	10-145
$^{13}C_{12}$-3,3',4,4',5-PeCB	126	92.6	10-145
$^{13}C_{12}$-2,2',4,4',6,6'-HxCB	155	101	10-145
$^{13}C_{12}$-2,3',4,4',5,5'-HxCB	167	97.6	10-145
$^{13}C_{12}$-2,3,3',4,4',5-HxCB	156	92.8	10-145
$^{13}C_{12}$-2,3,3',4,4',5'-HxCB	157	99.6	10-145
$^{13}C_{12}$-3,3',4,4',5,5'-HxCB	169	115	10-145
$^{13}C_{12}$-2,2',3,4',5,6,6'-HpCB	188	64.1	10-145
$^{13}C_{12}$-2,3,3',4,4',5,5'-HpCB	189	89.6	10-145
$^{13}C_{12}$-2,2',3,3',5,5',6,6'-OcCB	202	90.5	10-145
$^{13}C_{12}$-2,3,3',4,4',5,5',6-OcCB	205	84.6	10-145
$^{13}C_{12}$-2,2',3,3',4,5,5',6,6'-NoCB	208	70.0	10-145
$^{13}C_{12}$-2,2',3,3',4,4',5,5',6-NoCB	206	90.6	10-145
$^{13}C_{12}$-Decachlorobiphenyl	209	70.9	10-145
Cleanup Standards			
$^{13}C_{12}$-2,4,4'-TrCB	28	47.4	5-145
$^{13}C_{12}$-2,3,3',5,5'-PeCB	111	105	10-145
$^{13}C_{12}$-2,2',3,3',5,5',6-HpCB	178	86.8	10-145

Sample ID: T1-GW-46

Project ID:	A5C1099	**Ceres ID:**	19264-004	**Date Received:**	3/12/2025
Matrix:	Aqueous	**QC Batch #:**	3448	**Date Extracted:**	3/20/2025
Date & Time Sampled:	3/6/2025 16:16	**Sample Size:**	0.881 L	**Analyzed Date:**	3/23/2025

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2-MoCB	1	84.0		22.7	2.08
3-MoCB	2	ND		22.7	3.49
4-MoCB	3	ND		22.7	3.49
2,2'-/2,6-DiCB	4/10	12.5	J	22.7	8.07
2,4-/2,5-DiCB	7/9	ND		22.7	8.07
2,3'-DiCB	6	69.0		22.7	8.07
2,3-/2,4'-DiCB	5/8	477		22.7	8.07
3,5-DiCB	14	ND		22.7	8.31
3,3'-DiCB	11	2200		22.7	8.31
3,4-/3,4'-DiCB	12/13	ND		22.7	8.31
4,4'-DiCB	15	205		22.7	8.31
2,2',6-TrCB	19	123		22.7	4.97
2,4,6-TrCB	30	ND		22.7	4.97
2,2',5-TrCB	18	2420		22.7	4.97
2,2',4-TrCB	17	854		22.7	4.97
2,3,6-/2,3',6-TrCB	24/27	201		22.7	4.97
2,2',3-/2,4',6-TrCB	16/32	1830		22.7	4.97
2',3,5-TrCB	34	ND		22.7	5.86
2,3,5-TrCB	23	ND		22.7	5.86
2,4,5-TrCB	29	ND		22.7	5.86
2,3',5-TrCB	26	440		22.7	5.86
2,3',4-TrCB	25	222		22.7	5.86
2,4',5-TrCB	31	2380		22.7	5.86
2,4,4'-TrCB	28	2670		22.7	5.86
2,3,3'-/2,3,4-/2',3,4-TrCB	20/21/33	2290		22.7	5.86
2,3,4'-TrCB	22	1060		22.7	5.86
3,3',5-TrCB	36	ND		22.7	5.86
3,4',5-TrCB	39	ND		22.7	5.86
3,4,5-TrCB	38	142		22.7	5.86
3,3',4-TrCB	35	ND		22.7	5.86
3,4,4'-TrCB	37	250		22.7	5.86
2,2',6,6'-TeCB	54	ND		22.7	3.75
2,2',4,6-TeCB	50	ND		22.7	3.75
2,2',5,6'-TeCB	53	400		22.7	3.75
2,2',4,6'-TeCB	51	151		22.7	3.75
2,2',3,6-TeCB	45	477		22.7	3.75
2,2',3,6'-TeCB	46	240		22.7	3.75
2,2',5,5'-/2,3',4,6-TeCB	52/69	2750		22.7	3.75
2,3',5',6-TeCB	73	ND		22.7	3.75
2,2',3-5-/2,2',4,5'-TeCB	43/49	2530		22.7	3.75
2,2',4,4'-TeCB	47	818		22.7	3.75
2,2',4,5-/2,4,4',6-TeCB	48/75	867		22.7	3.75
2,3,5,6-TeCB	65	ND		22.7	3.75
2,3,4,6-TeCB	62	ND		22.7	3.75

Sample ID: T1-GW-46

Project:	A5C1099	**Ceres ID:**	19264-004	**Date Received:**	12-Mar-25
Matrix:	Aqueous	**QC Batch #:**	3448	**Date Extracted:**	20-Mar-25
Date & Time Sampled:	3/6/2025 16:16	**Sample Size:**	0.881 L	**Analyzed Date:**	23-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2,2',3,5'-TeCB	44	1900		22.7	3.75
2,2',3,4'-/2,3,3',6-TeCB	42/59	918		22.7	3.75
2,2',3,4-/2,3,4',6-/2,3',4',6-/2,3',5,5'-TeCB	41/64/71/72	1660		22.7	3.75
2,3',4,5'-TeCB	68	ND		22.7	3.75
2,2',3,3'-TeCB	40	521		22.7	3.75
2,3,3',5-TeCB	57	ND		22.7	3.75
2,3',4,5-TeCB	67	97.7		22.7	3.75
2,3,3',5'-TeCB	58	ND		22.7	3.75
2,3,4',5-TeCB	63	95.6		22.7	3.75
2,4,4',5-TeCB	74	871		22.7	3.75
2,3,4,5-/2,3',4',5-TeCB	61/70	1840		22.7	3.75
2,3',4,4'-/2',3,4,5-TeCB	66/76	1540		22.7	3.75
3,3',5,5'-TeCB	80	ND		22.7	3.75
2,3,3',4-TeCB	55	56.6		22.7	3.75
2,3,3',4'-/2,3,4,4'-TeCB	56/60	849		22.7	3.59
3,3',4,5'-TeCB	79	ND		22.7	3.59
3,3',4,5-TeCB	78	ND		22.7	3.59
3,4,4',5-TeCB	81	ND		22.7	3.59
3,3',4,4'-TeCB	77	32.5		22.7	5.22
2,2',4,6,6'-PeCB	104	ND		22.7	4.75
2,2',3,6,6'-PeCB	96	ND		22.7	4.75
2,2',4,5'6-PeCB	103	ND		22.7	4.75
2,2',4,4',6-PeCB	100	ND		22.7	4.75
2,2',3,5,6'-PeCB	94	ND		22.7	4.75
2,2',3,5,6-/2,2',3,5',6-/2,2',3',4,6-/2,2',4,5,6'-PeCB	93/95/98/102	985		22.7	4.75
2,2',3,4,6-PeCB	88/91	252		22.7	4.75
2,3',4,5',6-PeCB	121	ND		22.7	4.75
2,2',3,3',6-/2,2',3,5,5'-PeCB	84/92	347		22.7	3.46
2,2',3,4,6'-PeCB	89	ND		22.7	3.46
2,2',3,4',5-/2,2',4,5,5'-PeCB	90/101	642		22.7	3.46
2,3,3',5',6-PeCB	113	ND		22.7	3.46
2,2',4,4',5-PeCB	99	240		22.7	3.46
2,2',3,3',5-PeCB	83	ND		22.7	3.46
2,3,3',5,6-/2,3',4,4',6-PeCB	112/119	ND		22.7	3.46
2,3,3',4,6-PeCB	109	ND		22.7	3.46
2,2',3',4,5-PeCB	97	218		22.7	3.46
2,2',3,4,5-PeCB	86	ND		22.7	3.46
2,2',3,4,5'-/2,3,4',5,6-/2',3,4,5,6'-PeCB	87/117/125	201		22.7	3.46
2,3,3',5,5'-/2,3,4,4',6-PeCB	111/115	ND		22.7	3.46
2,2',3,4,4'-/2,3,4,5,6-PeCB	85/116	114		22.7	3.46
2,3',4,5,5'-PeCB	120	ND		22.7	3.46
2-3,3',4',6-PeCB	110	648		22.7	3.46

Sample ID: T1-GW-46

Project:	A5C1099	**Ceres ID:**	19264-004	**Date Received:**	12-Mar-25
Matrix:	Aqueous	**QC Batch #:**	3448	**Date Extracted:**	20-Mar-25
Date & Time Sampled:	3/6/2025 16:16	**Sample Size:**	0.881 L	**Analyzed Date:**	23-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2,2',3,3',4-PeCB	82	122		22.7	3.46
2',3,4,5,5'-PeCB	124	ND		22.7	3.46
2,3,3',4',5-/2,3,3',4,5'-PeCB	107/108	ND		22.7	3.46
2,3',4,4',5'-PeCB	123	ND		22.7	3.46
2,3,3',4,5-/2,3',4,4',5-PeCB	106/118	357		22.7	5.58
2,3,4,4',5-PeCB	114	ND		22.7	3.25
2',3,3',4,5-PeCB	122	ND		22.7	3.25
2,3,3',4,4'-PeCB	105	136		22.7	4.87
3,3',4,5,5'-PeCB	127	ND		22.7	4.87
3,3',4,4',5-PeCB	126	ND		22.7	5.73
2,2',4,4',6,6'-HxCB	155	ND		22.7	4.86
2,2',3,4',6,6'-HxCB	150	ND		22.7	4.86
2,2',3,5,6,6'-HxCB	152	ND		22.7	4.86
2,2',3,4,6,6'-HxCB	145	ND		22.7	4.86
2,2',3,3',6,6'-HxCB	136	60.8		22.7	4.86
2,2',3,4',5,6'-HxCB	148	ND		22.7	4.86
2,2',4,4',5',6-HxCB	154	ND		22.7	4.86
2,2',3,5,5',6-HxCB	151	110		22.7	4.86
2,2',3,3',5,6'-HxCB	135	ND		22.7	4.86
2,2',3,4,5',6-HxCB	144	ND		22.7	4.86
2,2',3,4',5,6-HxCB	147	ND		22.7	4.86
2,2',3,4,4',6-/2,2',3,4',5',6-HxCB	139/149	308		22.7	4.86
2,2',3,4,4',6'-HxCB	140	ND		22.7	4.86
2,2',3,3',5,6-/2,2',3,4,5,6'-HxCB	134/143	24.0		22.7	5.19
2,2',3,3',4,6-/2,2',3,4,5,6-HxCB	131/142	15.0	J	22.7	5.19
2,2',3,3',5,5'-HxCB	133	ND		22.7	5.19
2,2',3,3',4,6'-/2,2',3,4',5,5'-HxCB	132/146	57.9		22.7	5.19
2,3,3',4,5',6-/2,3,3',5,5',6-HxCB	161/165	108.0		22.7	5.19
2,2',4,4',5,5'-HxCB	153	217		22.7	5.19
2,3',4,4',5',6-HxCB	168	ND		22.7	5.19
2,2',3,4,5,5'-HxCB	141	57.3		22.7	5.19
2,2',3,4,4',5-HxCB	137	ND		22.7	5.19
2,2',3,3',4,5'-HxCB	130	36.1		22.7	5.19
2,2',3,4,4',5-/2,3,3',4',5,6-/2,3,3',4',5',6-HxCB	138/163/164	312		22.7	5.19
2,3,3',4,4',6-/2,3,3',4,5,6-HxCB	158/160	38.4		22.7	5.19
2,2',3,3',4,5-HxCB	129	ND		22.7	5.19
2,3,4,4',5,6-HxCB	166	ND		22.7	5.19
2,3,3',4,5,5'-HxCB	159	ND		22.7	5.19
2,2',3,3',4,4'-/2,3,3',4',5,5'-HxCB	128/162	59.1		22.7	5.19
2,3',4,4',5,5'-HxCB	167	ND		22.7	5.19
2,3,3',4,4',5-HxCB	156	29.1		22.7	4.13
2,3,3',4,4',5'-HxCB	157	ND		22.7	6.07
3,3',4,4',5,5'-HxCB	169	ND		22.7	5.20

Sample ID: T1-GW-46

Project:	A5C1099	**Ceres ID:**	19264-004	**Date Received:**	12-Mar-25
Matrix:	Aqueous	**QC Batch #:**	3448	**Date Extracted:**	20-Mar-25
Date & Time Sampled:	3/6/2025 16:16	**Sample Size:**	0.881 L	**Analyzed Date:**	23-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2,2',3,4',5,6,6'-HpCB	188	ND		22.7	5.69
2,2',3,4,4',6,6'-HpCB	184	ND		22.7	5.69
2,2',3,3',5,6,6'-HpCB	179	46.9		22.7	5.69
2,2',3,3',4,6,6'-HpCB	176	ND		22.7	5.69
2,2',3,4,5,6,6'-HpCB	186	ND		22.7	5.69
2,2',3,3',5,5',6-HpCB	178	ND		22.7	5.69
2,2',3,3',4,5',6-HpCB	175	ND		22.7	5.69
2,2',3,4,4',5,6'-/2,2',3,4',5,5',6-HpCB	182/187	158		22.7	5.69
2,2',3,4,4',5',6-HpCB	183	63.9		22.7	5.69
2,2',3,4,5,5',6-HpCB	185	ND		22.7	3.69
2,2',3,3',4,5,6'-HpCB	174	61.6		22.7	3.69
2,2',3,4,4',5,6-HpCB	181	ND		22.7	3.69
2,2',3,3',4',5,6-HpCB	177	49.8		22.7	3.69
2,2',3,3',4,4',6-HpCB	171	ND		22.7	3.69
2,2',3,3',4,5,6-HpCB	173	ND		22.7	3.69
2,2',3,3',4,5,5'-HpCB	172	ND		22.7	3.69
2,3,3',4,5,5',6-HpCB	192	ND		22.7	3.69
2,2',3,4,4',5,5'-HpCB	180	170		22.7	3.69
2,3,3',4',5,5',6-HpCB	193	ND		22.7	3.69
2,3,3',4,4',5',6-HpCB	191	ND		22.7	3.69
2,2',3,3',4,4',5-HpCB	170	65.4		22.7	3.69
2,3,3',4,4',5,6-HpCB	190	ND		22.7	3.69
2,3,3',4,4',5,5'-HpCB	189	ND		22.7	3.69
2,2',3,3',5,5',6,6'-OcCB	202	ND		22.7	4.31
2,2',3,3',4,5',6,6'-OcCB	201	ND		22.7	4.31
2,2',3,4,4',5,6,6'-OcCB	204	ND		22.7	4.31
2,2',3,3',4,4',6,6'-OcCB	197	ND		22.7	4.31
2,2',3,3',4,5,6,6'-OcCB	200	ND		22.7	4.31
2,2',3,3',4,5,5',6-OcCB	198	ND		22.7	4.31
2,2',3,3',4,5,5',6'-OcCB	199	90.0		22.7	4.31
2,2',3,3',4,4',5,6'-/2,2',3,4,4',5,5',6-OcCB	196/203	81.7		22.7	4.31
2,2',3,3',4,4',5,6-OcCB	195	ND		22.7	7.16
2,2',3,3',4,4',5,5'-OcCB	194	52.0		22.7	7.16
2,3,3',4,4',5,5',6-OcCB	205	ND		22.7	7.16
2,2',3,3',4,5,5',6,6'-NoCB	208	40.3		22.7	3.75
2,2',3,3',4,4',5,6,6'-NoCB	207	ND		22.7	3.75
2,2',3,3',4,4',5,5',6-NoCB	206	95.0		22.7	5.61
Decachlorobiphenyl	209	114		22.7	4.14

Sample ID: T1-GW-46

Project:	A5C1099	**Ceres ID:**	19264-004	**Date Received:**	12-Mar-25
Matrix:	Aqueous	**QC Batch #:**	3448	**Date Extracted:**	20-Mar-25
Date & Time Sampled:	3/6/2025 16:16	**Sample Size:**	0.881 L	**Analyzed Date:**	23-Mar-25

Totals	**Chlorination Level**	**Conc. (pg/L)**	**Qual.**	**RL**
Monochlorobiphenyl	MoCB	84.0		22.7
Dichlorobiphenyl	DiCB	2964		22.7
Trichlorobiphenyl	TrCB	14882		22.7
Tetrachlorobiphenyl	TeCB	18614		22.7
Pentachlorobiphenyl	PeCB	4262		22.7
Hexachlorobiphenyl	HxCB	1433		22.7
Heptachlorobiphenyl	HpCB	616		22.7
Octachlorobiphenyl	OcCB	224		22.7
Nonachlorobiphenyl	NoCB	135		22.7
Decachlorobiphenyl	DeCB	114		22.7

Labeled Standards	**Congener #**	**% Rec.**	**Limits**
$^{13}C_{12}$-2-MoCB	1	11.9	5-145
$^{13}C_{12}$-4-MoCB	3	25.6	5-145
$^{13}C_{12}$-2,2'-DiCB	4	34.5	5-145
$^{13}C_{12}$-4,4'-DiCB	15	68.1	5-145
$^{13}C_{12}$-2,2',6-TrCB	19	60.8	5-145
$^{13}C_{12}$-3,4,4'-TrCB	37	9.04	5-145
$^{13}C_{12}$-2,2',6,6'-TeCB	54	41.8	5-145
$^{13}C_{12}$-3,4,4',5-TeCB	81	53.4	10-145
$^{13}C_{12}$-3,3',4,4'-TeCB	77	54.4	10-145
$^{13}C_{12}$-2,2',4,6,6'-PeCB	104	43.1	10-145
$^{13}C_{12}$-2,3',4,4',5'-PeCB	123	68.2	10-145
$^{13}C_{12}$-2,3',4,4',5-PeCB	118	64.4	10-145
$^{13}C_{12}$-2,3,4,4',5-PeCB	114	58.0	10-145
$^{13}C_{12}$-2,3,3',4,4'-PeCB	105	61.5	10-145
$^{13}C_{12}$-3,3',4,4',5-PeCB	126	60.7	10-145
$^{13}C_{12}$-2,2',4,4',6,6'-HxCB	155	62.3	10-145
$^{13}C_{12}$-2,3',4,4',5,5'-HxCB	167	67.7	10-145
$^{13}C_{12}$-2,3,3',4,4',5-HxCB	156	65.3	10-145
$^{13}C_{12}$-2,3,3',4,4',5'-HxCB	157	69.9	10-145
$^{13}C_{12}$-3,3',4,4',5,5'-HxCB	169	76.3	10-145
$^{13}C_{12}$-2,2',3,4',5,6,6'-HpCB	188	42.8	10-145
$^{13}C_{12}$-2,3,3',4,4',5,5'-HpCB	189	66.7	10-145
$^{13}C_{12}$-2,2',3,3',5,5',6,6'-OcCB	202	64.7	10-145
$^{13}C_{12}$-2,3,3',4,4',5,5',6-OcCB	205	57.9	10-145
$^{13}C_{12}$-2,2',3,3',4,5,5',6,6'-NoCB	208	52.6	10-145
$^{13}C_{12}$-2,2',3,3',4,4',5,5',6-NoCB	206	61.9	10-145
$^{13}C_{12}$-Decachlorobiphenyl	209	46.9	10-145
Cleanup Standards			
$^{13}C_{12}$-2,4,4'-TrCB	28	42.1	5-145
$^{13}C_{12}$-2,3,3',5,5'-PeCB	111	111	10-145
$^{13}C_{12}$-2,2',3,3',5,5',6-HpCB	178	78.3	10-145

Section VI: Sample Tracking

SUBCONTRACT ORDER

Apex Laboratories

A5C1099

AKC 3/10/25

RAM

SENDING LABORATORY:

Apex Laboratories
6700 S.W. Sandburg Street
Tigard, OR 97223
Phone: (503) 718-2323
Fax: (503) 336-0745
Project Manager: Darrell Auvil

RECEIVING LABORATORY:

Ceres Analytical Laboratory, Inc
4919 Windplay Drive, Suite 1
El Dorado Hills, CA 95762
Phone :(916) 932-5011
Fax: -9

Sample Name: T1-GW-34 **Water** **Sampled: 03/06/25 13:50** (A5C1099-01)

Analysis	Due	Expires	Comments
1668C PCB Congeners (SUB)	03/20/25 17:00	03/06/26 13:50	
Containers Supplied:			
(J)1 L Amber Glass - Non Preserved			

Sample Name: MW-1 **Water** **Sampled: 03/06/25 13:00** (A5C1099-02)

Analysis	Due	Expires	Comments
1668C PCB Congeners (SUB)	03/20/25 17:00	03/06/26 13:00	
Containers Supplied:			
(J)1 L Amber Glass - Non Preserved			

Strong Odor

Sample Name: MW-2 **Water** **Sampled: 03/06/25 14:15** (A5C1099-03)

Analysis	Due	Expires	Comments
1668C PCB Congeners (SUB)	03/20/25 17:00	03/06/26 14:15	
Containers Supplied:			
(J)1 L Amber Glass - Non Preserved			

Sample Name: T1-GW-46 **Water** **Sampled: 03/06/25 16:16** (A5C1099-04)

Analysis	Due	Expires	Comments
1668C PCB Congeners (SUB)	03/20/25 17:00	03/06/26 16:16	
Containers Supplied:			
(J)1 L Amber Glass - Non Preserved			

* Standard TAT *

Released By	Date	Received By	Date
	3/11/25	UPS (Shipper)	
UPS (Shipper)			
Released By	Date	Received By	Date
			3/12/25 1132

Sample Receipt Check List Logged by: _____ (initials)

Ceres ID: 19264	Date/Time: 3/12/25 1132
Client Project ID: A5C1099	Received Temp: 2.4 °C Acceptable: (Y) / N
Chain of Custody Relinquished by signed?	(Y) / N
Chain of Custody Received by signed?	(Y) / N
Custody Seals? Present?	Y / N
Intact?	Y / N
NA:	(NA)
Unlabeled / Illegible Samples	Y / (N)
Proper Containers:	(Y) / N
Preservation Acceptable (Chemical or Temperature)?	(Y) / N
Drinking Water, Sodium Thiosulfate present?	Y / (N) / NA
Residual Cl?	Y / (N) / NA
Aqueous sample pH: 8, 7, 7	NA
List COC discrepancies: JA 3/12/25	
List Damaged Samples: JA 3/12/25	

Section VII: Qualifiers/Abbreviations

J	Concentration found below the lower quantitation limit but greater than zero.
B	Analyte present in the associated Method Blank.
E	Concentration found exceeds the Calibration range of the HRGC/HRMS.
D	This analyte concentration was calculated from a dilution.
X	The concentration found is the estimated maximum possible concentration due to chlorinated diphenyl ethers present in the sample.
H	Recovery limits exceeded. See cover letter.
*****	Results taken from dilution.
I	Interference. See cover letter.
Conc.	Concentration Found
DL	Calculated Detection Limit
ND	Non-Detect
% Rec.	Percent Recovery

March 31, 2025 Service Request No:K2502728

Darrell Auvil
Apex Laboratories
6700 SW Sandburg St.
Tigard, OR 97223

Laboratory Results for: A5C1099

Dear Darrell,

Enclosed are the results of the sample(s) submitted to our laboratory March 14, 2025
For your reference, these analyses have been assigned our service request number **K2502728.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3260. You may also contact me via email at Luke.Rahn@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Luke Rahn
Project Manager

ADDRESS 1317 S. 13th Avenue, Kelso, WA 98626
PHONE +1 360 577 7222 | FAX +1 360 636 1068
ALS Group USA, Corp.
dba ALS Environmental

Narrative Documents

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

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Client: Apex Laboratories
Project: A5C1099
Sample Matrix: Water

Service Request: K2502728
Date Received: 03/14/2025

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

Four water samples were received for analysis at ALS Environmental on 03/14/2025. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

General Chemistry:

No significant anomalies were noted with this analysis.

Approved by _____ Date 03/31/2025

SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: T1-GW-34			Lab ID: K2502728-001			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Carbon, Total Organic (TOC)	53.0		1.0	5.0	mg/L	SM 5310 B

CLIENT ID: MW-1			Lab ID: K2502728-002			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Carbon, Total Organic (TOC)	10.4		0.4	2.0	mg/L	SM 5310 B

CLIENT ID: MW-2			Lab ID: K2502728-003			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Carbon, Total Organic (TOC)	20		2	10	mg/L	SM 5310 B

CLIENT ID: T1-GW-46			Lab ID: K2502728-004			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Carbon, Total Organic (TOC)	476		4	20	mg/L	SM 5310 B

Sample Receipt Information

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

Client: Apex Laboratories **Service Request:**K2502728

Project: A5C1099

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
K2502728-001	T1-GW-34	3/6/2025	1350
K2502728-002	MW-1	3/6/2025	1300
K2502728-003	MW-2	3/6/2025	1415
K2502728-004	T1-GW-46	3/6/2025	1616

SUBCONTRACT ORDER

Apex Laboratories

A5C1099

W25027 28 JS

ACC 3/10/25

SENDING LABORATORY:

Apex Laboratories
6700 S.W. Sandburg Street
Tigard, OR 97223
Phone: (503) 718-2323
Fax: (503) 336-0745
Project Manager: Darrell Auvil

RECEIVING LABORATORY:

ALS Group USA - Kelso
1317 S 13th Avenue
Kelso, WA 98626
Phone :(360) 577-7222
Fax: (360) 636-1068

Sample Name: T1-GW-34 **Sampled: 03/06/25 13:50** (A5C1099-01)

Analysis	Due	Expires	Comments
Total Organic Carbon - H2O (5310C)	03/20/25 17:00	04/03/25 13:50	
Containers Supplied:			
(E)250 mL Poly - Sulfuric (H2SO4)			

Sample Name: MW-1 **Sampled: 03/06/25 13:00** (A5C1099-02)

Analysis	Due	Expires	Comments
Total Organic Carbon - H2O (5310C)	03/20/25 17:00	04/03/25 13:00	
Containers Supplied:			
(E)250 mL Poly - Sulfuric (H2SO4)			

Sample Name: MW-2 **Strong Odor** **Sampled: 03/06/25 14:15** (A5C1099-03)

Analysis	Due	Expires	Comments
Total Organic Carbon - H2O (5310C)	03/20/25 17:00	04/03/25 14:15	
Containers Supplied:			
(E)250 mL Poly - Sulfuric (H2SO4)			

Sample Name: T1-GW-46 **Sampled: 03/06/25 16:16** (A5C1099-04)

Analysis	Due	Expires	Comments
Total Organic Carbon - H2O (5310C)	03/20/25 17:00	04/03/25 16:16	
Containers Supplied:			
(E)250 mL Poly - Sulfuric (H2SO4)			

* Standard TAT *

Released By	Date	Received By	Date
[signature]	3/14/25 1106	M. Mulligan	3/14/25 1106
M. Mulligan	3/14/25 1330	[signature]	03/14/25 1330

Cooler Receipt and Preservation Form

PM UH

Client APEX Service Request K25 02728

Received: 03 14 25 Opened: 03 14 25 By: AO Unloaded: 03 14 25 By: AO

1. Samples were received via? *USPS* *Fed Ex* *UPS* *DHL* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) *Cooler* *Box* *Envelope* *Other* _____ *NA*
3. Were custody seals on coolers? NA Y N If yes, how many and where? _____
   If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Temp Blank	Sample Temp	IR Gun	Cooler #/COC ID (NA)	Out of temp indicate with "X"	PM Notified If out of temp	Tracking Number (NA)	Filed
2.4 →		IR02					
3.8 →		1					
—	3.0	1					

4. Was a Temperature Blank present in cooler? NA Y N If yes, notate the temperature in the appropriate column below:
   If no, take the temperature of a representative sample bottle contained within the cooler; notate in the column "Sample Temp":
5. Were samples received within the method specified temperature ranges? NA Y N
   If no, were they received on ice and same day as collected? If not, notate the cooler # below and notify the PM. NA Y N

If applicable, tissue samples were received: *Frozen* *Partially Thawed* *Thawed*

6. Packing material: *Inserts* *Baggies* *Bubble Wrap* *Gel Packs* *Wet Ice* *Dry Ice* *Sleeves* _____
7. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
8. Were samples received in good condition (unbroken) NA Y N
9. Were all sample labels complete (ie, analysis, preservation, etc.)? NA Y N
10. Did all sample labels and tags agree with custody papers? NA Y N
11. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
12. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* NA Y N
13. Were VOA vials received without headspace? *Indicate in the table below.* NA Y N
14. Was C12/Res negative? NA Y N
15. Were samples received within method specified time limit? If not, notate the error below and notify the PM. NA Y N
16. Were 100mL sterile microbiology bottles filled exactly to the 100mL mark? NA Y N Underfilled Overfilled

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count Bottle Type	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, Resolutions: _____

Q:\ENVIRONMENTAL\1 SOP & Policy Statements\SMO\CRF Update 2025-02-28.docx Updated: BJD 2/28/25

Miscellaneous Forms

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1317 South 13th Avenue, Kelso, WA 98626
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Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated value.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.
H	The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

#	The control limit criteria is not applicable.
J	The result is an estimated value.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.
Q	See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimated value over the calibration range.
J	The result is an estimated value between the MDL and the MRL.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses

Agency	Web Site	Number
Alaska DEH	http://dec.alaska.gov/eh/lab/cs/csapproval.htm	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L16-58-R4
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	http://health.hawaii.gov/	-
ISO 17025	http://www.pjlabs.com/	L16-57
Louisiana DEQ	http://www.deq.louisiana.gov/page/la-lab-accreditation	03016
Maine DHS	http://www.maine.gov/dhhs/	WA01276
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/enforcement/oqa.html	WA005
New York - DOH	https://www.wadsworth.org/regulatory/elap	12060
North Carolina DEQ	https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/EnvironmentalLabCertification/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wyoming (EPA Region 8)	https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water-	-
Kelso Laboratory Website	[illegible]	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.
Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/anlayte is offered by that state.

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client:	Apex Laboratories	**Service Request:**	K2502728
Project:	A5C1099/		

Sample Name:	T1-GW-34	**Date Collected:**	03/6/25
Lab Code:	K2502728-001	**Date Received:**	03/14/25
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
SM 5310 B		MSPECHT

Sample Name:	MW-1	**Date Collected:**	03/6/25
Lab Code:	K2502728-002	**Date Received:**	03/14/25
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
SM 5310 B		MSPECHT

Sample Name:	MW-2	**Date Collected:**	03/6/25
Lab Code:	K2502728-003	**Date Received:**	03/14/25
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
SM 5310 B		MSPECHT

Sample Name:	T1-GW-46	**Date Collected:**	03/6/25
Lab Code:	K2502728-004	**Date Received:**	03/14/25
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
SM 5310 B		MSPECHT

Sample Results

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
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General Chemistry

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Analytical Report

Client:	Apex Laboratories	**Service Request:**	K2502728
Project:	A5C1099	**Date Collected:**	03/06/25 13:50
Sample Matrix:	Water	**Date Received:**	03/14/25 13:30
Sample Name:	T1-GW-34	**Basis:**	NA
Lab Code:	K2502728-001		

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 B	**53.0**	mg/L	5.0	1.0	10	03/27/25 14:00	

Client:	Apex Laboratories	**Service Request:**	K2502728
Project:	A5C1099	**Date Collected:**	03/06/25 13:00
Sample Matrix:	Water	**Date Received:**	03/14/25 13:30
Sample Name:	MW-1	**Basis:**	NA
Lab Code:	K2502728-002		

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 B	**10.4**	mg/L	2.0	0.4	4	03/27/25 14:00	

Client:	Apex Laboratories	**Service Request:**	K2502728
Project:	A5C1099	**Date Collected:**	03/06/25 14:15
Sample Matrix:	Water	**Date Received:**	03/14/25 13:30
Sample Name:	MW-2	**Basis:**	NA
Lab Code:	K2502728-003		

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 B	**20**	mg/L	10	2	20	03/27/25 14:00	

Client:	Apex Laboratories	**Service Request:**	K2502728
Project:	A5C1099	**Date Collected:**	03/06/25 16:16
Sample Matrix:	Water	**Date Received:**	03/14/25 13:30
Sample Name:	T1-GW-46	**Basis:**	NA
Lab Code:	K2502728-004		

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 B	**476**	mg/L	20	4	40	03/27/25 14:00	

QC Summary Forms

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
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General Chemistry

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Client:	Apex Laboratories	**Service Request:**	K2502728
Project:	A5C1099	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	K2502728-MB		

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 B	ND U	mg/L	0.50	0.10	1	03/27/25 14:00	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	Apex Laboratories	**Service Request:**	K2502728
Project:	A5C1099	**Date Analyzed:**	03/27/25
Sample Matrix:	Water	**Date Extracted:**	NA

Lab Control Sample Summary
Carbon, Total Organic (TOC)

Analysis Method:	SM 5310 B	**Units:**	mg/L
Prep Method:	None	**Basis:**	NA
		Analysis Lot:	874185

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K2502728-LCS	23.7	25.0	95	85-115

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

ANALYTICAL REPORT

AMENDED REPORT

Thursday, May 29, 2025

Steve Misner
Apex Companies, LLC
15618 SW 72nd Ave
Tigard, OR 97224

RE: A5C1123 - Willamette Cove GW SCE - 1056-17

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 A5C1123, which was received by the laboratory on 3/7/2025 at 2:31:00PM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: DAuvil@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 5.4 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

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager

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

ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1123 - 05 29 25 1600**

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
T1-GW-58	**A5C1123-01**	**Water**	**03/07/25 09:58**	**03/07/25 14:31**
T1-GW-70	**A5C1123-02**	**Water**	**03/07/25 13:28**	**03/07/25 14:31**

Apex Laboratories

Darrell Auvil, Client Services Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

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

ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1123 - 05 29 25 1600**

ANALYTICAL CASE NARRATIVE

A5C1123 **Apex Laboratories**

Amended Report Revision 2: This report supersedes all previous reports.

Reporting the Detection Limits (DL)-

The final report has been amended to report PAH data by EPA 8270E, to the detection limits (DL).

Darrell Auvil
Client Services Manager
5/29/2025

Amended Report Revision 1:

Reporting the Detection Limits (DL)-

This report supersedes all previous reports.

The final report has been amended to report Chlorinated Pesticides data by EPA 8081B, to the detection limits (DL).

Darrell Auvil
Client Services Manager
5/9/2025

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager

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

ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1123 - 05 29 25 1600**

ANALYTICAL SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
T1-GW-58 (A5C1123-01RE1)				**Matrix: Water**		**Batch: 25C0849**		**C-05, DCNT**
2,4'-DDD	ND	0.00990	0.0198	ug/L	1	03/24/25 17:23	EPA 8081B	
2,4'-DDE	ND	0.00990	0.0198	ug/L	1	03/24/25 17:23	EPA 8081B	
2,4'-DDT	ND	0.00990	0.0198	ug/L	1	03/24/25 17:23	EPA 8081B	
4,4'-DDD	ND	0.00990	0.0198	ug/L	1	03/24/25 17:23	EPA 8081B	
4,4'-DDE	ND	0.00990	0.0198	ug/L	1	03/24/25 17:23	EPA 8081B	
4,4'-DDT	ND	0.00990	0.0198	ug/L	1	03/24/25 17:23	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr)		*Recovery:*	*68 %*	*Limits: 25-140 %*	*1*	*03/24/25 17:23*	*EPA 8081B*	
Decachlorobiphenyl (Surr)			*64 %*	*30-135 %*	*1*	*03/24/25 17:23*	*EPA 8081B*	
T1-GW-70 (A5C1123-02RE1)				**Matrix: Water**		**Batch: 25C0849**		**C-05, DCNT**
2,4'-DDD	ND	0.0100	0.0200	ug/L	1	03/24/25 17:40	EPA 8081B	
2,4'-DDE	ND	0.0100	0.0200	ug/L	1	03/24/25 17:40	EPA 8081B	
2,4'-DDT	ND	0.0100	0.0200	ug/L	1	03/24/25 17:40	EPA 8081B	
4,4'-DDD	ND	0.0100	0.0200	ug/L	1	03/24/25 17:40	EPA 8081B	
4,4'-DDE	ND	0.0100	0.0200	ug/L	1	03/24/25 17:40	EPA 8081B	
4,4'-DDT	ND	0.0100	0.0200	ug/L	1	03/24/25 17:40	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr)		*Recovery:*	*60 %*	*Limits: 25-140 %*	*1*	*03/24/25 17:40*	*EPA 8081B*	
Decachlorobiphenyl (Surr)			*72 %*	*30-135 %*	*1*	*03/24/25 17:40*	*EPA 8081B*	

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Darrell Auvil, Client Services Manager

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6700 S.W. Sandburg Street
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503-718-2323
ORELAP ID: OR100062

ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: Willamette Cove GW SCE	
15618 SW 72nd Ave	Project Number: 1056-17	Report ID:
Tigard, OR 97224	Project Manager: Steve Misner	A5C1123 - 05 29 25 1600

ANALYTICAL SAMPLE RESULTS

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
T1-GW-58 (A5C1123-01RE1)				**Matrix: Water**		**Batch: 25C0446**		**DCNT**
Acenaphthene	**1.47**	0.0181	0.0362	ug/L	1	03/12/25 18:43	EPA 8270E LVI	
Acenaphthylene	**0.807**	0.0181	0.0362	ug/L	1	03/12/25 18:43	EPA 8270E LVI	
Anthracene	**0.305**	0.0181	0.0362	ug/L	1	03/12/25 18:43	EPA 8270E LVI	
Benz(a)anthracene	**0.0308**	0.00905	0.0181	ug/L	1	03/12/25 18:43	EPA 8270E LVI	
Benzo(a)pyrene	**0.0136**	0.00905	0.0181	ug/L	1	03/12/25 18:43	EPA 8270E LVI	**J**
Benzo(b)fluoranthene	**0.0136**	0.00905	0.0181	ug/L	1	03/12/25 18:43	EPA 8270E LVI	**J**
Benzo(k)fluoranthene	ND	0.00905	0.0181	ug/L	1	03/12/25 18:43	EPA 8270E LVI	
Benzo(g,h,i)perylene	ND	0.0181	0.0362	ug/L	1	03/12/25 18:43	EPA 8270E LVI	
Chrysene	**0.0457**	0.00905	0.0181	ug/L	1	03/12/25 18:43	EPA 8270E LVI	
Dibenz(a,h)anthracene	ND	0.00905	0.0181	ug/L	1	03/12/25 18:43	EPA 8270E LVI	
Fluoranthene	**0.450**	0.0181	0.0362	ug/L	1	03/12/25 18:43	EPA 8270E LVI	
Fluorene	**1.19**	0.0181	0.0362	ug/L	1	03/12/25 18:43	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	ND	0.0181	0.0181	ug/L	1	03/12/25 18:43	EPA 8270E LVI	
Phenanthrene	**2.33**	0.0362	0.0724	ug/L	1	03/12/25 18:43	EPA 8270E LVI	
Pyrene	**0.442**	0.0181	0.0362	ug/L	1	03/12/25 18:43	EPA 8270E LVI	
Dibenzofuran	**0.280**	0.0181	0.0362	ug/L	1	03/12/25 18:43	EPA 8270E LVI	
Surrogate: Acenaphthylene-d8 (Surr)		*Recovery: 84 %*	*Limits: 78-134 %*		*1*	*03/12/25 18:43*	*EPA 8270E LVI*	
Benzo(a)pyrene-d12 (Surr)		*102 %*	*80-132 %*		*1*	*03/12/25 18:43*	*EPA 8270E LVI*	
T1-GW-58 (A5C1123-01RE2)				**Matrix: Water**		**Batch: 25C0446**		**DCNT**
1-Methylnaphthalene	**1.06**	0.362	0.724	ug/L	10	03/13/25 16:03	EPA 8270E LVI	
2-Methylnaphthalene	**1.30**	0.362	0.724	ug/L	10	03/13/25 16:03	EPA 8270E LVI	
Naphthalene	**12.9**	0.362	0.724	ug/L	10	03/13/25 16:03	EPA 8270E LVI	
T1-GW-70 (A5C1123-02)				**Matrix: Water**		**Batch: 25C0329**		**DCNT**
Acenaphthene	ND	0.0349	0.0349	ug/L	1	03/10/25 19:34	EPA 8270E LVI	
Acenaphthylene	ND	0.0175	0.0349	ug/L	1	03/10/25 19:34	EPA 8270E LVI	
Anthracene	ND	0.0175	0.0349	ug/L	1	03/10/25 19:34	EPA 8270E LVI	
Benz(a)anthracene	ND	0.00874	0.0175	ug/L	1	03/10/25 19:34	EPA 8270E LVI	
Benzo(a)pyrene	ND	0.00874	0.0175	ug/L	1	03/10/25 19:34	EPA 8270E LVI	
Benzo(b)fluoranthene	ND	0.00874	0.0175	ug/L	1	03/10/25 19:34	EPA 8270E LVI	
Benzo(k)fluoranthene	ND	0.00874	0.0175	ug/L	1	03/10/25 19:34	EPA 8270E LVI	
Benzo(g,h,i)perylene	ND	0.0175	0.0349	ug/L	1	03/10/25 19:34	EPA 8270E LVI	
Chrysene	ND	0.00874	0.0175	ug/L	1	03/10/25 19:34	EPA 8270E LVI	

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ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1123 - 05 29 25 1600**

ANALYTICAL SAMPLE RESULTS

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
T1-GW-70 (A5C1123-02)				**Matrix: Water**		**Batch: 25C0329**		**DCNT**
Dibenz(a,h)anthracene	ND	0.00874	0.0175	ug/L	1	03/10/25 19:34	EPA 8270E LVI	
Fluoranthene	**0.0367**	0.0175	0.0349	ug/L	1	03/10/25 19:34	EPA 8270E LVI	
Fluorene	**0.0214**	0.0175	0.0349	ug/L	1	03/10/25 19:34	EPA 8270E LVI	**J**
Indeno(1,2,3-cd)pyrene	ND	0.00874	0.0175	ug/L	1	03/10/25 19:34	EPA 8270E LVI	
1-Methylnaphthalene	ND	0.0349	0.0699	ug/L	1	03/10/25 19:34	EPA 8270E LVI	
2-Methylnaphthalene	ND	0.0349	0.0699	ug/L	1	03/10/25 19:34	EPA 8270E LVI	
Naphthalene	**0.122**	0.0349	0.0699	ug/L	1	03/10/25 19:34	EPA 8270E LVI	
Phenanthrene	**0.0660**	0.0349	0.0699	ug/L	1	03/10/25 19:34	EPA 8270E LVI	**J**
Pyrene	**0.0402**	0.0175	0.0349	ug/L	1	03/10/25 19:34	EPA 8270E LVI	
Dibenzofuran	ND	0.0175	0.0349	ug/L	1	03/10/25 19:34	EPA 8270E LVI	
Surrogate: Acenaphthylene-d8 (Surr)		*Recovery: 82 %*		*Limits: 78-134 %*	*1*	*03/10/25 19:34*	*EPA 8270E LVI*	
Benzo(a)pyrene-d12 (Surr)		*102 %*		*80-132 %*	*1*	*03/10/25 19:34*	*EPA 8270E LVI*	

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ANALYTICAL REPORT

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Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1123 - 05 29 25 1600**

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
T1-GW-58 (A5C1123-01)				**Matrix: Water**				
Batch: 25C0929								
Arsenic	**19.3**	---	1.00	ug/L	1	03/24/25 23:32	EPA 6020B	
T1-GW-58 (A5C1123-01RE1)				**Matrix: Water**				
Batch: 25C0929								
Iron	**117000**	---	500	ug/L	10	03/25/25 15:32	EPA 6020B	
Manganese	**5390**	---	10.0	ug/L	10	03/25/25 15:32	EPA 6020B	
T1-GW-70 (A5C1123-02)				**Matrix: Water**				
Batch: 25C1020								
Arsenic	**24.8**	---	1.00	ug/L	1	03/27/25 06:16	EPA 6020B	
T1-GW-70 (A5C1123-02RE1)				**Matrix: Water**				
Batch: 25C1020								
Iron	**136000**	---	500	ug/L	10	03/27/25 08:42	EPA 6020B	
Manganese	**3260**	---	10.0	ug/L	10	03/27/25 08:42	EPA 6020B	

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ANALYTICAL REPORT

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Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1123 - 05 29 25 1600**

ANALYTICAL SAMPLE RESULTS

Dissolved Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
T1-GW-58 (A5C1123-01)				**Matrix: Water**				
Batch: 25C0902								
Arsenic	**1.81**	---	1.00	ug/L	1	03/24/25 01:50	EPA 6020B (Diss)	
Iron	**3890**	---	50.0	ug/L	1	03/24/25 01:50	EPA 6020B (Diss)	
T1-GW-58 (A5C1123-01RE1)				**Matrix: Water**				
Batch: 25C0902								
Manganese	**2870**	---	10.0	ug/L	10	03/24/25 21:36	EPA 6020B (Diss)	
T1-GW-70 (A5C1123-02)				**Matrix: Water**				
Batch: 25C0902								
Arsenic	ND	---	1.00	ug/L	1	03/24/25 01:55	EPA 6020B (Diss)	
Iron	**252**	---	50.0	ug/L	1	03/24/25 01:55	EPA 6020B (Diss)	
Manganese	**249**	---	1.00	ug/L	1	03/24/25 01:55	EPA 6020B (Diss)	

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ANALYTICAL REPORT

AMENDED REPORT

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15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1123 - 05 29 25 1600**

ANALYTICAL SAMPLE RESULTS

Anions by Ion Chromatography

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
T1-GW-58 (A5C1123-01)				**Matrix: Water**				
Batch: 25C0313								
Nitrate-Nitrogen	**1.54**	---	0.250	mg/L	1	03/08/25 01:04	EPA 300.0	
Sulfate	**10.7**	---	1.00	mg/L	1	03/08/25 01:04	EPA 300.0	
T1-GW-70 (A5C1123-02)				**Matrix: Water**				
Batch: 25C0313								
Nitrate-Nitrogen	**4.97**	---	0.250	mg/L	1	03/08/25 02:08	EPA 300.0	
Sulfate	**16.1**	---	1.00	mg/L	1	03/08/25 02:08	EPA 300.0	

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15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1123 - 05 29 25 1600**

QUALITY CONTROL (QC) SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25C0849 - EPA 3510C (Neutral pH)/3640A (GPC)									**Water**			
Blank (25C0849-BLK1)			Prepared: 03/13/25 11:18		Analyzed: 03/24/25 14:30							**C-05**
EPA 8081B												
2,4'-DDD	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
2,4'-DDE	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
2,4'-DDT	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
4,4'-DDD	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
4,4'-DDE	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
4,4'-DDT	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 39 %*		*Limits: 25-140 %*				*Dilution: 1x*			
Decachlorobiphenyl (Surr)			*67 %*		*30-135 %*				*"*			
LCS (25C0849-BS1)			Prepared: 03/13/25 11:18		Analyzed: 03/24/25 14:47							**C-05**
EPA 8081B												
2,4'-DDD	0.530	0.0100	0.0200	ug/L	1	0.500	---	106	66-120%	---	---	
2,4'-DDE	0.480	0.0100	0.0200	ug/L	1	0.500	---	96	55-120%	---	---	
2,4'-DDT	0.551	0.0100	0.0200	ug/L	1	0.500	---	110	62-127%	---	---	
4,4'-DDD	0.512	0.0100	0.0200	ug/L	1	0.500	---	102	56-143%	---	---	
4,4'-DDE	0.475	0.0100	0.0200	ug/L	1	0.500	---	95	57-135%	---	---	
4,4'-DDT	0.509	0.0100	0.0200	ug/L	1	0.500	---	102	51-143%	---	---	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 47 %*		*Limits: 25-140 %*				*Dilution: 1x*			
Decachlorobiphenyl (Surr)			*63 %*		*30-135 %*				*"*			
LCS Dup (25C0849-BSD1)			Prepared: 03/13/25 11:18		Analyzed: 03/24/25 15:04							**C-05, Q-19**
EPA 8081B												
2,4'-DDD	0.548	0.0100	0.0200	ug/L	1	0.500	---	110	66-120%	3	30%	
2,4'-DDE	0.477	0.0100	0.0200	ug/L	1	0.500	---	95	55-120%	0.7	30%	
2,4'-DDT	0.590	0.0100	0.0200	ug/L	1	0.500	---	118	62-127%	7	30%	
4,4'-DDD	0.543	0.0100	0.0200	ug/L	1	0.500	---	109	56-143%	6	30%	
4,4'-DDE	0.483	0.0100	0.0200	ug/L	1	0.500	---	97	57-135%	2	30%	
4,4'-DDT	0.562	0.0100	0.0200	ug/L	1	0.500	---	112	51-143%	10	30%	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 50 %*		*Limits: 25-140 %*				*Dilution: 1x*			
Decachlorobiphenyl (Surr)			*64 %*		*30-135 %*				*"*			

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Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1123 - 05 29 25 1600**

QUALITY CONTROL (QC) SAMPLE RESULTS

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25C0329 - EPA 3511 (Bottle Extraction)							**Water**					
Blank (25C0329-BLK1)			Prepared: 03/10/25 06:54 Analyzed: 03/10/25 13:37									
EPA 8270E LVI												
Acenaphthene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Acenaphthylene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Anthracene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Benz(a)anthracene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Chrysene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Fluoranthene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Fluorene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
1-Methylnaphthalene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
2-Methylnaphthalene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
Phenanthrene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
Pyrene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Carbazole	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Dibenzofuran	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Surr: Acenaphthylene-d8 (Surr)			*Recovery: 83 %*		*Limits: 78-134 %*				*Dilution: 1x*			
Benzo(a)pyrene-d12 (Surr)			*98 %*		*80-132 %*				*"*			
LCS (25C0329-BS1)			Prepared: 03/10/25 06:54 Analyzed: 03/10/25 14:09									
EPA 8270E LVI												
Acenaphthene	1.60	0.0160	0.0320	ug/L	1	1.60	---	100	80-120%	---	---	
Acenaphthylene	1.45	0.0160	0.0320	ug/L	1	1.60	---	91	80-124%	---	---	
Anthracene	1.42	0.0160	0.0320	ug/L	1	1.60	---	89	80-123%	---	---	
Benz(a)anthracene	1.49	0.00800	0.0160	ug/L	1	1.60	---	93	80-122%	---	---	
Benzo(a)pyrene	1.59	0.00800	0.0160	ug/L	1	1.60	---	99	80-129%	---	---	
Benzo(b)fluoranthene	1.50	0.00800	0.0160	ug/L	1	1.60	---	94	80-124%	---	---	
Benzo(k)fluoranthene	1.53	0.00800	0.0160	ug/L	1	1.60	---	96	80-125%	---	---	
Benzo(g,h,i)perylene	1.40	0.0160	0.0320	ug/L	1	1.60	---	87	80-120%	---	---	

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Darrell Auvil, Client Services Manager

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

Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1123 - 05 29 25 1600**

QUALITY CONTROL (QC) SAMPLE RESULTS

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25C0329 - EPA 3511 (Bottle Extraction)							**Water**					
LCS (25C0329-BS1)			Prepared: 03/10/25 06:54 Analyzed: 03/10/25 14:09									
Chrysene	1.41	0.00800	0.0160	ug/L	1	1.60	---	88	80-120%	---	---	
Dibenz(a,h)anthracene	1.48	0.00800	0.0160	ug/L	1	1.60	---	93	80-120%	---	---	
Fluoranthene	1.45	0.0160	0.0320	ug/L	1	1.60	---	90	80-126%	---	---	
Fluorene	1.75	0.0160	0.0320	ug/L	1	1.60	---	110	77-127%	---	---	
Indeno(1,2,3-cd)pyrene	1.35	0.00800	0.0160	ug/L	1	1.60	---	84	80-121%	---	---	
1-Methylnaphthalene	1.74	0.0320	0.0640	ug/L	1	1.60	---	109	53-148%	---	---	
2-Methylnaphthalene	1.71	0.0320	0.0640	ug/L	1	1.60	---	107	48-150%	---	---	
Naphthalene	1.67	0.0320	0.0640	ug/L	1	1.60	---	104	78-120%	---	---	
Phenanthrene	1.43	0.0320	0.0640	ug/L	1	1.60	---	90	80-120%	---	---	
Pyrene	1.43	0.0160	0.0320	ug/L	1	1.60	---	90	80-125%	---	---	
Carbazole	1.63	0.0160	0.0320	ug/L	1	1.60	---	102	65-141%	---	---	
Dibenzofuran	1.54	0.0160	0.0320	ug/L	1	1.60	---	96	76-121%	---	---	
Surr: Acenaphthylene-d8 (Surr)			*Recovery: 85 %*		*Limits: 78-134 %*				*Dilution: 1x*			
Benzo(a)pyrene-d12 (Surr)			*100 %*		*80-132 %*				*"*			
LCS Dup (25C0329-BSD1)			Prepared: 03/10/25 06:54 Analyzed: 03/10/25 14:42									**Q-19**
EPA 8270E LVI												
Acenaphthene	1.70	0.0160	0.0320	ug/L	1	1.60	---	107	80-120%	7	30%	
Acenaphthylene	1.55	0.0160	0.0320	ug/L	1	1.60	---	97	80-124%	7	30%	
Anthracene	1.42	0.0160	0.0320	ug/L	1	1.60	---	89	80-123%	0.3	30%	
Benz(a)anthracene	1.51	0.00800	0.0160	ug/L	1	1.60	---	95	80-122%	2	30%	
Benzo(a)pyrene	1.59	0.00800	0.0160	ug/L	1	1.60	---	100	80-129%	0.3	30%	
Benzo(b)fluoranthene	1.52	0.00800	0.0160	ug/L	1	1.60	---	95	80-124%	1	30%	
Benzo(k)fluoranthene	1.54	0.00800	0.0160	ug/L	1	1.60	---	96	80-125%	0.4	30%	
Benzo(g,h,i)perylene	1.42	0.0160	0.0320	ug/L	1	1.60	---	88	80-120%	1	30%	
Chrysene	1.42	0.00800	0.0160	ug/L	1	1.60	---	89	80-120%	0.7	30%	
Dibenz(a,h)anthracene	1.51	0.00800	0.0160	ug/L	1	1.60	---	94	80-120%	1	30%	
Fluoranthene	1.46	0.0160	0.0320	ug/L	1	1.60	---	92	80-126%	1	30%	
Fluorene	1.90	0.0160	0.0320	ug/L	1	1.60	---	119	77-127%	8	30%	
Indeno(1,2,3-cd)pyrene	1.37	0.00800	0.0160	ug/L	1	1.60	---	86	80-121%	2	30%	
1-Methylnaphthalene	1.69	0.0320	0.0640	ug/L	1	1.60	---	106	53-148%	3	30%	
2-Methylnaphthalene	1.64	0.0320	0.0640	ug/L	1	1.60	---	102	48-150%	4	30%	
Naphthalene	1.75	0.0320	0.0640	ug/L	1	1.60	---	109	78-120%	5	30%	
Phenanthrene	1.47	0.0320	0.0640	ug/L	1	1.60	---	92	80-120%	2	30%	

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Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1123 - 05 29 25 1600**

QUALITY CONTROL (QC) SAMPLE RESULTS

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25C0329 - EPA 3511 (Bottle Extraction)							**Water**					
LCS Dup (25C0329-BSD1)			Prepared: 03/10/25 06:54		Analyzed: 03/10/25 14:42							**Q-19**
Pyrene	1.44	0.0160	0.0320	ug/L	1	1.60	---	90	80-125%	0.4	30%	
Carbazole	1.65	0.0160	0.0320	ug/L	1	1.60	---	103	65-141%	2	30%	
Dibenzofuran	1.63	0.0160	0.0320	ug/L	1	1.60	---	102	76-121%	6	30%	
Surr: Acenaphthylene-d8 (Surr)			*Recovery: 86 %*		*Limits: 78-134 %*				*Dilution: 1x*			
Benzo(a)pyrene-d12 (Surr)			*99 %*		*80-132 %*				*"*			

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QUALITY CONTROL (QC) SAMPLE RESULTS

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25C0446 - EPA 3511 (Bottle Extraction)								**Water**				
Blank (25C0446-BLK1)			Prepared: 03/12/25 08:09 Analyzed: 03/12/25 12:12									
EPA 8270E LVI												
Acenaphthene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Acenaphthylene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Anthracene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Benz(a)anthracene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Chrysene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Fluoranthene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Fluorene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
1-Methylnaphthalene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
2-Methylnaphthalene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
Phenanthrene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
Pyrene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Carbazole	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Dibenzofuran	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Surr: Acenaphthylene-d8 (Surr)			*Recovery: 92 %*		*Limits: 78-134 %*				*Dilution: 1x*			
Benzo(a)pyrene-d12 (Surr)			*96 %*		*80-132 %*				*"*			
LCS (25C0446-BS1)			Prepared: 03/12/25 08:09 Analyzed: 03/12/25 12:45									
EPA 8270E LVI												
Acenaphthene	1.52	0.0160	0.0320	ug/L	1	1.60	---	95	80-120%	---	---	
Acenaphthylene	1.53	0.0160	0.0320	ug/L	1	1.60	---	95	80-124%	---	---	
Anthracene	1.46	0.0160	0.0320	ug/L	1	1.60	---	91	80-123%	---	---	
Benz(a)anthracene	1.58	0.00800	0.0160	ug/L	1	1.60	---	99	80-122%	---	---	
Benzo(a)pyrene	1.65	0.00800	0.0160	ug/L	1	1.60	---	103	80-129%	---	---	
Benzo(b)fluoranthene	1.56	0.00800	0.0160	ug/L	1	1.60	---	98	80-124%	---	---	
Benzo(k)fluoranthene	1.60	0.00800	0.0160	ug/L	1	1.60	---	100	80-125%	---	---	
Benzo(g,h,i)perylene	1.48	0.0160	0.0320	ug/L	1	1.60	---	93	80-120%	---	---	

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Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1123 - 05 29 25 1600**

QUALITY CONTROL (QC) SAMPLE RESULTS

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25C0446 - EPA 3511 (Bottle Extraction)							**Water**					
LCS (25C0446-BS1)			Prepared: 03/12/25 08:09 Analyzed: 03/12/25 12:45									
Chrysene	1.47	0.00800	0.0160	ug/L	1	1.60	---	92	80-120%	---	---	
Dibenz(a,h)anthracene	1.56	0.00800	0.0160	ug/L	1	1.60	---	98	80-120%	---	---	
Fluoranthene	1.51	0.0160	0.0320	ug/L	1	1.60	---	94	80-126%	---	---	
Fluorene	1.71	0.0160	0.0320	ug/L	1	1.60	---	107	77-127%	---	---	
Indeno(1,2,3-cd)pyrene	1.36	0.00800	0.0160	ug/L	1	1.60	---	85	80-121%	---	---	
1-Methylnaphthalene	1.48	0.0320	0.0640	ug/L	1	1.60	---	92	53-148%	---	---	
2-Methylnaphthalene	1.43	0.0320	0.0640	ug/L	1	1.60	---	90	48-150%	---	---	
Naphthalene	1.55	0.0320	0.0640	ug/L	1	1.60	---	97	78-120%	---	---	
Phenanthrene	1.47	0.0320	0.0640	ug/L	1	1.60	---	92	80-120%	---	---	
Pyrene	1.50	0.0160	0.0320	ug/L	1	1.60	---	94	80-125%	---	---	
Carbazole	1.62	0.0160	0.0320	ug/L	1	1.60	---	101	65-141%	---	---	
Dibenzofuran	1.61	0.0160	0.0320	ug/L	1	1.60	---	101	76-121%	---	---	
Surr: Acenaphthylene-d8 (Surr)			*Recovery: 87 %*		*Limits: 78-134 %*			*Dilution: 1x*				
Benzo(a)pyrene-d12 (Surr)			*99 %*		*80-132 %*			*"*				
Matrix Spike (25C0446-MS1)			Prepared: 03/12/25 08:10 Analyzed: 03/12/25 13:50									
QC Source Sample: Non-SDG (A5C1214-06)												
EPA 8270E LVI												
Acenaphthene	87.6	0.359	0.719	ug/L	20	1.80	89.1	**-83**	**80-120%**	---	---	Q-03
Acenaphthylene	8.96	0.359	0.719	ug/L	20	1.80	8.52	**24**	**80-124%**	---	---	Q-03
Anthracene	6.25	0.359	0.719	ug/L	20	1.80	4.44	101	80-123%	---	---	
Benz(a)anthracene	1.96	0.359	0.359	ug/L	20	1.80	ND	109	80-122%	---	---	
Benzo(a)pyrene	1.84	0.180	0.359	ug/L	20	1.80	ND	102	80-129%	---	---	
Benzo(b)fluoranthene	1.69	0.180	0.359	ug/L	20	1.80	ND	94	80-124%	---	---	
Benzo(k)fluoranthene	1.78	0.180	0.359	ug/L	20	1.80	ND	99	80-125%	---	---	
Benzo(g,h,i)perylene	1.61	0.359	0.719	ug/L	20	1.80	ND	90	80-120%	---	---	
Chrysene	1.70	0.180	0.359	ug/L	20	1.80	ND	95	80-120%	---	---	
Dibenz(a,h)anthracene	1.62	0.180	0.359	ug/L	20	1.80	ND	90	80-120%	---	---	
Fluoranthene	3.48	0.359	0.719	ug/L	20	1.80	2.09	**77**	**80-126%**	---	---	Q-03
Fluorene	22.7	0.359	0.719	ug/L	20	1.80	21.4	**74**	**77-127%**	---	---	Q-03
Indeno(1,2,3-cd)pyrene	1.63	0.180	0.359	ug/L	20	1.80	ND	91	80-121%	---	---	
1-Methylnaphthalene	78.7	0.719	1.44	ug/L	20	1.80	79.7	**-56**	**53-148%**	---	---	Q-03
2-Methylnaphthalene	87.8	0.719	1.44	ug/L	20	1.80	90.0	**-123**	**48-150%**	---	---	Q-03
Naphthalene	925	0.719	1.44	ug/L	20	1.80	971	**-2540**	**78-120%**	---	---	E, Q-03

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Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1123 - 05 29 25 1600**

QUALITY CONTROL (QC) SAMPLE RESULTS

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25C0446 - EPA 3511 (Bottle Extraction)								**Water**				
Matrix Spike (25C0446-MS1)			Prepared: 03/12/25 08:10 Analyzed: 03/12/25 13:50									
QC Source Sample: Non-SDG (A5C1214-06)												
Phenanthrene	22.1	0.719	1.44	ug/L	20	1.80	21.1	**56**	**80-120%**	---	---	Q-03
Pyrene	3.26	0.359	0.719	ug/L	20	1.80	1.79	82	80-125%	---	---	
Carbazole	35.5	0.359	0.719	ug/L	20	1.80	33.8	92	65-141%	---	---	
Dibenzofuran	9.16	0.359	0.719	ug/L	20	1.80	7.75	79	76-121%	---	---	
Surr: Acenaphthylene-d8 (Surr)			*Recovery: % 100 %*	*Limits: 78-134 %*			*Dilution: 20x*					*S-01*
Benzo(a)pyrene-d12 (Surr)			*80-132 %*				*"*					*S-05*
Matrix Spike Dup (25C0446-MSD1)			Prepared: 03/12/25 08:10 Analyzed: 03/12/25 14:23									
QC Source Sample: Non-SDG (A5C1214-06)												
Acenaphthene	88.8	0.351	0.703	ug/L	20	1.76	89.1	**-20**	**80-120%**	1	30%	Q-03
Acenaphthylene	8.69	0.351	0.703	ug/L	20	1.76	8.52	**10**	**80-124%**	3	30%	Q-03
Anthracene	6.24	0.351	0.703	ug/L	20	1.76	4.44	103	80-123%	0.1	30%	
Benz(a)anthracene	1.94	0.351	0.351	ug/L	20	1.76	ND	110	80-122%	0.9	30%	
Benzo(a)pyrene	1.67	0.176	0.351	ug/L	20	1.76	ND	95	80-129%	10	30%	
Benzo(b)fluoranthene	1.70	0.176	0.351	ug/L	20	1.76	ND	96	80-124%	0.4	30%	
Benzo(k)fluoranthene	1.67	0.176	0.351	ug/L	20	1.76	ND	95	80-125%	6	30%	
Benzo(g,h,i)perylene	1.49	0.351	0.703	ug/L	20	1.76	ND	85	80-120%	7	30%	
Chrysene	1.62	0.176	0.351	ug/L	20	1.76	ND	92	80-120%	4	30%	
Dibenz(a,h)anthracene	1.61	0.176	0.351	ug/L	20	1.76	ND	92	80-120%	0.6	30%	
Fluoranthene	3.61	0.351	0.703	ug/L	20	1.76	2.09	87	80-126%	4	30%	
Fluorene	23.2	0.351	0.703	ug/L	20	1.76	21.4	101	77-127%	2	30%	
Indeno(1,2,3-cd)pyrene	1.55	0.176	0.351	ug/L	20	1.76	ND	88	80-121%	6	30%	
1-Methylnaphthalene	81.9	0.703	1.41	ug/L	20	1.76	79.7	126	53-148%	4	30%	
2-Methylnaphthalene	91.6	0.703	1.41	ug/L	20	1.76	90.0	90	48-150%	4	30%	
Naphthalene	954	0.703	1.41	ug/L	20	1.76	971	**-964**	**78-120%**	3	30%	E, Q-03
Phenanthrene	22.9	0.703	1.41	ug/L	20	1.76	21.1	102	80-120%	4	30%	
Pyrene	3.28	0.351	0.703	ug/L	20	1.76	1.79	85	80-125%	0.7	30%	
Carbazole	36.7	0.351	0.703	ug/L	20	1.76	33.8	**166**	**65-141%**	3	30%	Q-03
Dibenzofuran	9.18	0.351	0.703	ug/L	20	1.76	7.75	81	76-121%	0.2	30%	
Surr: Acenaphthylene-d8 (Surr)			*Recovery: % 95 %*	*Limits: 78-134 %*			*Dilution: 20x*					*S-01*
Benzo(a)pyrene-d12 (Surr)			*80-132 %*				*"*					*S-05*

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15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1123 - 05 29 25 1600**

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 25C0929 - EPA 3015A												**Water**
Blank (25C0929-BLK1)			Prepared: 03/24/25 09:01		Analyzed: 03/24/25 21:47							
EPA 6020B												
Arsenic	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Iron	ND	---	50.0	ug/L	1	---	---	---	---	---	---	
Manganese	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
LCS (25C0929-BS1)			Prepared: 03/24/25 09:01		Analyzed: 03/24/25 21:52							
EPA 6020B												
Arsenic	57.2	---	1.00	ug/L	1	55.6	---	103	80-120%	---	---	
Iron	5670	---	50.0	ug/L	1	5560	---	102	80-120%	---	---	
Manganese	57.1	---	1.00	ug/L	1	55.6	---	103	80-120%	---	---	
Duplicate (25C0929-DUP1)			Prepared: 03/24/25 09:01		Analyzed: 03/24/25 22:08							
QC Source Sample: Non-SDG (A5C0942-01)												
Arsenic	**38.2**	---	1.00	ug/L	1	---	22.3	---	---	**53**	**20%**	Q-04
Duplicate (25C0929-DUP2)			Prepared: 03/24/25 09:01		Analyzed: 03/25/25 15:21							
QC Source Sample: Non-SDG (A5C0942-01RE1)												
Iron	**202000**	---	500	ug/L	10	---	149000	---	---	**30**	**20%**	Q-04, Q-16
Manganese	**5090**	---	10.0	ug/L	10	---	5120	---	---	0.4	20%	Q-16
Matrix Spike (25C0929-MS1)			Prepared: 03/24/25 09:01		Analyzed: 03/24/25 22:14							
QC Source Sample: Non-SDG (A5C0942-01)												
EPA 6020B												
Arsenic	81.4	---	1.00	ug/L	1	55.6	22.3	106	75-125%	---	---	
Iron	169000	---	50.0	ug/L	1	5560	142000	**490**	**75-125%**	---	---	E, Q-65
Manganese	4950	---	1.00	ug/L	1	55.6	4800	**268**	**75-125%**	---	---	E, Q-65

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6700 S.W. Sandburg Street
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503-718-2323
ORELAP ID: **OR100062**

Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1123 - 05 29 25 1600**

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 25C1020 - EPA 3015A								**Water**				
Blank (25C1020-BLK1)			Prepared: 03/26/25 10:12		Analyzed: 03/27/25 06:05							
EPA 6020B												
Arsenic	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Iron	ND	---	50.0	ug/L	1	---	---	---	---	---	---	
Manganese	ND	---	1.00	ug/L	1	---	---	---	---	---	---	B-02
LCS (25C1020-BS1)			Prepared: 03/26/25 10:12		Analyzed: 03/27/25 06:10							
EPA 6020B												
Arsenic	53.4	---	1.00	ug/L	1	55.6	---	96	80-120%	---	---	
Iron	5480	---	50.0	ug/L	1	5560	---	99	80-120%	---	---	
Manganese	53.2	---	1.00	ug/L	1	55.6	---	96	80-120%	---	---	
Duplicate (25C1020-DUP1)			Prepared: 03/26/25 10:12		Analyzed: 03/27/25 06:27							
QC Source Sample: Non-SDG (A5C1128-16)												
Arsenic	**3.39**	---	1.00	ug/L	1	---	3.22	---	---	5	20%	
Iron	**9920**	---	50.0	ug/L	1	---	9430	---	---	5	20%	
Manganese	**1130**	---	1.00	ug/L	1	---	1100	---	---	2	20%	
Matrix Spike (25C1020-MS1)			Prepared: 03/26/25 10:12		Analyzed: 03/27/25 06:32							
QC Source Sample: Non-SDG (A5C1128-16)												
EPA 6020B												
Arsenic	55.0	---	1.00	ug/L	1	55.6	3.22	93	75-125%	---	---	
Iron	15900	---	50.0	ug/L	1	5560	9430	117	75-125%	---	---	
Manganese	1140	---	1.00	ug/L	1	55.6	1100	**71**	**75-125%**	---	---	Q-65

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15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1123 - 05 29 25 1600**

QUALITY CONTROL (QC) SAMPLE RESULTS

Dissolved 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 25C0902 - Matrix Matched Direct Inject								**Water**				
Blank (25C0902-BLK1)			Prepared: 03/22/25 13:23		Analyzed: 03/24/25 00:23							
EPA 6020B (Diss)												
Arsenic	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Iron	ND	---	50.0	ug/L	1	---	---	---	---	---	---	
Manganese	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
LCS (25C0902-BS1)			Prepared: 03/22/25 13:23		Analyzed: 03/24/25 00:28							
EPA 6020B (Diss)												
Arsenic	55.3	---	1.00	ug/L	1	55.6	---	100	80-120%	---	---	
Iron	5740	---	50.0	ug/L	1	5560	---	103	80-120%	---	---	
Manganese	56.2	---	1.00	ug/L	1	55.6	---	101	80-120%	---	---	
Duplicate (25C0902-DUP1)			Prepared: 03/22/25 13:23		Analyzed: 03/24/25 00:39							
QC Source Sample: Non-SDG (A5C1035-01)												
Arsenic	**12.3**	---	1.00	ug/L	1	---	12.1	---	---	1	20%	
Iron	**2240**	---	50.0	ug/L	1	---	2190	---	---	2	20%	
Manganese	**2550**	---	1.00	ug/L	1	---	2500	---	---	2	20%	
Matrix Spike (25C0902-MS1)			Prepared: 03/22/25 13:23		Analyzed: 03/24/25 01:01							
QC Source Sample: Non-SDG (A5C1099-02)												
EPA 6020B (Diss)												
Arsenic	94.6	---	1.00	ug/L	1	55.6	37.4	103	75-125%	---	---	
Iron	35300	---	50.0	ug/L	1	5560	30000	96	75-125%	---	---	
Manganese	10500	---	1.00	ug/L	1	55.6	10600	**-87**	**75-125%**	---	---	E, Q-65
Matrix Spike (25C0902-MS2)			Prepared: 03/22/25 13:23		Analyzed: 03/24/25 19:42							
QC Source Sample: Non-SDG (A5C1099-02RE1)												
EPA 6020B (Diss)												
Manganese	10900	---	10.0	ug/L	10	55.6	10900	**-111**	**75-125%**	---	---	Q-16

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ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1123 - 05 29 25 1600**

QUALITY CONTROL (QC) SAMPLE RESULTS

Anions by Ion Chromatography

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25C0313 - Method Prep: Aq									Water			
Blank (25C0313-BLK1)			Prepared: 03/07/25 15:31		Analyzed: 03/08/25 00:21							
EPA 300.0												
Nitrate-Nitrogen	ND	---	0.250	mg/L	1	---	---	---	---	---	---	
Sulfate	ND	---	1.00	mg/L	1	---	---	---	---	---	---	
LCS (25C0313-BS1)			Prepared: 03/07/25 15:31		Analyzed: 03/08/25 00:42							
EPA 300.0												
Nitrate-Nitrogen	1.92	---	0.250	mg/L	1	2.00	---	96	90-110%	---	---	
Sulfate	7.53	---	1.00	mg/L	1	8.00	---	94	90-110%	---	---	
Duplicate (25C0313-DUP1)			Prepared: 03/07/25 15:31		Analyzed: 03/08/25 01:25							
QC Source Sample: T1-GW-58 (A5C1123-01)												
EPA 300.0												
Nitrate-Nitrogen	**1.54**	---	0.250	mg/L	1	---	1.54	---	---	0.2	10%	
Sulfate	**10.7**	---	1.00	mg/L	1	---	10.7	---	---	0.03	10%	
Matrix Spike (25C0313-MS1)			Prepared: 03/07/25 15:31		Analyzed: 03/08/25 01:47							
QC Source Sample: T1-GW-58 (A5C1123-01)												
EPA 300.0												
Nitrate-Nitrogen	3.93	---	0.312	mg/L	1	2.50	1.54	96	87-112%	---	---	
Sulfate	20.4	---	1.25	mg/L	1	10.0	10.7	97	88-115%	---	---	

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SAMPLE PREPARATION INFORMATION

Organochlorine Pesticides by EPA 8081B

Prep: EPA 3510C (Neutral pH)/3640A (GPC)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25C0849							
A5C1123-01RE1	Water	EPA 8081B	03/07/25 09:58	03/13/25 11:18	1010mL/10mL	1000mL/5mL	1.98
A5C1123-02RE1	Water	EPA 8081B	03/07/25 13:28	03/13/25 11:18	1000mL/10mL	1000mL/5mL	2.00

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Prep: EPA 3511 (Bottle Extraction)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25C0329							
A5C1123-02	Water	EPA 8270E LVI	03/07/25 13:28	03/10/25 06:56	114.48mL/5mL	125mL/5mL	1.09
Batch: 25C0446							
A5C1123-01RE1	Water	EPA 8270E LVI	03/07/25 09:58	03/12/25 08:09	110.53mL/5mL	125mL/5mL	1.13
A5C1123-01RE2	Water	EPA 8270E LVI	03/07/25 09:58	03/12/25 08:09	110.53mL/5mL	125mL/5mL	1.13

Total Metals by EPA 6020B (ICPMS)

Prep: EPA 3015A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25C0929							
A5C1123-01	Water	EPA 6020B	03/07/25 09:58	03/24/25 09:01	45mL/50mL	45mL/50mL	1.00
A5C1123-01RE1	Water	EPA 6020B	03/07/25 09:58	03/24/25 09:01	45mL/50mL	45mL/50mL	1.00
Batch: 25C1020							
A5C1123-02	Water	EPA 6020B	03/07/25 13:28	03/26/25 10:12	45mL/50mL	45mL/50mL	1.00
A5C1123-02RE1	Water	EPA 6020B	03/07/25 13:28	03/26/25 10:12	45mL/50mL	45mL/50mL	1.00

Dissolved Metals by EPA 6020B (ICPMS)

Prep: Matrix Matched Direct Inject

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25C0902							
A5C1123-01	Water	EPA 6020B (Diss)	03/07/25 09:58	03/22/25 13:23	45mL/50mL	45mL/50mL	1.00
A5C1123-01RE1	Water	EPA 6020B (Diss)	03/07/25 09:58	03/22/25 13:23	45mL/50mL	45mL/50mL	1.00
A5C1123-02	Water	EPA 6020B (Diss)	03/07/25 13:28	03/22/25 13:23	45mL/50mL	45mL/50mL	1.00

Anions by Ion Chromatography

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ANALYTICAL REPORT

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Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1123 - 05 29 25 1600**

SAMPLE PREPARATION INFORMATION

Anions by Ion Chromatography

Prep: Method Prep: Aq

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25C0313							
A5C1123-01	Water	EPA 300.0	03/07/25 09:58	03/07/25 15:31	5mL/5mL	5mL/5mL	1.00
A5C1123-02	Water	EPA 300.0	03/07/25 13:28	03/07/25 15:31	5mL/5mL	5mL/5mL	1.00

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QUALIFIER DEFINITIONS

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

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B-02	Analyte detected in an associated blank at a level between one-half the MRL and the MRL. (See Notes and Conventions below.)
C-05	Extract has undergone a GPC (Gel-Permeation Chromatography) cleanup per EPA 3640A. Reporting levels may be raised due to dilution necessary for cleanup. Sample Final Volume includes the GPC dilution factor, see the Prep page for details.
DCNT	Sample decanted due to the presence of sediment in water samples, or water in sediment or soil samples. (Note: Decanted aqueous sample bottles are not solvent rinsed.)
E	Estimated Value. The result is above the calibration range of the instrument.
J	Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified DL.
Q-03	Spike recovery and/or RPD is outside control limits due to the high concentration of analyte present in the sample.
Q-04	Spike recovery and/or RPD is outside control limits due to a non-homogeneous sample matrix.
Q-16	Reanalysis of an original Batch QC sample.
Q-19	Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis.
Q-65	Spike recovery is estimated due to the high analyte concentration of the source sample.
S-01	Surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference.
S-05	Surrogate recovery is estimated due to sample dilution required for high analyte concentration and/or matrix interference.

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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)

Validated 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 and Detection Limits: Default Limits

Default Reporting and Detection Limits are based on 100% dry weight with the minimum dilution for the analysis. Reporting and Detection Limits are raised due to moisture content, additional dilutions required for analysis, matrix interferences and in other cases, as necessary.

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 one half of the Reporting Limit (RL).
Blank results for gravimetric analyses are evaluated to the Reporting Level, not to half of the Reporting Level.
-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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Decanted Samples:

Soils/Sediments:
Unless TCLP analysis is required or there is notification otherwise for a specific project, all Soil and Sediments containing excess water are decanted prior to analysis in order to provide the most representative sample for analysis.

Water Samples:
Water samples containing solids and sediment may need to be decanted in order to eliminate these particulates from the water extractions. In the case of organics extractions, a solvent rinse of the container will not be performed.

Volatiles Soils (5035s)
Samples that are field preserved by 5035 for volatiles are dry weight corrected using the same dry weight corretion as for normal analyses. In the case of decanted samples, the dry weight may be performed on a decanted sample, while the aliquot for 5035 may not have been treated the same way. If this is a concern, please submit separate containers for dry weight analysis for volatiles can be provided.

All samples decanted in the laboratory are noted in this report with the DCNT qualifier indicating the sample was decanted.

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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

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

Secondary Accreditations

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

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.
Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

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

Apex Laboratories

Darrell Auvil, Client Services Manager

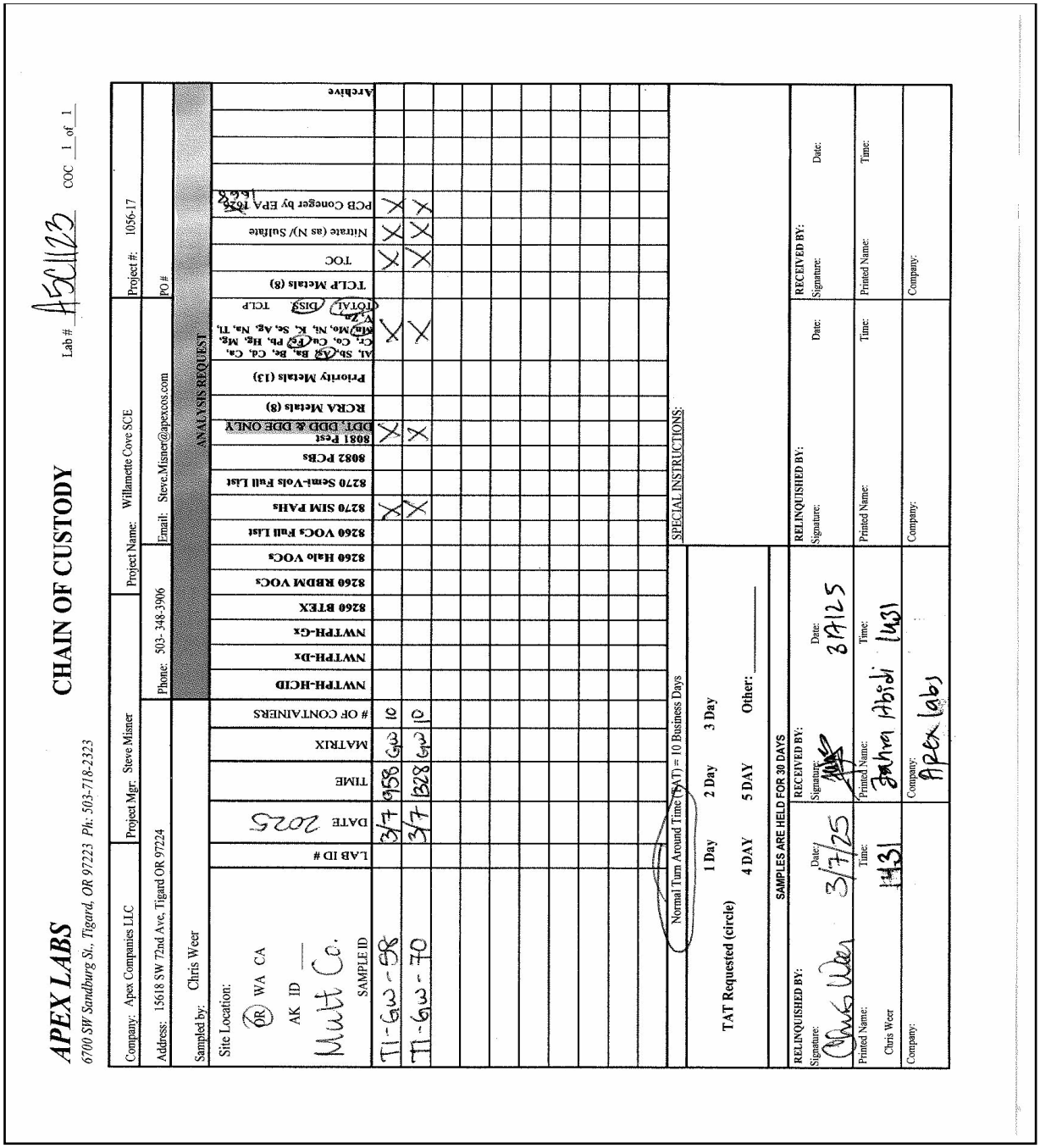
The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

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

ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1123 - 05 29 25 1600**



APEX LABS — **CHAIN OF CUSTODY** — Lab # A5C1123 — COC 1 of 1

6700 SW Sandburg St., Tigard, OR 97223 Ph: 503-718-2323

Company: Apex Companies LLC | Project Mgr: Steve Misner | Project Name: Willamette Cove SCE | Project #: 1056-17

Address: 15618 SW 72nd Ave, Tigard OR 97224 | Phone: 503-348-3906 | Email: Steve.Misner@apexcos.com | PO #

Sampled by: Chris Weer

Site Location: (OR) WA CA AK ID — Multi Co.

ANALYSIS REQUEST

SAMPLE ID	LAB ID #	DATE 2025	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID	NWTPH-Dx	NWTPH-Gx	8260 BTEX	8260 RBDM VOCs	8260 Halo VOCs	8260 VOCs Full List	8270 SIM PAHs	8270 Semi-Vols Full List	8082 PCBs	8081 Pest DDT, DDD & DDE ONLY	RCRA Metals (8)	Priority Metals (13)	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Hg, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Tl, V, Zn — TOTAL / DISS — TCLP	TCLP Metals (8)	TOC	Nitrate (as N)/ Sulfate	PCB Congeer by EPA 1628	Archive
TI-GW-58		3/7	0958	GW	10								X			X			X	X	X	X	
TI-GW-70		3/7	1328	GW	10								X			X			X	X	X	X	

Normal Turn Around Time (TAT) = 10 Business Days

TAT Requested (circle): 1 Day 2 Day 3 Day 4 DAY 5 DAY Other: ____

SPECIAL INSTRUCTIONS:

SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY:	Date:	RECEIVED BY:	Date:	RELINQUISHED BY:	Date:	RECEIVED BY:	Date:
Signature:	3/7/25	Signature:	3/9/25	Signature:		Signature:	
Printed Name: Chris Weer	Time: 1431	Printed Name: Joshua Abidi	Time: 1431	Printed Name:	Time:	Printed Name:	Time:
Company:		Company: Apex Labs		Company:		Company:	

Apex Laboratories

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Darrell Auvil, Client Services Manager

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

ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1123 - 05 29 25 1600**

APEX LABS COOLER RECEIPT FORM

Client: Apex Companies, LLC Element WO#: A5 C1123

Project/Project #: Willamette Cove SCE #1056-17

Delivery Info:

Date/time received: 3/7/25 @ 1431 By: JA

Delivered by: Apex__Client ✓ESS__FedEx__UPS__Radio__Morgan__SDS__Evergreen__Other__

From USDA Regulated Origin? Yes ____ No ✓

Cooler Inspection Date/time inspected: 3/7/25 @ 1431 By: JA

Chain of Custody included? Yes ✓ No ____

Signed/dated by client? Yes ✓ No ____

Contains USDA Reg. Soils? Yes ____ No ✓ Unsure (email RegSoils) ____

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	5.4						
Custody seals? (Y/N)	N						
Received on ice? (Y/N)	Y						
Temp. blanks? (Y/N)	Y						
Ice type: (Gel/Real/Other)	Real						
Condition (In/Out):	In						

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: 3/7/25 @ 1450 By: JS

All samples intact? Yes X No ___ Comments: ____

JS 3/7

Bottle labels/COCs agree? Yes X No X Comments: Ton containers read 1323 for TI-GW-10.

COC/container discrepancies form initiated? Yes ___ No X

Containers/volumes received appropriate for analysis? Yes X No ___ Comments: ____

Do VOA vials have visible headspace? Yes ___ No ___ NA X

Comments ____

Water samples: pH checked: Yes X No ___ NA ___ pH appropriate? Yes ✓ No ___ NA ___ pH ID: A23172

Comments: ____

Labeled by: JS Witness: JA Cooler Inspected by: JS

Form Y-003 R-02

Apex Laboratories

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Darrell Auvil, Client Services Manager

CERES Analytical Laboratory, Inc.
4919 Windplay Dr. Suite 1, El Dorado Hills, CA 95762

March 21, 2025 Ceres ID: 19262

Apex Laboratories
6700 S.W. Sandburg Street
Tigard, OR 97223

The following report contains the results for the two aqueous samples received on March 11, 2025. These samples were analyzed for congener PCBs by EPA method 1668C. Standard 3-week turn-around time was provided for this work.

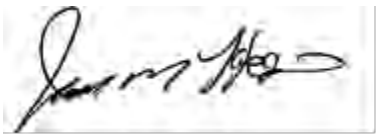
This work was authorized under Apex Laboratories' Project # A5C1123.

Continuing Calibration Verification (CCV) Requirements
All associated calibration verification standard(s) (CCV) met the acceptance criteria.

The report consists of a Cover Letter, Sample Inventory (Section I), Data Summary (Section II), Sample Tracking (Section VI), and Qualifiers/Abbreviations (Section VII). Raw Data (Section III), Continuing Calibration (Section IV), and Initial Calibration (Section V) are available in a full report (.pdf format) upon request.

If you have any questions regarding this report, please feel free to contact me at (916)932-5011.

Sincerely,



James M. Hedin
Director of Operations/CEO
jhedin@ceres-lab.com

Section I: Sample Inventory

Ceres Sample ID:	Sample ID	Date Received	Collection Date	&Time
19262-001	T1-GW-58	3/11/2025	3/7/2025	9:58
19262-002	T1-GW-70	3/11/2025	3/7/2025	13:28

Section II: Data Summary

Sample ID: Method Blank

	Ceres ID:	0-3442-MB		**Date Received:**	NA
Project ID:	A5C1123	**QC Batch #:**	3442	**Date Extracted:**	14-Mar-25
Matrix:	Aqueous	**Sample Size:**	1.000 L	**Analyzed Date:**	15-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2-MoCB	1	ND		20.0	2.08
3-MoCB	2	ND		20.0	3.49
4-MoCB	3	ND		20.0	3.49
2,2'-/2,6-DiCB	4/10	ND		20.0	8.07
2,4-/2,5-DiCB	7/9	ND		20.0	8.07
2,3'-DiCB	6	ND		20.0	8.07
2,3-/2,4'-DiCB	5/8	ND		20.0	8.07
3,5-DiCB	14	ND		20.0	8.31
3,3'-DiCB	11	ND		20.0	8.31
3,4-/3,4'-DiCB	12/13	ND		20.0	8.31
4,4'-DiCB	15	ND		20.0	8.31
2,2',6-TrCB	19	ND		20.0	4.97
2,4,6-TrCB	30	ND		20.0	4.97
2,2',5-TrCB	18	ND		20.0	4.97
2,2',4-TrCB	17	ND		20.0	4.97
2,3,6-/2,3',6-TrCB	24/27	ND		20.0	4.97
2,2',3-/2,4',6-TrCB	16/32	ND		20.0	4.97
2',3,5-TrCB	34	ND		20.0	5.86
2,3,5-TrCB	23	ND		20.0	5.86
2,4,5-TrCB	29	ND		20.0	5.86
2,3',5-TrCB	26	ND		20.0	5.86
2,3',4-TrCB	25	ND		20.0	5.86
2,4',5-TrCB	31	ND		20.0	5.86
2,4,4'-TrCB	28	ND		20.0	5.86
2,3,3'-/2,3,4-/2',3,4-TrCB	20/21/33	ND		20.0	5.86
2,3,4'-TrCB	22	ND		20.0	5.86
3,3',5-TrCB	36	ND		20.0	5.86
3,4',5-TrCB	39	ND		20.0	5.86
3,4,5-TrCB	38	ND		20.0	5.86
3,3',4-TrCB	35	ND		20.0	5.86
3,4,4'-TrCB	37	ND		20.0	5.86
2,2',6,6'-TeCB	54	ND		20.0	3.75
2,2',4,6-TeCB	50	ND		20.0	3.75
2,2',5,6'-TeCB	53	ND		20.0	3.75
2,2',4,6'-TeCB	51	ND		20.0	3.75
2,2',3,6-TeCB	45	ND		20.0	3.75
2,2',3,6'-TeCB	46	ND		20.0	3.75
2,2',5,5'-/2,3',4,6-TeCB	52/69	ND		20.0	3.75
2,3',5',6-TeCB	73	ND		20.0	3.75
2,2',3-5-/2,2',4,5'-TeCB	43/49	ND		20.0	3.75
2,2',4,4'-TeCB	47	ND		20.0	3.75
2,2',4,5-/2,4,4',6-TeCB	48/75	ND		20.0	3.75
2,3,5,6-TeCB	65	ND		20.0	3.75
2,3,4,6-TeCB	62	ND		20.0	3.75

Sample ID: Method Blank

		Ceres ID:	0-3442-MB	**Date Received:**	NA
Project:	A5C1123	**QC Batch #:**	3442	**Date Extracted:**	14-Mar-25
Matrix:	Aqueous	**Sample Size:**	1.000 L	**Analyzed Date:**	15-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2,2',3,5'-TeCB	44	ND		20.0	3.75
2,2',3,4'-/2,3,3',6-TeCB	42/59	ND		20.0	3.75
2,2',3,4-/2,3,4',6-/2,3',4',6-/2,3',5,5'-TeCB	41/64/71/72	ND		20.0	3.75
2,3',4,5'-TeCB	68	ND		20.0	3.75
2,2',3,3'-TeCB	40	ND		20.0	3.75
2,3,3',5-TeCB	57	ND		20.0	3.75
2,3',4,5-TeCB	67	ND		20.0	3.75
2,3,3',5'-TeCB	58	ND		20.0	3.75
2,3,4',5-TeCB	63	ND		20.0	3.75
2,4,4',5-TeCB	74	ND		20.0	3.75
2,3,4,5-/2,3',4',5-TeCB	61/70	ND		20.0	3.75
2,3',4,4'-/2',3,4,5-TeCB	66/76	ND		20.0	3.75
3,3',5,5'-TeCB	80	ND		20.0	3.75
2,3,3',4-TeCB	55	ND		20.0	3.75
2,3,3',4'-/2,3,4,4'-TeCB	56/60	ND		20.0	3.59
3,3',4,5'-TeCB	79	ND		20.0	3.59
3,3',4,5-TeCB	78	ND		20.0	3.59
3,4,4',5-TeCB	81	ND		20.0	3.59
3,3',4,4'-TeCB	77	ND		20.0	5.22
2,2',4,6,6'-PeCB	104	ND		20.0	4.75
2,2',3,6,6'-PeCB	96	ND		20.0	4.75
2,2',4,5'6-PeCB	103	ND		20.0	4.75
2,2',4,4',6-PeCB	100	ND		20.0	4.75
2,2',3,5,6'-PeCB	94	ND		20.0	4.75
2,2',3,5,6-/2,2',3,5',6-/2,2',3',4,6-/2,2',4,5,6'-PeCB	93/95/98/102	ND		20.0	4.75
2,2',3,4,6-PeCB	88/91	ND		20.0	4.75
2,3',4,5',6-PeCB	121	ND		20.0	4.75
2,2',3,3',6-/2,2',3,5,5'-PeCB	84/92	ND		20.0	3.46
2,2',3,4,6'-PeCB	89	ND		20.0	3.46
2,2',3,4',5-/2,2',4,5,5'-PeCB	90/101	ND		20.0	3.46
2,3,3',5',6-PeCB	113	ND		20.0	3.46
2,2',4,4',5-PeCB	99	ND		20.0	3.46
2,2',3,3',5-PeCB	83	ND		20.0	3.46
2,3,3',5,6-/2,3',4,4',6-PeCB	112/119	ND		20.0	3.46
2,3,3',4,6-PeCB	109	ND		20.0	3.46
2,2',3',4,5-PeCB	97	ND		20.0	3.46
2,2',3,4,5-PeCB	86	ND		20.0	3.46
2,2',3,4,5'-/2,3,4',5,6-/2',3,4,5,6'-PeCB	87/117/125	ND		20.0	3.46
2,3,3',5,5'-/2,3,4,4',6-PeCB	111/115	ND		20.0	3.46
2,2',3,4,4'-/2,3,4,5,6-PeCB	85/116	ND		20.0	3.46
2,3',4,5,5'-PeCB	120	ND		20.0	3.46
2-3,3',4',6-PeCB	110	ND		20.0	3.46

Sample ID: Method Blank

		Ceres ID:	0-3442-MB		**Date Received:**	NA
Project:	A5C1123	**QC Batch #:**	3442		**Date Extracted:**	14-Mar-25
Matrix:	Aqueous	**Sample Size:**	1.000	L	**Analyzed Date:**	15-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2,2',3,3',4-PeCB	82	ND		20.0	3.46
2',3,4,5,5'-PeCB	124	ND		20.0	3.46
2,3,3',4',5-/2,3,3',4,5'-PeCB	107/108	ND		20.0	3.46
2,3',4,4',5'-PeCB	123	ND		20.0	3.46
2,3,3',4,5-/2,3',4,4',5-PeCB	106/118	ND		20.0	5.58
2,3,4,4',5-PeCB	114	ND		20.0	3.25
2',3,3',4,5-PeCB	122	ND		20.0	3.25
2,3,3',4,4'-PeCB	105	ND		20.0	4.87
3,3',4,5,5'-PeCB	127	ND		20.0	4.87
3,3',4,4',5-PeCB	126	ND		20.0	5.73
2,2',4,4',6,6'-HxCB	155	ND		20.0	4.86
2,2',3,4',6,6'-HxCB	150	ND		20.0	4.86
2,2',3,5,6,6'-HxCB	152	ND		20.0	4.86
2,2',3,4,6,6'-HxCB	145	ND		20.0	4.86
2,2',3,3',6,6'-HxCB	136	ND		20.0	4.86
2,2',3,4',5,6'-HxCB	148	ND		20.0	4.86
2,2',4,4',5',6-HxCB	154	ND		20.0	4.86
2,2',3,5,5',6-HxCB	151	ND		20.0	4.86
2,2',3,3',5,6'-HxCB	135	ND		20.0	4.86
2,2',3,4,5',6-HxCB	144	ND		20.0	4.86
2,2',3,4',5,6-HxCB	147	ND		20.0	4.86
2,2',3,4,4',6-/2,2',3,4',5',6-HxCB	139/149	ND		20.0	4.86
2,2',3,4,4',6'-HxCB	140	ND		20.0	4.86
2,2',3,3',5,6-/2,2',3,4,5,6'-HxCB	134/143	ND		20.0	5.19
2,2',3,3',4,6-/2,2',3,4,5,6-HxCB	131/142	ND		20.0	5.19
2,2',3,3',5,5'-HxCB	133	ND		20.0	5.19
2,2',3,3',4,6'-/2,2',3,4',5,5'-HxCB	132/146	ND		20.0	5.19
2,3,3',4,5',6-/2,3,3',5,5',6-HxCB	161/165	ND		20.0	5.19
2,2',4,4',5,5'-HxCB	153	ND		20.0	5.19
2,3',4,4',5',6-HxCB	168	ND		20.0	5.19
2,2',3,4,5,5'-HxCB	141	ND		20.0	5.19
2,2',3,4,4',5-HxCB	137	ND		20.0	5.19
2,2',3,3',4,5'-HxCB	130	ND		20.0	5.19
2,2',3,4,4',5-/2,3,3',4',5,6-/2,3,3',4',5',6-HxCB	138/163/164	ND		20.0	5.19
2,3,3',4,4',6-/2,3,3',4,5,6-HxCB	158/160	ND		20.0	5.19
2,2',3,3',4,5-HxCB	129	ND		20.0	5.19
2,3,4,4',5,6-HxCB	166	ND		20.0	5.19
2,3,3',4,5,5'-HxCB	159	ND		20.0	5.19
2,2',3,3',4,4'-/2,3,3',4',5,5'-HxCB	128/162	ND		20.0	5.19
2,3',4,4',5,5'-HxCB	167	ND		20.0	5.19
2,3,3',4,4',5-HxCB	156	ND		20.0	4.13
2,3,3',4,4',5'-HxCB	157	ND		20.0	6.07
3,3',4,4',5,5'-HxCB	169	ND		20.0	5.20

Sample ID: Method Blank

		Ceres ID:	0-3442-MB	**Date Received:**	NA
Project:	A5C1123	**QC Batch #:**	3442	**Date Extracted:**	14-Mar-25
Matrix:	Aqueous	**Sample Size:**	1.000 L	**Analyzed Date:**	15-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2,2',3,4',5,6,6'-HpCB	188	ND		20.0	5.69
2,2',3,4,4',6,6'-HpCB	184	ND		20.0	5.69
2,2',3,3',5,6,6'-HpCB	179	ND		20.0	5.69
2,2',3,3',4,6,6'-HpCB	176	ND		20.0	5.69
2,2',3,4,5,6,6'-HpCB	186	ND		20.0	5.69
2,2',3,3',5,5',6-HpCB	178	ND		20.0	5.69
2,2',3,3',4,5',6-HpCB	175	ND		20.0	5.69
2,2',3,4,4',5,6'-/2,2',3,4',5,5',6-HpCB	182/187	ND		20.0	5.69
2,2',3,4,4',5',6-HpCB	183	ND		20.0	5.69
2,2',3,4,5,5',6-HpCB	185	ND		20.0	3.69
2,2',3,3',4,5,6'-HpCB	174	ND		20.0	3.69
2,2',3,4,4',5,6-HpCB	181	ND		20.0	3.69
2,2',3,3',4',5,6-HpCB	177	ND		20.0	3.69
2,2',3,3',4,4',6-HpCB	171	ND		20.0	3.69
2,2',3,3',4,5,6-HpCB	173	ND		20.0	3.69
2,2',3,3',4,5,5'-HpCB	172	ND		20.0	3.69
2,3,3',4,5,5',6-HpCB	192	ND		20.0	3.69
2,2',3,4,4',5,5'-HpCB	180	ND		20.0	3.69
2,3,3',4',5,5',6-HpCB	193	ND		20.0	3.69
2,3,3',4,4',5',6-HpCB	191	ND		20.0	3.69
2,2',3,3',4,4',5-HpCB	170	ND		20.0	3.69
2,3,3',4,4',5,6-HpCB	190	ND		20.0	3.69
2,3,3',4,4',5,5'-HpCB	189	ND		20.0	3.69
2,2',3,3',5,5',6,6'-OcCB	202	ND		20.0	4.31
2,2',3,3',4,5',6,6'-OcCB	201	ND		20.0	4.31
2,2',3,4,4',5,6,6'-OcCB	204	ND		20.0	4.31
2,2',3,3',4,4',6,6'-OcCB	197	ND		20.0	4.31
2,2',3,3',4,5,6,6'-OcCB	200	ND		20.0	4.31
2,2',3,3',4,5,5',6-OcCB	198	ND		20.0	4.31
2,2',3,3',4,5,5',6'-OcCB	199	ND		20.0	4.31
2,2',3,3',4,4',5,6'-/2,2',3,4,4',5,5',6-OcCB	196/203	ND		20.0	4.31
2,2',3,3',4,4',5,6-OcCB	195	ND		20.0	7.16
2,2',3,3',4,4',5,5'-OcCB	194	ND		20.0	7.16
2,3,3',4,4',5,5',6-OcCB	205	ND		20.0	7.16
2,2',3,3',4,5,5',6,6'-NoCB	208	ND		20.0	3.75
2,2',3,3',4,4',5,6,6'-NoCB	207	ND		20.0	3.75
2,2',3,3',4,4',5,5',6-NoCB	206	ND		20.0	5.61
Decachlorobiphenyl	209	ND		20.0	4.14

Sample ID: Method Blank

		Ceres ID:	0-3442-MB	**Date Received:**	NA
Project:	A5C1123	**QC Batch #:**	3442	**Date Extracted:**	14-Mar-25
Matrix:	Aqueous	**Sample Size:**	1.000 L	**Analyzed Date:**	15-Mar-25

Totals	**Chlorination Level**	**Conc. (pg/L)**	**Qual.**	**RL**
Monochlorobiphenyl	MoCB	0		20.0
Dichlorobiphenyl	DiCB	0		20.0
Trichlorobiphenyl	TrCB	0		20.0
Tetrachlorobiphenyl	TeCB	0		20.0
Pentachlorobiphenyl	PeCB	0		20.0
Hexachlorobiphenyl	HxCB	0		20.0
Heptachlorobiphenyl	HpCB	0		20.0
Octachlorobiphenyl	OcCB	0		20.0
Nonachlorobiphenyl	NoCB	0		20.0
Decachlorobiphenyl	DeCB	ND		20.0

Labeled Standards	**Congener #**	**% Rec.**	**Limits**
$^{13}C_{12}$-2-MoCB	1	133	5-145
$^{13}C_{12}$-4-MoCB	3	117	5-145
$^{13}C_{12}$-2,2'-DiCB	4	107	5-145
$^{13}C_{12}$-4,4'-DiCB	15	87.1	5-145
$^{13}C_{12}$-2,2',6-TrCB	19	142	5-145
$^{13}C_{12}$-3,4,4'-TrCB	37	46.3	5-145
$^{13}C_{12}$-2,2',6,6'-TeCB	54	54.4	5-145
$^{13}C_{12}$-3,4,4',5-TeCB	81	99.2	10-145
$^{13}C_{12}$-3,3',4,4'-TeCB	77	96.4	10-145
$^{13}C_{12}$-2,2',4,6,6'-PeCB	104	93.8	10-145
$^{13}C_{12}$-2,3',4,4',5'-PeCB	123	101	10-145
$^{13}C_{12}$-2,3',4,4',5-PeCB	118	101	10-145
$^{13}C_{12}$-2,3,4,4',5-PeCB	114	62.1	10-145
$^{13}C_{12}$-2,3,3',4,4'-PeCB	105	63.8	10-145
$^{13}C_{12}$-3,3',4,4',5-PeCB	126	58.9	10-145
$^{13}C_{12}$-2,2',4,4',6,6'-HxCB	155	127	10-145
$^{13}C_{12}$-2,3',4,4',5,5'-HxCB	167	95.3	10-145
$^{13}C_{12}$-2,3,3',4,4',5-HxCB	156	95.5	10-145
$^{13}C_{12}$-2,3,3',4,4',5'-HxCB	157	92.1	10-145
$^{13}C_{12}$-3,3',4,4',5,5'-HxCB	169	93.0	10-145
$^{13}C_{12}$-2,2',3,4',5,6,6'-HpCB	188	113	10-145
$^{13}C_{12}$-2,3,3',4,4',5,5'-HpCB	189	122	10-145
$^{13}C_{12}$-2,2',3,3',5,5',6,6'-OcCB	202	135	10-145
$^{13}C_{12}$-2,3,3',4,4',5,5',6-OcCB	205	92.4	10-145
$^{13}C_{12}$-2,2',3,3',4,5,5',6,6'-NoCB	208	98.5	10-145
$^{13}C_{12}$-2,2',3,3',4,4',5,5',6-NoCB	206	128	10-145
$^{13}C_{12}$-Decachlorobiphenyl	209	134	10-145
Cleanup Standards			
$^{13}C_{12}$-2,4,4'-TrCB	28	49.6	5-145
$^{13}C_{12}$-2,3,3',5,5'-PeCB	111	107	10-145
$^{13}C_{12}$-2,2',3,3',5,5',6-HpCB	178	117	10-145

Sample ID: **Ongoing Precision and Recovery (OPR)**

		Ceres ID:	0-3442-OPR	**Date Received:**	NA
Project:	A5C1123	**QC Batch #:**	3442	**Date Extracted:**	14-Mar-25
Matrix:	Aqueous	**Sample Size:**	1.000 L	**Analyzed Date:**	15-Mar-25

Analyte	**Congener #**	**Units**	**Conc. Found**	**Limits**
2-MoCB	1	ng/mL	32.6	30-67.5
4-MoCB	3	ng/mL	32.3	30-67.5
2,2'-/2,6-DiCB	4/10	ng/mL	77.5	60-135
4,4'-DiCB	15	ng/mL	37.8	30-67.5
2,2',6-TrCB	19	ng/mL	38.8	30-67.5
3,4,4'-TrCB	37	ng/mL	37.1	30-67.5
2,2',6,6'-TeCB	54	ng/mL	55.6	30-67.5
3,4,4',5-TeCB	81	ng/mL	39.0	30-67.5
3,3',4,4'-TeCB	77	ng/mL	43.7	30-67.5
2,2',4,6,6'-PeCB	104	ng/mL	39.6	30-67.5
2,3',4,4',5'-PeCB	123	ng/mL	39.4	30-67.5
2,3,3',4,5-/2,3',4,4',5-PeCB	106/118	ng/mL	80.4	60-135
2,3,4,4',5-PeCB	114	ng/mL	42.1	30-67.5
2,3,3',4,4'-PeCB	105	ng/mL	43.0	30-67.5
3,3',4,4',5-PeCB	126	ng/mL	42.4	30-67.5
2,2',4,4',6,6'-HxCB	155	ng/mL	42.2	30-67.5
2,3',4,4',5,5'-HxCB	167	ng/mL	38.1	30-67.5
2,3,3',4,4',5-HxCB	156	ng/mL	37.5	30-67.5
2,3,3',4,4',5'-HxCB	157	ng/mL	39.0	30-67.5
3,3',4,4',5,5'-HxCB	169	ng/mL	370	30-67.5
2,2',3,4',5,6,6'-HpCB	188	ng/mL	38.5	30-67.5
2,3,3',4,4',5,5'-HpCB	189	ng/mL	37.1	30-67.5
2,2',3,3',5,5',6,6'-OcCB	202	ng/mL	41.7	30-67.5
2,3,3',4,4',5,5',6-OcCB	205	ng/mL	45.8	30-67.5
2,2',3,3',4,5,5',6,6'-NoCB	208	ng/mL	43.9	30-67.5
2,2',3,3',4,4',5,5',6-NoCB	206	ng/mL	41.6	30-67.5
Decachlorobiphenyl	209	ng/mL	44.4	30-67.5

Sample ID: **Ongoing Precision and Recovery (OPR)**

		Ceres ID:	0-3442-OPR	**Date Received:**	NA
Project:	A5C1123	**QC Batch #:**	3442	**Date Extracted:**	14-Mar-25
Matrix:	Aqueous	**Sample Size:**	1.000 L	**Analyzed Date:**	15-Mar-25

Labeled Standards	**Congener #**	**Units**		**Limits**
$^{13}C_{12}$-2-MoCB	1	%	97.8	15-145
$^{13}C_{12}$-4-MoCB	3	%	86.6	15-145
$^{13}C_{12}$-2,2'-DiCB	4	%	108	15-145
$^{13}C_{12}$-4,4'-DiCB	15	%	84.2	15-145
$^{13}C_{12}$-2,2',6-TrCB	19	%	141	15-145
$^{13}C_{12}$-3,4,4'-TrCB	37	%	47.9	15-145
$^{13}C_{12}$-2,2',6,6'-TeCB	54	%	60.7	15-145
$^{13}C_{12}$-3,4,4',5-TeCB	81	%	95.8	40-145
$^{13}C_{12}$-3,3',4,4'-TeCB	77	%	96.7	40-145
$^{13}C_{12}$-2,2',4,6,6'-PeCB	104	%	99.1	40-145
$^{13}C_{12}$-2,3',4,4',5'-PeCB	123	%	104	40-145
$^{13}C_{12}$-2,3',4,4',5-PeCB	118	%	105	40-145
$^{13}C_{12}$-2,3,4,4',5-PeCB	114	%	60.3	40-145
$^{13}C_{12}$-2,3,3',4,4'-PeCB	105	%	60.7	40-145
$^{13}C_{12}$-3,3',4,4',5-PeCB	126	%	59.4	40-145
$^{13}C_{12}$-2,2',4,4',6,6'-HxCB	155	%	133	40-145
$^{13}C_{12}$-2,3',4,4',5,5'-HxCB	167	%	90.8	40-145
$^{13}C_{12}$-2,3,3',4,4',5-HxCB	156	%	92.3	40-145
$^{13}C_{12}$-2,3,3',4,4',5'-HxCB	157	%	93.4	40-145
$^{13}C_{12}$-3,3',4,4',5,5'-HxCB	169	%	99.2	40-145
$^{13}C_{12}$-2,2',3,4',5,6,6'-HpCB	188	%	118	40-145
$^{13}C_{12}$-2,3,3',4,4',5,5'-HpCB	189	%	128	40-145
$^{13}C_{12}$-2,2',3,3',5,5',6,6'-OcCB	202	%	144	40-145
$^{13}C_{12}$-2,3,3',4,4',5,5',6-OcCB	205	%	96.5	40-145
$^{13}C_{12}$-2,2',3,3',4,5,5',6,6'-NoCB	208	%	112	40-145
$^{13}C_{12}$-2,2',3,3',4,4',5,5',6-NoCB	206	%	138	40-145
$^{13}C_{12}$-Decachlorobiphenyl	209	%	140	40-145
Cleanup Standards				
$^{13}C_{12}$-2,4,4'-TrCB	28	%	50.3	15-145
$^{13}C_{12}$-2,3,3',5,5'-PeCB	111	%	114	40-145
$^{13}C_{12}$-2,2',3,3',5,5',6-HpCB	178	%	114	40-145

Sample ID: T1-GW-58

Project ID:	A5C1123	**Ceres ID:**	19262-001	**Date Received:**	3/11/2025
Matrix:	Aqueous	**QC Batch #:**	3442	**Date Extracted:**	3/14/2025
Date & Time Sampled:	3/7/2025 9:58	**Sample Size:**	1.036 L	**Analyzed Date:**	3/15/2025

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2-MoCB	1	27.6		19.3	2.08
3-MoCB	2	ND		19.3	3.49
4-MoCB	3	25.7		19.3	3.49
2,2'-/2,6-DiCB	4/10	40.0		19.3	8.07
2,4-/2,5-DiCB	7/9	ND		19.3	8.07
2,3'-DiCB	6	31.3		19.3	8.07
2,3-/2,4'-DiCB	5/8	230		19.3	8.07
3,5-DiCB	14	ND		19.3	8.31
3,3'-DiCB	11	1850		19.3	8.31
3,4-/3,4'-DiCB	12/13	ND		19.3	8.31
4,4'-DiCB	15	292		19.3	8.31
2,2',6-TrCB	19	78.7		19.3	4.97
2,4,6-TrCB	30	ND		19.3	4.97
2,2',5-TrCB	18	1350		19.3	4.97
2,2',4-TrCB	17	587		19.3	4.97
2,3,6-/2,3',6-TrCB	24/27	137		19.3	4.97
2,2',3-/2,4',6-TrCB	16/32	1110		19.3	4.97
2',3,5-TrCB	34	ND		19.3	5.86
2,3,5-TrCB	23	ND		19.3	5.86
2,4,5-TrCB	29	ND		19.3	5.86
2,3',5-TrCB	26	286		19.3	5.86
2,3',4-TrCB	25	137		19.3	5.86
2,4',5-TrCB	31	1870		19.3	5.86
2,4,4'-TrCB	28	2040		19.3	5.86
2,3,3'-/2,3,4-/2',3,4-TrCB	20/21/33	1740		19.3	5.86
2,3,4'-TrCB	22	863		19.3	5.86
3,3',5-TrCB	36	ND		19.3	5.86
3,4',5-TrCB	39	ND		19.3	5.86
3,4,5-TrCB	38	ND		19.3	5.86
3,3',4-TrCB	35	36.2		19.3	5.86
3,4,4'-TrCB	37	554		19.3	5.86
2,2',6,6'-TeCB	54	ND		19.3	3.75
2,2',4,6-TeCB	50	ND		19.3	3.75
2,2',5,6'-TeCB	53	341		19.3	3.75
2,2',4,6'-TeCB	51	154		19.3	3.75
2,2',3,6-TeCB	45	475		19.3	3.75
2,2',3,6'-TeCB	46	233		19.3	3.75
2,2',5,5'-/2,3',4,6-TeCB	52/69	2340		19.3	3.75
2,3',5',6-TeCB	73	ND		19.3	3.75
2,2',3-5-/2,2',4,5'-TeCB	43/49	2180		19.3	3.75
2,2',4,4'-TeCB	47	812		19.3	3.75
2,2',4,5-/2,4,4',6-TeCB	48/75	642		19.3	3.75
2,3,5,6-TeCB	65	ND		19.3	3.75
2,3,4,6-TeCB	62	ND		19.3	3.75

Sample ID: T1-GW-58

Project:	A5C1123	**Ceres ID:**	19262-001	**Date Received:**	11-Mar-25
Matrix:	Aqueous	**QC Batch #:**	3442	**Date Extracted:**	14-Mar-25
Date & Time Sampled:	3/7/2025 9:58	**Sample Size:**	1.036 L	**Analyzed Date:**	15-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2,2',3,5'-TeCB	44	2610		19.3	3.75
2,2',3,4'-/2,3,3',6-TeCB	42/59	1050		19.3	3.75
2,2',3,4-/2,3,4',6-/2,3',4',6-/2,3',5,5'-TeCB	41/64/71/72	2840		19.3	3.75
2,3',4,5'-TeCB	68	ND		19.3	3.75
2,2',3,3'-TeCB	40	598		19.3	3.75
2,3,3',5-TeCB	57	ND		19.3	3.75
2,3',4,5-TeCB	67	150		19.3	3.75
2,3,3',5'-TeCB	58	ND		19.3	3.75
2,3,4',5-TeCB	63	87.9		19.3	3.75
2,4,4',5-TeCB	74	1370		19.3	3.75
2,3,4,5-/2,3',4',5-TeCB	61/70	2930		19.3	3.75
2,3',4,4'-/2',3,4,5-TeCB	66/76	2340		19.3	3.75
3,3',5,5'-TeCB	80	ND		19.3	3.75
2,3,3',4-TeCB	55	100		19.3	3.75
2,3,3',4'-/2,3,4,4'-TeCB	56/60	1400		19.3	3.59
3,3',4,5'-TeCB	79	ND		19.3	3.59
3,3',4,5-TeCB	78	ND		19.3	3.59
3,4,4',5-TeCB	81	29.8		19.3	3.59
3,3',4,4'-TeCB	77	86.3		19.3	5.22
2,2',4,6,6'-PeCB	104	ND		19.3	4.75
2,2',3,6,6'-PeCB	96	ND		19.3	4.75
2,2',4,5'6-PeCB	103	ND		19.3	4.75
2,2',4,4',6-PeCB	100	ND		19.3	4.75
2,2',3,5,6'-PeCB	94	ND		19.3	4.75
2,2',3,5,6-/2,2',3,5',6-/2,2',3',4,6-/2,2',4,5,6'-PeCB	93/95/98/102	1060		19.3	4.75
2,2',3,4,6-PeCB	88/91	251		19.3	4.75
2,3',4,5',6-PeCB	121	ND		19.3	4.75
2,2',3,3',6-/2,2',3,5,5'-PeCB	84/92	416		19.3	3.46
2,2',3,4,6'-PeCB	89	28.1		19.3	3.46
2,2',3,4',5-/2,2',4,5,5'-PeCB	90/101	778		19.3	3.46
2,3,3',5',6-PeCB	113	ND		19.3	3.46
2,2',4,4',5-PeCB	99	322		19.3	3.46
2,2',3,3',5-PeCB	83	ND		19.3	3.46
2,3,3',5,6-/2,3',4,4',6-PeCB	112/119	59.2		19.3	3.46
2,3,3',4,6-PeCB	109	ND		19.3	3.46
2,2',3',4,5-PeCB	97	280		19.3	3.46
2,2',3,4,5-PeCB	86	ND		19.3	3.46
2,2',3,4,5'-/2,3,4',5,6-/2',3,4,5,6'-PeCB	87/117/125	303		19.3	3.46
2,3,3',5,5'-/2,3,4,4',6-PeCB	111/115	ND		19.3	3.46
2,2',3,4,4'-/2,3,4,5,6-PeCB	85/116	148		19.3	3.46
2,3',4,5,5'-PeCB	120	ND		19.3	3.46
2-3,3',4',6-PeCB	110	940		19.3	3.46

Sample ID: T1-GW-58

Project:	A5C1123	**Ceres ID:**	19262-001	**Date Received:**	11-Mar-25
Matrix:	Aqueous	**QC Batch #:**	3442	**Date Extracted:**	14-Mar-25
Date & Time Sampled:	3/7/2025 9:58	**Sample Size:**	1.036 L	**Analyzed Date:**	15-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2,2',3,3',4-PeCB	82	117		19.3	3.46
2',3,4,5,5'-PeCB	124	29.5		19.3	3.46
2,3,3',4',5-/2,3,3',4,5'-PeCB	107/108	29.3		19.3	3.46
2,3',4,4',5'-PeCB	123	9.98	J	19.3	3.46
2,3,3',4,5-/2,3',4,4',5-PeCB	106/118	423		19.3	5.58
2,3,4,4',5-PeCB	114	15.8	J	19.3	3.25
2',3,3',4,5-PeCB	122	ND		19.3	3.25
2,3,3',4,4'-PeCB	105	236		19.3	4.87
3,3',4,5,5'-PeCB	127	ND		19.3	4.87
3,3',4,4',5-PeCB	126	ND		19.3	5.73
2,2',4,4',6,6'-HxCB	155	ND		19.3	4.86
2,2',3,4',6,6'-HxCB	150	ND		19.3	4.86
2,2',3,5,6,6'-HxCB	152	ND		19.3	4.86
2,2',3,4,6,6'-HxCB	145	ND		19.3	4.86
2,2',3,3',6,6'-HxCB	136	107		19.3	4.86
2,2',3,4',5,6'-HxCB	148	ND		19.3	4.86
2,2',4,4',5',6-HxCB	154	ND		19.3	4.86
2,2',3,5,5',6-HxCB	151	127		19.3	4.86
2,2',3,3',5,6'-HxCB	135	73.2		19.3	4.86
2,2',3,4,5',6-HxCB	144	30.0		19.3	4.86
2,2',3,4',5,6-HxCB	147	ND		19.3	4.86
2,2',3,4,4',6-/2,2',3,4',5',6-HxCB	139/149	469		19.3	4.86
2,2',3,4,4',6'-HxCB	140	ND		19.3	4.86
2,2',3,3',5,6-/2,2',3,4,5,6'-HxCB	134/143	36.6		19.3	5.19
2,2',3,3',4,6-/2,2',3,4,5,6-HxCB	131/142	14.7	J	19.3	5.19
2,2',3,3',5,5'-HxCB	133	ND		19.3	5.19
2,2',3,3',4,6'-/2,2',3,4',5,5'-HxCB	132/146	85.1		19.3	5.19
2,3,3',4,5',6-/2,3,3',5,5',6-HxCB	161/165	193		19.3	5.19
2,2',4,4',5,5'-HxCB	153	363		19.3	5.19
2,3',4,4',5',6-HxCB	168	ND		19.3	5.19
2,2',3,4,5,5'-HxCB	141	94.6		19.3	5.19
2,2',3,4,4',5-HxCB	137	32.5		19.3	5.19
2,2',3,3',4,5'-HxCB	130	37.6		19.3	5.19
2,2',3,4,4',5-/2,3,3',4',5,6-/2,3,3',4',5',6-HxCB	138/163/164	468		19.3	5.19
2,3,3',4,4',6-/2,3,3',4,5,6-HxCB	158/160	49.5		19.3	5.19
2,2',3,3',4,5-HxCB	129	21.1		19.3	5.19
2,3,4,4',5,6-HxCB	166	ND		19.3	5.19
2,3,3',4,5,5'-HxCB	159	ND		19.3	5.19
2,2',3,3',4,4'-/2,3,3',4',5,5'-HxCB	128/162	84.9		19.3	5.19
2,3',4,4',5,5'-HxCB	167	21.1		19.3	5.19
2,3,3',4,4',5-HxCB	156	45.7		19.3	4.13
2,3,3',4,4',5'-HxCB	157	16.1	J	19.3	6.07
3,3',4,4',5,5'-HxCB	169	ND		19.3	5.20

Sample ID: T1-GW-58

Project:	A5C1123	**Ceres ID:**	19262-001	**Date Received:**	11-Mar-25
Matrix:	Aqueous	**QC Batch #:**	3442	**Date Extracted:**	14-Mar-25
Date & Time Sampled:	3/7/2025 9:58	**Sample Size:**	1.036 L	**Analyzed Date:**	15-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2,2',3,4',5,6,6'-HpCB	188	ND		19.3	5.69
2,2',3,4,4',6,6'-HpCB	184	ND		19.3	5.69
2,2',3,3',5,6,6'-HpCB	179	61.6		19.3	5.69
2,2',3,3',4,6,6'-HpCB	176	ND		19.3	5.69
2,2',3,4,5,6,6'-HpCB	186	ND		19.3	5.69
2,2',3,3',5,5',6-HpCB	178	27.1		19.3	5.69
2,2',3,3',4,5',6-HpCB	175	ND		19.3	5.69
2,2',3,4,4',5,6'-/2,2',3,4',5,5',6-HpCB	182/187	141		19.3	5.69
2,2',3,4,4',5',6-HpCB	183	66.9		19.3	5.69
2,2',3,4,5,5',6-HpCB	185	35.9		19.3	3.69
2,2',3,3',4,5,6'-HpCB	174	259		19.3	3.69
2,2',3,4,4',5,6-HpCB	181	ND		19.3	3.69
2,2',3,3',4',5,6-HpCB	177	160		19.3	3.69
2,2',3,3',4,4',6-HpCB	171	71.3		19.3	3.69
2,2',3,3',4,5,6-HpCB	173	ND		19.3	3.69
2,2',3,3',4,5,5'-HpCB	172	41.9		19.3	3.69
2,3,3',4,5,5',6-HpCB	192	ND		19.3	3.69
2,2',3,4,4',5,5'-HpCB	180	628		19.3	3.69
2,3,3',4',5,5',6-HpCB	193	32.2		19.3	3.69
2,3,3',4,4',5',6-HpCB	191	ND		19.3	3.69
2,2',3,3',4,4',5-HpCB	170	226		19.3	3.69
2,3,3',4,4',5,6-HpCB	190	52.4		19.3	3.69
2,3,3',4,4',5,5'-HpCB	189	ND		19.3	3.69
2,2',3,3',5,5',6,6'-OcCB	202	31.5		19.3	4.31
2,2',3,3',4,5',6,6'-OcCB	201	ND		19.3	4.31
2,2',3,4,4',5,6,6'-OcCB	204	ND		19.3	4.31
2,2',3,3',4,4',6,6'-OcCB	197	ND		19.3	4.31
2,2',3,3',4,5,6,6'-OcCB	200	ND		19.3	4.31
2,2',3,3',4,5,5',6-OcCB	198	ND		19.3	4.31
2,2',3,3',4,5,5',6'-OcCB	199	93.4		19.3	4.31
2,2',3,3',4,4',5,6'-/2,2',3,4,4',5,5',6-OcCB	196/203	111		19.3	4.31
2,2',3,3',4,4',5,6-OcCB	195	33.8		19.3	7.16
2,2',3,3',4,4',5,5'-OcCB	194	77.3		19.3	7.16
2,3,3',4,4',5,5',6-OcCB	205	ND		19.3	7.16
2,2',3,3',4,5,5',6,6'-NoCB	208	39.7		19.3	3.75
2,2',3,3',4,4',5,6,6'-NoCB	207	19.4		19.3	3.75
2,2',3,3',4,4',5,5',6-NoCB	206	95.2		19.3	5.61
Decachlorobiphenyl	209	96.0		19.3	4.14

Sample ID: T1-GW-58

Project:	A5C1123	**Ceres ID:**	19262-001	**Date Received:**	11-Mar-25
Matrix:	Aqueous	**QC Batch #:**	3442	**Date Extracted:**	14-Mar-25
Date & Time Sampled:	3/7/2025 9:58	**Sample Size:**	1.036 L	**Analyzed Date:**	15-Mar-25

Totals	**Chlorination Level**	**Conc. (pg/L)**	**Qual.**	**RL**
Monochlorobiphenyl	MoCB	53.3		19.3
Dichlorobiphenyl	DiCB	2443		19.3
Trichlorobiphenyl	TrCB	10789		19.3
Tetrachlorobiphenyl	TeCB	22769		19.3
Pentachlorobiphenyl	PeCB	5446		19.3
Hexachlorobiphenyl	HxCB	2370		19.3
Heptachlorobiphenyl	HpCB	1803.3		19.3
Octachlorobiphenyl	OcCB	347		19.3
Nonachlorobiphenyl	NoCB	154.3		19.3
Decachlorobiphenyl	DeCB	96.0		19.3

Labeled Standards	**Congener #**	**% Rec.**	**Limits**
$^{13}C_{12}$-2-MoCB	1	81.2	5-145
$^{13}C_{12}$-4-MoCB	3	78.3	5-145
$^{13}C_{12}$-2,2'-DiCB	4	71.4	5-145
$^{13}C_{12}$-4,4'-DiCB	15	63.0	5-145
$^{13}C_{12}$-2,2',6-TrCB	19	92.5	5-145
$^{13}C_{12}$-3,4,4'-TrCB	37	29.5	5-145
$^{13}C_{12}$-2,2',6,6'-TeCB	54	56.6	5-145
$^{13}C_{12}$-3,4,4',5-TeCB	81	87.3	10-145
$^{13}C_{12}$-3,3',4,4'-TeCB	77	84.7	10-145
$^{13}C_{12}$-2,2',4,6,6'-PeCB	104	55.4	10-145
$^{13}C_{12}$-2,3',4,4',5'-PeCB	123	72.9	10-145
$^{13}C_{12}$-2,3',4,4',5-PeCB	118	73.8	10-145
$^{13}C_{12}$-2,3,4,4',5-PeCB	114	53.3	10-145
$^{13}C_{12}$-2,3,3',4,4'-PeCB	105	56.6	10-145
$^{13}C_{12}$-3,3',4,4',5-PeCB	126	57.7	10-145
$^{13}C_{12}$-2,2',4,4',6,6'-HxCB	155	99.1	10-145
$^{13}C_{12}$-2,3',4,4',5,5'-HxCB	167	73.3	10-145
$^{13}C_{12}$-2,3,3',4,4',5-HxCB	156	68.2	10-145
$^{13}C_{12}$-2,3,3',4,4',5'-HxCB	157	66.5	10-145
$^{13}C_{12}$-3,3',4,4',5,5'-HxCB	169	70.1	10-145
$^{13}C_{12}$-2,2',3,4',5,6,6'-HpCB	188	85.5	10-145
$^{13}C_{12}$-2,3,3',4,4',5,5'-HpCB	189	35.0	10-145
$^{13}C_{12}$-2,2',3,3',5,5',6,6'-OcCB	202	86.5	10-145
$^{13}C_{12}$-2,3,3',4,4',5,5',6-OcCB	205	63.1	10-145
$^{13}C_{12}$-2,2',3,3',4,5,5',6,6'-NoCB	208	65.2	10-145
$^{13}C_{12}$-2,2',3,3',4,4',5,5',6-NoCB	206	63.2	10-145
$^{13}C_{12}$-Decachlorobiphenyl	209	58.3	10-145
Cleanup Standards			
$^{13}C_{12}$-2,4,4'-TrCB	28	48.3	5-145
$^{13}C_{12}$-2,3,3',5,5'-PeCB	111	129	10-145
$^{13}C_{12}$-2,2',3,3',5,5',6-HpCB	178	131	10-145

Sample ID: T1-GW-70

Project ID:	A5C1123	**Ceres ID:**	19262-002	**Date Received:**	3/11/2025
Matrix:	Aqueous	**QC Batch #:**	3442	**Date Extracted:**	3/14/2025
Date & Time Sampled:	3/7/2025 13:28	**Sample Size:**	1.030 L	**Analyzed Date:**	3/17/2025

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2-MoCB	1	ND		19.4	2.08
3-MoCB	2	ND		19.4	3.49
4-MoCB	3	53.7		19.4	3.49
2,2'-/2,6-DiCB	4/10	30.0		19.4	8.07
2,4-/2,5-DiCB	7/9	ND		19.4	8.07
2,3'-DiCB	6	34.1		19.4	8.07
2,3-/2,4'-DiCB	5/8	353		19.4	8.07
3,5-DiCB	14	ND		19.4	8.31
3,3'-DiCB	11	3310		19.4	8.31
3,4-/3,4'-DiCB	12/13	ND		19.4	8.31
4,4'-DiCB	15	432		19.4	8.31
2,2',6-TrCB	19	62.6		19.4	4.97
2,4,6-TrCB	30	ND		19.4	4.97
2,2',5-TrCB	18	1150		19.4	4.97
2,2',4-TrCB	17	587		19.4	4.97
2,3,6-/2,3',6-TrCB	24/27	130		19.4	4.97
2,2',3-/2,4',6-TrCB	16/32	1300		19.4	4.97
2',3,5-TrCB	34	ND		19.4	5.86
2,3,5-TrCB	23	ND		19.4	5.86
2,4,5-TrCB	29	26.2		19.4	5.86
2,3',5-TrCB	26	806		19.4	5.86
2,3',4-TrCB	25	428		19.4	5.86
2,4',5-TrCB	31	4960		19.4	5.86
2,4,4'-TrCB	28	5600		19.4	5.86
2,3,3'-/2,3,4-/2',3,4-TrCB	20/21/33	5070		19.4	5.86
2,3,4'-TrCB	22	2480		19.4	5.86
3,3',5-TrCB	36	ND		19.4	5.86
3,4',5-TrCB	39	ND		19.4	5.86
3,4,5-TrCB	38	28.5		19.4	5.86
3,3',4-TrCB	35	81.6		19.4	5.86
3,4,4'-TrCB	37	1600		19.4	5.86
2,2',6,6'-TeCB	54	ND		19.4	3.75
2,2',4,6-TeCB	50	ND		19.4	3.75
2,2',5,6'-TeCB	53	452		19.4	3.75
2,2',4,6'-TeCB	51	179		19.4	3.75
2,2',3,6-TeCB	45	593		19.4	3.75
2,2',3,6'-TeCB	46	287		19.4	3.75
2,2',5,5'-/2,3',4,6-TeCB	52/69	2790		19.4	3.75
2,3',5',6-TeCB	73	ND		19.4	3.75
2,2',3-5-/2,2',4,5'-TeCB	43/49	2710		19.4	3.75
2,2',4,4'-TeCB	47	1020		19.4	3.75
2,2',4,5-/2,4,4',6-TeCB	48/75	892		19.4	3.75
2,3,5,6-TeCB	65	ND		19.4	3.75
2,3,4,6-TeCB	62	ND		19.4	3.75

Sample ID: T1-GW-70

Project:	A5C1123	**Ceres ID:**	19262-002	**Date Received:**	11-Mar-25
Matrix:	Aqueous	**QC Batch #:**	3442	**Date Extracted:**	14-Mar-25
Date & Time Sampled:	3/7/2025 13:28	**Sample Size:**	1.030 L	**Analyzed Date:**	17-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2,2',3,5'-TeCB	44	3610		19.4	3.75
2,2',3,4'-/2,3,3',6-TeCB	42/59	1510		19.4	3.75
2,2',3,4-/2,3,4',6-/2,3',4',6-/2,3',5,5'-TeCB	41/64/71/72	3650		19.4	3.75
2,3',4,5'-TeCB	68	35.1		19.4	3.75
2,2',3,3'-TeCB	40	843		19.4	3.75
2,3,3',5-TeCB	57	25.3		19.4	3.75
2,3',4,5-TeCB	67	ND		19.4	3.75
2,3,3',5'-TeCB	58	183		19.4	3.75
2,3,4',5-TeCB	63	176		19.4	3.75
2,4,4',5-TeCB	74	1670		19.4	3.75
2,3,4,5-/2,3',4',5-TeCB	61/70	3520		19.4	3.75
2,3',4,4'-/2',3,4,5-TeCB	66/76	3000		19.4	3.75
3,3',5,5'-TeCB	80	ND		19.4	3.75
2,3,3',4-TeCB	55	116		19.4	3.75
2,3,3',4'-/2,3,4,4'-TeCB	56/60	2170		19.4	3.59
3,3',4,5'-TeCB	79	ND		19.4	3.59
3,3',4,5-TeCB	78	ND		19.4	3.59
3,4,4',5-TeCB	81	27.0		19.4	3.59
3,3',4,4'-TeCB	77	104		19.4	5.22
2,2',4,6,6'-PeCB	104	ND		19.4	4.75
2,2',3,6,6'-PeCB	96	ND		19.4	4.75
2,2',4,5'6-PeCB	103	ND		19.4	4.75
2,2',4,4',6-PeCB	100	ND		19.4	4.75
2,2',3,5,6'-PeCB	94	ND		19.4	4.75
2,2',3,5,6-/2,2',3,5',6-/2,2',3',4,6-/2,2',4,5,6'-PeCB	93/95/98/102	672		19.4	4.75
2,2',3,4,6-PeCB	88/91	156		19.4	4.75
2,3',4,5',6-PeCB	121	ND		19.4	4.75
2,2',3,3',6-/2,2',3,5,5'-PeCB	84/92	280		19.4	3.46
2,2',3,4,6'-PeCB	89	26.7		19.4	3.46
2,2',3,4',5-/2,2',4,5,5'-PeCB	90/101	642		19.4	3.46
2,3,3',5',6-PeCB	113	ND		19.4	3.46
2,2',4,4',5-PeCB	99	215		19.4	3.46
2,2',3,3',5-PeCB	83	ND		19.4	3.46
2,3,3',5,6-/2,3',4,4',6-PeCB	112/119	43.3		19.4	3.46
2,3,3',4,6-PeCB	109	ND		19.4	3.46
2,2',3',4,5-PeCB	97	244		19.4	3.46
2,2',3,4,5-PeCB	86	ND		19.4	3.46
2,2',3,4,5'-/2,3,4',5,6-/2',3,4,5,6'-PeCB	87/117/125	219		19.4	3.46
2,3,3',5,5'-/2,3,4,4',6-PeCB	111/115	ND		19.4	3.46
2,2',3,4,4'-/2,3,4,5,6-PeCB	85/116	94.7		19.4	3.46
2,3',4,5,5'-PeCB	120	ND		19.4	3.46
2-3,3',4',6-PeCB	110	517		19.4	3.46

Sample ID: T1-GW-70

Project:	A5C1123	**Ceres ID:**	19262-002	**Date Received:**	11-Mar-25
Matrix:	Aqueous	**QC Batch #:**	3442	**Date Extracted:**	14-Mar-25
Date & Time Sampled:	3/7/2025 13:28	**Sample Size:**	1.030 L	**Analyzed Date:**	17-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2,2',3,3',4-PeCB	82	124		19.4	3.46
2',3,4,5,5'-PeCB	124	ND		19.4	3.46
2,3,3',4',5-/2,3,3',4,5'-PeCB	107/108	21.4		19.4	3.46
2,3',4,4',5'-PeCB	123	9.86	J	19.4	3.46
2,3,3',4,5-/2,3',4,4',5-PeCB	106/118	282		19.4	5.58
2,3,4,4',5-PeCB	114	ND		19.4	3.25
2',3,3',4,5-PeCB	122	ND		19.4	3.25
2,3,3',4,4'-PeCB	105	121		19.4	4.87
3,3',4,5,5'-PeCB	127	ND		19.4	4.87
3,3',4,4',5-PeCB	126	ND		19.4	5.73
2,2',4,4',6,6'-HxCB	155	ND		19.4	4.86
2,2',3,4',6,6'-HxCB	150	ND		19.4	4.86
2,2',3,5,6,6'-HxCB	152	ND		19.4	4.86
2,2',3,4,6,6'-HxCB	145	ND		19.4	4.86
2,2',3,3',6,6'-HxCB	136	43.8		19.4	4.86
2,2',3,4',5,6'-HxCB	148	ND		19.4	4.86
2,2',4,4',5',6-HxCB	154	ND		19.4	4.86
2,2',3,5,5',6-HxCB	151	79.1		19.4	4.86
2,2',3,3',5,6'-HxCB	135	41.2		19.4	4.86
2,2',3,4,5',6-HxCB	144	ND		19.4	4.86
2,2',3,4',5,6-HxCB	147	ND		19.4	4.86
2,2',3,4,4',6-/2,2',3,4',5',6-HxCB	139/149	236		19.4	4.86
2,2',3,4,4',6'-HxCB	140	ND		19.4	4.86
2,2',3,3',5,6-/2,2',3,4,5,6'-HxCB	134/143	17.9	J	19.4	5.19
2,2',3,3',4,6-/2,2',3,4,5,6-HxCB	131/142	ND		19.4	5.19
2,2',3,3',5,5'-HxCB	133	ND		19.4	5.19
2,2',3,3',4,6'-/2,2',3,4',5,5'-HxCB	132/146	29.4		19.4	5.19
2,3,3',4,5',6-/2,3,3',5,5',6-HxCB	161/165	71.0		19.4	5.19
2,2',4,4',5,5'-HxCB	153	157		19.4	5.19
2,3',4,4',5',6-HxCB	168	ND		19.4	5.19
2,2',3,4,5,5'-HxCB	141	35.5		19.4	5.19
2,2',3,4,4',5-HxCB	137	ND		19.4	5.19
2,2',3,3',4,5'-HxCB	130	ND		19.4	5.19
2,2',3,4,4',5-/2,3,3',4',5,6-/2,3,3',4',5',6-HxCB	138/163/164	175		19.4	5.19
2,3,3',4,4',6-/2,3,3',4,5,6-HxCB	158/160	18.2	J	19.4	5.19
2,2',3,3',4,5-HxCB	129	ND		19.4	5.19
2,3,4,4',5,6-HxCB	166	ND		19.4	5.19
2,3,3',4,5,5'-HxCB	159	ND		19.4	5.19
2,2',3,3',4,4'-/2,3,3',4',5,5'-HxCB	128/162	27.3		19.4	5.19
2,3',4,4',5,5'-HxCB	167	9.95	J	19.4	5.19
2,3,3',4,4',5-HxCB	156	15.5	J	19.4	4.13
2,3,3',4,4',5'-HxCB	157	ND		19.4	6.07
3,3',4,4',5,5'-HxCB	169	ND		19.4	5.20

Sample ID: T1-GW-70

Project:	A5C1123	**Ceres ID:**	19262-002	**Date Received:**	11-Mar-25
Matrix:	Aqueous	**QC Batch #:**	3442	**Date Extracted:**	14-Mar-25
Date & Time Sampled:	3/7/2025 13:28	**Sample Size:**	1.030 L	**Analyzed Date:**	17-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2,2',3,4',5,6,6'-HpCB	188	ND		19.4	5.69
2,2',3,4,4',6,6'-HpCB	184	ND		19.4	5.69
2,2',3,3',5,6,6'-HpCB	179	27.8		19.4	5.69
2,2',3,3',4,6,6'-HpCB	176	ND		19.4	5.69
2,2',3,4,5,6,6'-HpCB	186	ND		19.4	5.69
2,2',3,3',5,5',6-HpCB	178	ND		19.4	5.69
2,2',3,3',4,5',6-HpCB	175	ND		19.4	5.69
2,2',3,4,4',5,6'-/2,2',3,4',5,5',6-HpCB	182/187	48.2		19.4	5.69
2,2',3,4,4',5',6-HpCB	183	22.8		19.4	5.69
2,2',3,4,5,5',6-HpCB	185	ND	*	19.4	3.69
2,2',3,3',4,5,6'-HpCB	174	ND	*	19.4	3.69
2,2',3,4,4',5,6-HpCB	181	ND	*	19.4	3.69
2,2',3,3',4',5,6-HpCB	177	ND	*	19.4	3.69
2,2',3,3',4,4',6-HpCB	171	ND	*	19.4	3.69
2,2',3,3',4,5,6-HpCB	173	ND	*	19.4	3.69
2,2',3,3',4,5,5'-HpCB	172	ND	*	19.4	3.69
2,3,3',4,5,5',6-HpCB	192	ND	*	19.4	3.69
2,2',3,4,4',5,5'-HpCB	180	94.2	*	19.4	3.69
2,3,3',4',5,5',6-HpCB	193	ND	*	19.4	3.69
2,3,3',4,4',5',6-HpCB	191	ND	*	19.4	3.69
2,2',3,3',4,4',5-HpCB	170	ND	*	19.4	3.69
2,3,3',4,4',5,6-HpCB	190	ND	*	19.4	3.69
2,3,3',4,4',5,5'-HpCB	189	ND	*	19.4	3.69
2,2',3,3',5,5',6,6'-OcCB	202	ND		19.4	4.31
2,2',3,3',4,5',6,6'-OcCB	201	ND		19.4	4.31
2,2',3,4,4',5,6,6'-OcCB	204	ND		19.4	4.31
2,2',3,3',4,4',6,6'-OcCB	197	ND		19.4	4.31
2,2',3,3',4,5,6,6'-OcCB	200	ND		19.4	4.31
2,2',3,3',4,5,5',6-OcCB	198	ND		19.4	4.31
2,2',3,3',4,5,5',6'-OcCB	199	31.7		19.4	4.31
2,2',3,3',4,4',5,6'-/2,2',3,4,4',5,5',6-OcCB	196/203	33.4		19.4	4.31
2,2',3,3',4,4',5,6-OcCB	195	ND		19.4	7.16
2,2',3,3',4,4',5,5'-OcCB	194	28.8		19.4	7.16
2,3,3',4,4',5,5',6-OcCB	205	ND		19.4	7.16
2,2',3,3',4,5,5',6,6'-NoCB	208	ND		19.4	3.75
2,2',3,3',4,4',5,6,6'-NoCB	207	ND		19.4	3.75
2,2',3,3',4,4',5,5',6-NoCB	206	ND		19.4	5.61
Decachlorobiphenyl	209	ND		19.4	4.14

Sample ID: T1-GW-70

Project:	A5C1123	**Ceres ID:**	19262-002	**Date Received:**	11-Mar-25
Matrix:	Aqueous	**QC Batch #:**	3442	**Date Extracted:**	14-Mar-25
Date & Time Sampled:	3/7/2025 13:28	**Sample Size:**	1.030 L	**Analyzed Date:**	17-Mar-25

Totals	**Chlorination Level**	**Conc. (pg/L)**	**Qual.**	**RL**
Monochlorobiphenyl	MoCB	53.7		19.4
Dichlorobiphenyl	DiCB	4159		19.4
Trichlorobiphenyl	TrCB	24310		19.4
Tetrachlorobiphenyl	TeCB	29562		19.4
Pentachlorobiphenyl	PeCB	3668		19.4
Hexachlorobiphenyl	HxCB	957		19.4
Heptachlorobiphenyl	HpCB	193		19.4
Octachlorobiphenyl	OcCB	93.9		19.4
Nonachlorobiphenyl	NoCB	0		19.4
Decachlorobiphenyl	DeCB	ND		19.4

Labeled Standards	**Congener #**	**% Rec.**		**Limits**
$^{13}C_{12}$-2-MoCB	1	27.3		5-145
$^{13}C_{12}$-4-MoCB	3	25.1		5-145
$^{13}C_{12}$-2,2'-DiCB	4	25.7		5-145
$^{13}C_{12}$-4,4'-DiCB	15	19.3		5-145
$^{13}C_{12}$-2,2',6-TrCB	19	47.2		5-145
$^{13}C_{12}$-3,4,4'-TrCB	37	19.8		5-145
$^{13}C_{12}$-2,2',6,6'-TeCB	54	22.1		5-145
$^{13}C_{12}$-3,4,4',5-TeCB	81	26.7		10-145
$^{13}C_{12}$-3,3',4,4'-TeCB	77	26.7		10-145
$^{13}C_{12}$-2,2',4,6,6'-PeCB	104	21.9		10-145
$^{13}C_{12}$-2,3',4,4',5'-PeCB	123	26.9		10-145
$^{13}C_{12}$-2,3',4,4',5-PeCB	118	28.1		10-145
$^{13}C_{12}$-2,3,4,4',5-PeCB	114	15.8		10-145
$^{13}C_{12}$-2,3,3',4,4'-PeCB	105	16.7		10-145
$^{13}C_{12}$-3,3',4,4',5-PeCB	126	16.2		10-145
$^{13}C_{12}$-2,2',4,4',6,6'-HxCB	155	34.6		10-145
$^{13}C_{12}$-2,3',4,4',5,5'-HxCB	167	25.1		10-145
$^{13}C_{12}$-2,3,3',4,4',5-HxCB	156	21.9		10-145
$^{13}C_{12}$-2,3,3',4,4',5'-HxCB	157	24.8		10-145
$^{13}C_{12}$-3,3',4,4',5,5'-HxCB	169	24.8		10-145
$^{13}C_{12}$-2,2',3,4',5,6,6'-HpCB	188	30.1		10-145
$^{13}C_{12}$-2,3,3',4,4',5,5'-HpCB	189	29.4	*	10-145
$^{13}C_{12}$-2,2',3,3',5,5',6,6'-OcCB	202	40.4		10-145
$^{13}C_{12}$-2,3,3',4,4',5,5',6-OcCB	205	21.0		10-145
$^{13}C_{12}$-2,2',3,3',4,5,5',6,6'-NoCB	208	25.2		10-145
$^{13}C_{12}$-2,2',3,3',4,4',5,5',6-NoCB	206	31.4		10-145
$^{13}C_{12}$-Decachlorobiphenyl	209	36.7		10-145
Cleanup Standards				
$^{13}C_{12}$-2,4,4'-TrCB	28	71.0		5-145
$^{13}C_{12}$-2,3,3',5,5'-PeCB	111	114		10-145
$^{13}C_{12}$-2,2',3,3',5,5',6-HpCB	178	134		10-145

Section VI: Sample Tracking

SUBCONTRACT ORDER

Apex Laboratories

QB 3/7/25 **A5C1123** ZA

SENDING LABORATORY:

Apex Laboratories
6700 S.W. Sandburg Street
Tigard, OR 97223
Phone: (503) 718-2323
Fax: (503) 336-0745
Project Manager: Darrell Auvil

RECEIVING LABORATORY:

Ceres Analytical Laboratory, Inc
4919 Windplay Drive, Suite 1
El Dorado Hills, CA 95762
Phone :(916) 932-5011
Fax: -9

Sample Name: T1-GW-58 **Water** **Sampled: 03/07/25 09:58** (A5C1123-01)

Analysis	Due	Expires	Comments
1668C PCB Congeners (SUB)	03/20/25 17:00	03/07/26 09:58	
Containers Supplied:			
(J)1 L Amber Glass - Non Preserved			

Sample Name: T1-GW-70 **Water** **Sampled: 03/07/25 13:28** (A5C1123-02)

Analysis	Due	Expires	Comments
1668C PCB Congeners (SUB)	03/20/25 17:00	03/07/26 13:28	
Containers Supplied:			
(J)1 L Amber Glass - Non Preserved			

Standard TAT

Released By	Date	Received By	Date
	3/10/25	UPS (Shipper)	
UPS (Shipper)			3/11/25 1140
Released By	Date	Received By	Date

Sample Receipt Check List Logged by: HH (initials)

Ceres ID: 19262	Date/Time: 3/11/25 11:40
Client Project ID: ASC 1123	Received Temp: 0.0 °C Acceptable: (Y) / N
Chain of Custody Relinquished by signed?	(Y) / N
Chain of Custody Received by signed?	(Y) / N
Custody Seals? Present?	Y / N
Intact?	Y / N
NA:	(NA)
Unlabeled / Illegible Samples	Y / (N)
Proper Containers:	(Y) / N
Preservation Acceptable (Chemical or Temperature)?	(Y) / N
Drinking Water, Sodium Thiosulfate present?	(Y) / N / NA
Residual Cl?	Y / (N) / NA
Aqueous sample pH: 7.7	NA
List COC discrepancies: HH 3/11/25	
List Damaged Samples: HH 3/11/25	

Section VII: Qualifiers/Abbreviations

J	Concentration found below the lower quantitation limit but greater than zero.
B	Analyte present in the associated Method Blank.
E	Concentration found exceeds the Calibration range of the HRGC/HRMS.
D	This analyte concentration was calculated from a dilution.
X	The concentration found is the estimated maximum possible concentration due to chlorinated diphenyl ethers present in the sample.
H	Recovery limits exceeded. See cover letter.
*****	Results taken from dilution.
I	Interference. See cover letter.
Conc.	Concentration Found
DL	Calculated Detection Limit
ND	Non-Detect
% Rec.	Percent Recovery

March 31, 2025 Service Request No:K2502722

Darrell Auvil
Apex Laboratories
6700 SW Sandburg St.
Tigard, OR 97223

Laboratory Results for: A5C1123

Dear Darrell,

Enclosed are the results of the sample(s) submitted to our laboratory March 14, 2025
For your reference, these analyses have been assigned our service request number **K2502722.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3260. You may also contact me via email at Luke.Rahn@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Luke Rahn
Project Manager

ADDRESS 1317 S. 13th Avenue, Kelso, WA 98626
PHONE +1 360 577 7222 | FAX +1 360 636 1068
ALS Group USA, Corp.
dba ALS Environmental

Narrative Documents

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

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Client: Apex Laboratories
Project: A5C1123
Sample Matrix: Water

Service Request: K2502722
Date Received: 03/14/2025

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

Two water samples were received for analysis at ALS Environmental on 03/14/2025. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

General Chemistry:

No significant anomalies were noted with this analysis.

Approved by Date 03/31/2025

SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: T1-GW-58			Lab ID: K2502722-001			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Carbon, Total Organic (TOC)	11.7		0.10	0.50	mg/L	SM 5310 B

CLIENT ID: T1-GW-70			Lab ID: K2502722-002			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Carbon, Total Organic (TOC)	3.00		0.10	0.50	mg/L	SM 5310 B

Sample Receipt Information

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

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Client: Apex Laboratories **Service Request:**K2502722

Project: A5C1123

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
K2502722-001	T1-GW-58	3/7/2025	0958
K2502722-002	T1-GW-70	3/7/2025	1328

SUBCONTRACT ORDER

Apex Laboratories

A5C1123

VN2502722

SENDING LABORATORY:

Apex Laboratories
6700 S.W. Sandburg Street
Tigard, OR 97223
Phone: (503) 718-2323
Fax: (503) 336-0745
Project Manager: Darrell Auvil

RECEIVING LABORATORY:

ALS Group USA - Kelso
1317 S 13th Avenue
Kelso, WA 98626
Phone :(360) 577-7222
Fax: (360) 636-1068

Sample Name: T1-GW-58 **Sampled: 03/07/25 09:58** (A5C1123-01)

Analysis	Due	Expires	Comments
Total Organic Carbon - H2O (5310C)	03/20/25 17:00	04/04/25 09:58	
Containers Supplied:			
(E)250 mL Poly - Sulfuric (H2SO4)			

Sample Name: T1-GW-70 **Sampled: 03/07/25 13:28** (A5C1123-02)

Analysis	Due	Expires	Comments
Total Organic Carbon - H2O (5310C)	03/20/25 17:00	04/04/25 13:28	
Containers Supplied:			
(E)250 mL Poly - Sulfuric (H2SO4)			

Standard TAT

Released By	Date	Received By	Date
[illegible]	3/14/25 1106	M. Mulligan	3/14/25 1106
M. Mulligan	3/14/25 1330	[illegible]	03 14 25 1330

Cooler Receipt and Preservation Form

PM LH

Client APEX Service Request K25 09722

Received: 03 14 25 Opened: 03 14 25 By: AO Unloaded: 03 14 25 By: AO

1. Samples were received via? *USPS* *Fed Ex* *UPS* *DHL* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) *Cooler* *Box* *Envelope* *Other* _____ *NA*
3. Were custody seals on coolers? NA Y N If yes, how many and where? _____
   If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Temp Blank	Sample Temp	IR Gun	Cooler #/COC ID (NA)	Out of temp Indicate with "X"	PM Notified If out of temp	Tracking Number (NA)	Filed
2.4 →		IR02					
3.8 →		1					
—	3.0						

4. Was a Temperature Blank present in cooler? NA Y N If yes, notate the temperature in the appropriate column below:
   If no, take the temperature of a representative sample bottle contained within the cooler; notate in the column "Sample Temp":
5. Were samples received within the method specified temperature ranges? NA Y N
   If no, were they received on ice and same day as collected? If not, notate the cooler # below and notify the PM. NA Y N

If applicable, tissue samples were received: *Frozen* *Partially Thawed* *Thawed*

6. Packing material: *Inserts* *Baggies* *Bubble Wrap* *Gel Packs* *Wet Ice* *Dry Ice* *Sleeves* _____
7. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
8. Were samples received in good condition (unbroken) NA Y N
9. Were all sample labels complete (ie, analysis, preservation, etc.)? NA Y N
10. Did all sample labels and tags agree with custody papers? NA Y N
11. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
12. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* NA Y N
13. Were VOA vials received without headspace? *Indicate in the table below.* NA Y N
14. Was C12/Res negative? NA Y N
15. Were samples received within method specified time limit? If not, notate the error below and notify the PM. NA Y N
16. Were 100mL sterile microbiology bottles filled exactly to the 100mL mark? NA Y N Underfilled Overfilled

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count Bottle Type	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, Resolutions: _____

Q:\ENVIRONMENTAL\1 SOP & Policy Statements\SMO\CRF Update 2025-02-28.docx Updated: BJD 2/28/25

Miscellaneous Forms

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Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated value.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.
H	The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

#	The control limit criteria is not applicable.
J	The result is an estimated value.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.
Q	See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimated value over the calibration range.
J	The result is an estimated value between the MDL and the MRL.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses

Agency	Web Site	Number
Alaska DEH	http://dec.alaska.gov/eh/lab/cs/csapproval.htm	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L16-58-R4
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	http://health.hawaii.gov/	-
ISO 17025	http://www.pjlabs.com/	L16-57
Louisiana DEQ	http://www.deq.louisiana.gov/page/la-lab-accreditation	03016
Maine DHS	http://www.maine.gov/dhhs/	WA01276
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/enforcement/oqa.html	WA005
New York - DOH	https://www.wadsworth.org/regulatory/elap	12060
North Carolina DEQ	https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/EnvironmentalLabCertification/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wyoming (EPA Region 8)	https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water-	-
Kelso Laboratory Website	[illegible]	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.
Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/anlayte is offered by that state.

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client:	Apex Laboratories	**Service Request:**	K2502722
Project:	A5C1123/		

Sample Name:	T1-GW-58	**Date Collected:**	03/7/25
Lab Code:	K2502722-001	**Date Received:**	03/14/25
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
SM 5310 B		MSPECHT

Sample Name:	T1-GW-70	**Date Collected:**	03/7/25
Lab Code:	K2502722-002	**Date Received:**	03/14/25
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
SM 5310 B		MSPECHT

Sample Results

ALS Environmental—Kelso Laboratory
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General Chemistry

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Client:	Apex Laboratories	**Service Request:**	K2502722
Project:	A5C1123	**Date Collected:**	03/07/25 09:58
Sample Matrix:	Water	**Date Received:**	03/14/25 13:30
Sample Name:	T1-GW-58	**Basis:**	NA
Lab Code:	K2502722-001		

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 B	**11.7**	mg/L	0.50	0.10	1	03/27/25 14:00	

Analytical Report

Client:	Apex Laboratories	**Service Request:**	K2502722
Project:	A5C1123	**Date Collected:**	03/07/25 13:28
Sample Matrix:	Water	**Date Received:**	03/14/25 13:30
Sample Name:	T1-GW-70	**Basis:**	NA
Lab Code:	K2502722-002		

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 B	**3.00**	mg/L	0.50	0.10	1	03/27/25 14:00	

QC Summary Forms

ALS Environmental—Kelso Laboratory
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General Chemistry

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Client:	Apex Laboratories	**Service Request:**	K2502722
Project:	A5C1123	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	K2502722-MB		

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 B	ND U	mg/L	0.50	0.10	1	03/27/25 14:00	

Client:	Apex Laboratories	**Service Request:**	K2502722
Project:	A5C1123	**Date Analyzed:**	03/27/25
Sample Matrix:	Water	**Date Extracted:**	NA

Lab Control Sample Summary
Carbon, Total Organic (TOC)

Analysis Method:	SM 5310 B	**Units:**	mg/L
Prep Method:	None	**Basis:**	NA
		Analysis Lot:	874185

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K2502722-LCS	23.7	25.0	95	85-115

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

ANALYTICAL REPORT

AMENDED REPORT

Thursday, May 29, 2025

Steve Misner
Apex Companies, LLC
15618 SW 72nd Ave
Tigard, OR 97224

RE: A5B1776 - Willamette Cove GW Source Control - 1056-17

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 A5B1776, which was received by the laboratory on 2/28/2025 at 7:51:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: DAuvil@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 3.4 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

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager

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

ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW Source Control**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5B1776 - 05 29 25 1559**

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
T3-GW-34	A5B1776-01	Water	02/27/25 13:30	02/28/25 07:51
T3-GW-46	A5B1776-02	Water	02/27/25 16:30	02/28/25 07:51

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Darrell Auvil, Client Services Manager

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

ANALYTICAL REPORT

AMENDED REPORT

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Tigard, OR 97224	Project Manager: **Steve Misner**	**A5B1776 - 05 29 25 1559**

ANALYTICAL CASE NARRATIVE

A5B1776 **Apex Laboratories**

Amended Report Revision 1: This report supersedes all previous reports.

Reporting the Detection Limits (DL)-

The final report has been amended to report both PAH data by EPA 8270E and Chlorinated Pesticides by EPA 8081B to the detection limits (DL).

Darrell Auvil
Client Services Manager
5/29/2025

Apex Laboratories

Darrell Auvil, Client Services Manager

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15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5B1776 - 05 29 25 1559**

ANALYTICAL SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
T3-GW-34 (A5B1776-01RE1)				**Matrix: Water**		**Batch: 25C0330**		**C-05, DCNT**
2,4'-DDD	ND	0.0225	0.0225	ug/L	1	03/11/25 15:22	EPA 8081B	
2,4'-DDE	ND	0.0112	0.0225	ug/L	1	03/11/25 15:22	EPA 8081B	
2,4'-DDT	ND	0.0112	0.0225	ug/L	1	03/11/25 15:22	EPA 8081B	
4,4'-DDD	ND	0.0112	0.0225	ug/L	1	03/11/25 15:22	EPA 8081B	
4,4'-DDE	ND	0.0112	0.0225	ug/L	1	03/11/25 15:22	EPA 8081B	
4,4'-DDT	ND	0.0112	0.0225	ug/L	1	03/11/25 15:22	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr)		*Recovery:*	*56 %*	*Limits: 25-140 %*	*1*	*03/11/25 15:22*	*EPA 8081B*	
Decachlorobiphenyl (Surr)			*87 %*	*30-135 %*	*1*	*03/11/25 15:22*	*EPA 8081B*	
T3-GW-46 (A5B1776-02RE1)				**Matrix: Water**		**Batch: 25C0330**		**C-05, DCNT**
2,4'-DDD	ND	0.0108	0.0215	ug/L	1	03/11/25 15:39	EPA 8081B	
2,4'-DDE	ND	0.0108	0.0215	ug/L	1	03/11/25 15:39	EPA 8081B	
2,4'-DDT	ND	0.0108	0.0215	ug/L	1	03/11/25 15:39	EPA 8081B	
4,4'-DDD	ND	0.0108	0.0215	ug/L	1	03/11/25 15:39	EPA 8081B	
4,4'-DDE	ND	0.0108	0.0215	ug/L	1	03/11/25 15:39	EPA 8081B	
4,4'-DDT	ND	0.0108	0.0215	ug/L	1	03/11/25 15:39	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr)		*Recovery:*	*62 %*	*Limits: 25-140 %*	*1*	*03/11/25 15:39*	*EPA 8081B*	
Decachlorobiphenyl (Surr)			*89 %*	*30-135 %*	*1*	*03/11/25 15:39*	*EPA 8081B*	

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ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: Willamette Cove GW Source Control	
15618 SW 72nd Ave	Project Number: 1056-17	Report ID:
Tigard, OR 97224	Project Manager: Steve Misner	A5B1776 - 05 29 25 1559

ANALYTICAL SAMPLE RESULTS

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
T3-GW-34 (A5B1776-01)				**Matrix: Water**		**Batch: 25C0168**		**DCNT**
Acenaphthene	**6.30**	0.0170	0.0340	ug/L	1	03/05/25 17:16	EPA 8270E LVI	
Acenaphthylene	ND	0.340	0.340	ug/L	1	03/05/25 17:16	EPA 8270E LVI	Q-30, R-02
Anthracene	**0.373**	0.0170	0.0340	ug/L	1	03/05/25 17:16	EPA 8270E LVI	
Benz(a)anthracene	**0.120**	0.00849	0.0170	ug/L	1	03/05/25 17:16	EPA 8270E LVI	
Benzo(a)pyrene	**0.174**	0.00849	0.0170	ug/L	1	03/05/25 17:16	EPA 8270E LVI	
Benzo(b)fluoranthene	**0.142**	0.00849	0.0170	ug/L	1	03/05/25 17:16	EPA 8270E LVI	
Benzo(k)fluoranthene	**0.0399**	0.00849	0.0170	ug/L	1	03/05/25 17:16	EPA 8270E LVI	**M-05**
Benzo(g,h,i)perylene	**0.121**	0.0170	0.0340	ug/L	1	03/05/25 17:16	EPA 8270E LVI	
Chrysene	**0.154**	0.00849	0.0170	ug/L	1	03/05/25 17:16	EPA 8270E LVI	
Dibenz(a,h)anthracene	**0.0153**	0.00849	0.0170	ug/L	1	03/05/25 17:16	EPA 8270E LVI	**J**
Fluoranthene	**0.952**	0.0170	0.0340	ug/L	1	03/05/25 17:16	EPA 8270E LVI	
Fluorene	**2.39**	0.0170	0.0340	ug/L	1	03/05/25 17:16	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	**0.105**	0.00849	0.0170	ug/L	1	03/05/25 17:16	EPA 8270E LVI	
1-Methylnaphthalene	**0.403**	0.0340	0.0679	ug/L	1	03/05/25 17:16	EPA 8270E LVI	
2-Methylnaphthalene	**0.410**	0.0340	0.0679	ug/L	1	03/05/25 17:16	EPA 8270E LVI	
Naphthalene	**2.39**	0.0340	0.0679	ug/L	1	03/05/25 17:16	EPA 8270E LVI	
Phenanthrene	**2.17**	0.0340	0.0679	ug/L	1	03/05/25 17:16	EPA 8270E LVI	
Pyrene	**1.17**	0.0170	0.0340	ug/L	1	03/05/25 17:16	EPA 8270E LVI	
Dibenzofuran	**0.0764**	0.0170	0.0340	ug/L	1	03/05/25 17:16	EPA 8270E LVI	
Surrogate: Acenaphthylene-d8 (Surr)		*Recovery:*	*84 %*	*Limits:*	*78-134 %*	*03/05/25 17:16*	*EPA 8270E LVI*	
Benzo(a)pyrene-d12 (Surr)			*101 %*		*80-132 %*	*03/05/25 17:16*	*EPA 8270E LVI*	
T3-GW-46 (A5B1776-02)				**Matrix: Water**		**Batch: 25C0168**		**DCNT**
Acenaphthene	**0.707**	0.0210	0.0420	ug/L	1	03/05/25 17:52	EPA 8270E LVI	
Acenaphthylene	ND	0.0918	0.0918	ug/L	1	03/05/25 17:52	EPA 8270E LVI	Q-30, R-02
Anthracene	**0.140**	0.0210	0.0420	ug/L	1	03/05/25 17:52	EPA 8270E LVI	
Benz(a)anthracene	**0.0503**	0.0105	0.0210	ug/L	1	03/05/25 17:52	EPA 8270E LVI	
Benzo(a)pyrene	**0.0598**	0.0105	0.0210	ug/L	1	03/05/25 17:52	EPA 8270E LVI	
Benzo(b)fluoranthene	**0.0430**	0.0105	0.0210	ug/L	1	03/05/25 17:52	EPA 8270E LVI	
Benzo(k)fluoranthene	**0.0194**	0.0105	0.0210	ug/L	1	03/05/25 17:52	EPA 8270E LVI	**J**
Benzo(g,h,i)perylene	**0.0414**	0.0210	0.0420	ug/L	1	03/05/25 17:52	EPA 8270E LVI	**J**
Chrysene	**0.0614**	0.0105	0.0210	ug/L	1	03/05/25 17:52	EPA 8270E LVI	
Dibenz(a,h)anthracene	ND	0.0105	0.0210	ug/L	1	03/05/25 17:52	EPA 8270E LVI	

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ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW Source Control**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5B1776 - 05 29 25 1559**

ANALYTICAL SAMPLE RESULTS

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
T3-GW-46 (A5B1776-02)				**Matrix: Water**		**Batch: 25C0168**		**DCNT**
Fluoranthene	**0.194**	0.0210	0.0420	ug/L	1	03/05/25 17:52	EPA 8270E LVI	
Fluorene	**0.291**	0.0210	0.0420	ug/L	1	03/05/25 17:52	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	**0.0336**	0.0105	0.0210	ug/L	1	03/05/25 17:52	EPA 8270E LVI	
1-Methylnaphthalene	**0.123**	0.0420	0.0839	ug/L	1	03/05/25 17:52	EPA 8270E LVI	
2-Methylnaphthalene	**0.127**	0.0420	0.0839	ug/L	1	03/05/25 17:52	EPA 8270E LVI	
Naphthalene	**0.524**	0.0420	0.0839	ug/L	1	03/05/25 17:52	EPA 8270E LVI	
Phenanthrene	**0.592**	0.0420	0.0839	ug/L	1	03/05/25 17:52	EPA 8270E LVI	
Pyrene	**0.235**	0.0210	0.0420	ug/L	1	03/05/25 17:52	EPA 8270E LVI	
Dibenzofuran	**0.0294**	0.0210	0.0420	ug/L	1	03/05/25 17:52	EPA 8270E LVI	**J**
Surrogate: Acenaphthylene-d8 (Surr)		*Recovery:*	*83 %*	*Limits:*	*78-134 %*	*03/05/25 17:52*	*EPA 8270E LVI*	
Benzo(a)pyrene-d12 (Surr)			*101 %*		*80-132 %*	*03/05/25 17:52*	*EPA 8270E LVI*	

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ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
T3-GW-34 (A5B1776-01)				**Matrix: Water**				
Batch: 25C0672								
Arsenic	**4.11**	---	1.00	ug/L	1	03/19/25 05:16	EPA 6020B	
Iron	**30600**	---	50.0	ug/L	1	03/19/25 05:16	EPA 6020B	
Manganese	**1490**	---	1.00	ug/L	1	03/19/25 05:16	EPA 6020B	
T3-GW-46 (A5B1776-02)				**Matrix: Water**				
Batch: 25C0672								
Arsenic	**14.2**	---	1.00	ug/L	1	03/19/25 05:21	EPA 6020B	
T3-GW-46 (A5B1776-02RE1)				**Matrix: Water**				
Batch: 25C0672								
Iron	**75600**	---	500	ug/L	10	03/19/25 17:32	EPA 6020B	
Manganese	**5640**	---	10.0	ug/L	10	03/19/25 17:32	EPA 6020B	

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ANALYTICAL SAMPLE RESULTS

Dissolved Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
T3-GW-34 (A5B1776-01)				**Matrix: Water**				
Batch: 25C0640								
Arsenic	**2.06**	---	1.00	ug/L	1	03/18/25 01:15	EPA 6020B (Diss)	
Iron	**27900**	---	50.0	ug/L	1	03/18/25 01:15	EPA 6020B (Diss)	
Manganese	**1540**	---	1.00	ug/L	1	03/18/25 01:15	EPA 6020B (Diss)	
T3-GW-46 (A5B1776-02)				**Matrix: Water**				
Batch: 25C0640								
Arsenic	**12.9**	---	1.00	ug/L	1	03/18/25 01:21	EPA 6020B (Diss)	
T3-GW-46 (A5B1776-02RE1)				**Matrix: Water**				
Batch: 25C0640								
Iron	**75900**	---	500	ug/L	10	03/19/25 03:26	EPA 6020B (Diss)	
Manganese	**6080**	---	10.0	ug/L	10	03/19/25 03:26	EPA 6020B (Diss)	

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ANALYTICAL SAMPLE RESULTS

Anions by Ion Chromatography

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
T3-GW-34 (A5B1776-01)				**Matrix: Water**				
Batch: 25B0962								
Nitrate-Nitrogen	ND	---	0.250	mg/L	1	02/28/25 19:58	EPA 300.0	
Sulfate	**8.69**	---	1.00	mg/L	1	02/28/25 19:58	EPA 300.0	
T3-GW-46 (A5B1776-02)				**Matrix: Water**				
Batch: 25B0962								
Nitrate-Nitrogen	ND	---	0.250	mg/L	1	02/28/25 20:19	EPA 300.0	
Sulfate	ND	---	1.00	mg/L	1	02/28/25 20:19	EPA 300.0	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25C0330 - EPA 3510C (Neutral pH)/3640A (GPC)												**Water**
Blank (25C0330-BLK1)			Prepared: 03/06/25 11:42		Analyzed: 03/11/25 14:30							**C-05**
EPA 8081B												
2,4'-DDD	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
2,4'-DDE	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
2,4'-DDT	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
4,4'-DDD	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
4,4'-DDE	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
4,4'-DDT	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 44 %*		*Limits: 25-140 %*				*Dilution: 1x*			
Decachlorobiphenyl (Surr)			*83 %*		*30-135 %*				*"*			
LCS (25C0330-BS1)			Prepared: 03/06/25 11:42		Analyzed: 03/11/25 14:47							**C-05**
EPA 8081B												
2,4'-DDD	0.553	0.0100	0.0200	ug/L	1	0.500	---	111	66-120%	---	---	
2,4'-DDE	0.455	0.0100	0.0200	ug/L	1	0.500	---	91	55-120%	---	---	
2,4'-DDT	0.602	0.0100	0.0200	ug/L	1	0.500	---	120	62-127%	---	---	
4,4'-DDD	0.553	0.0100	0.0200	ug/L	1	0.500	---	111	56-143%	---	---	
4,4'-DDE	0.460	0.0100	0.0200	ug/L	1	0.500	---	92	57-135%	---	---	
4,4'-DDT	0.603	0.0100	0.0200	ug/L	1	0.500	---	121	51-143%	---	---	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 39 %*		*Limits: 25-140 %*				*Dilution: 1x*			
Decachlorobiphenyl (Surr)			*75 %*		*30-135 %*				*"*			
LCS Dup (25C0330-BSD1)			Prepared: 03/06/25 11:42		Analyzed: 03/11/25 15:05							**C-05, Q-19**
EPA 8081B												
2,4'-DDD	0.569	0.0100	0.0200	ug/L	1	0.500	---	114	66-120%	3	30%	
2,4'-DDE	0.478	0.0100	0.0200	ug/L	1	0.500	---	96	55-120%	5	30%	
2,4'-DDT	0.622	0.0100	0.0200	ug/L	1	0.500	---	124	62-127%	3	30%	
4,4'-DDD	0.573	0.0100	0.0200	ug/L	1	0.500	---	115	56-143%	3	30%	
4,4'-DDE	0.498	0.0100	0.0200	ug/L	1	0.500	---	100	57-135%	8	30%	
4,4'-DDT	0.623	0.0100	0.0200	ug/L	1	0.500	---	125	51-143%	3	30%	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 45 %*		*Limits: 25-140 %*				*Dilution: 1x*			
Decachlorobiphenyl (Surr)			*83 %*		*30-135 %*				*"*			

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Tigard, OR 97224	Project Manager: **Steve Misner**	**A5B1776 - 05 29 25 1559**

QUALITY CONTROL (QC) SAMPLE RESULTS

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25C0168 - EPA 3511 (Bottle Extraction)								**Water**				
Blank (25C0168-BLK1)			Prepared: 03/05/25 09:42 Analyzed: 03/05/25 14:21									
EPA 8270E LVI												
Acenaphthene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Acenaphthylene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	Q-30
Anthracene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Benz(a)anthracene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Chrysene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Fluoranthene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Fluorene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
1-Methylnaphthalene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
2-Methylnaphthalene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
Phenanthrene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
Pyrene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Carbazole	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Dibenzofuran	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Surr: Acenaphthylene-d8 (Surr)			*Recovery: 81 %*		*Limits: 78-134 %*			*Dilution: 1x*				
Benzo(a)pyrene-d12 (Surr)			*99 %*		*80-132 %*			*"*				
LCS (25C0168-BS1)			Prepared: 03/05/25 09:42 Analyzed: 03/05/25 14:56									
EPA 8270E LVI												
Acenaphthene	1.54	0.0160	0.0320	ug/L	1	1.60	---	96	80-120%	---	---	
Acenaphthylene	1.36	0.0160	0.0320	ug/L	1	1.60	---	85	80-124%	---	---	Q-30
Anthracene	1.43	0.0160	0.0320	ug/L	1	1.60	---	90	80-123%	---	---	
Benz(a)anthracene	1.50	0.00800	0.0160	ug/L	1	1.60	---	94	80-122%	---	---	
Benzo(a)pyrene	1.60	0.00800	0.0160	ug/L	1	1.60	---	100	80-129%	---	---	
Benzo(b)fluoranthene	1.49	0.00800	0.0160	ug/L	1	1.60	---	93	80-124%	---	---	
Benzo(k)fluoranthene	1.53	0.00800	0.0160	ug/L	1	1.60	---	96	80-125%	---	---	
Benzo(g,h,i)perylene	1.40	0.0160	0.0320	ug/L	1	1.60	---	88	80-120%	---	---	

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Darrell Auvil, Client Services Manager

Apex Laboratories, LLC

6700 S.W. Sandburg Street
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503-718-2323
ORELAP ID: **OR100062**

Apex Companies, LLC	Project: **Willamette Cove GW Source Control**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5B1776 - 05 29 25 1559**

QUALITY CONTROL (QC) SAMPLE RESULTS

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25C0168 - EPA 3511 (Bottle Extraction)							**Water**					
LCS (25C0168-BS1)			Prepared: 03/05/25 09:42	Analyzed: 03/05/25 14:56								
Chrysene	1.41	0.00800	0.0160	ug/L	1	1.60	---	88	80-120%	---	---	
Dibenz(a,h)anthracene	1.43	0.00800	0.0160	ug/L	1	1.60	---	90	80-120%	---	---	
Fluoranthene	1.39	0.0160	0.0320	ug/L	1	1.60	---	87	80-126%	---	---	
Fluorene	1.63	0.0160	0.0320	ug/L	1	1.60	---	102	77-127%	---	---	
Indeno(1,2,3-cd)pyrene	1.38	0.00800	0.0160	ug/L	1	1.60	---	86	80-121%	---	---	
1-Methylnaphthalene	1.36	0.0320	0.0640	ug/L	1	1.60	---	85	53-148%	---	---	
2-Methylnaphthalene	1.37	0.0320	0.0640	ug/L	1	1.60	---	85	48-150%	---	---	
Naphthalene	1.53	0.0320	0.0640	ug/L	1	1.60	---	96	78-120%	---	---	
Phenanthrene	1.42	0.0320	0.0640	ug/L	1	1.60	---	89	80-120%	---	---	
Pyrene	1.37	0.0160	0.0320	ug/L	1	1.60	---	86	80-125%	---	---	
Carbazole	1.67	0.0160	0.0320	ug/L	1	1.60	---	104	65-141%	---	---	
Dibenzofuran	1.41	0.0160	0.0320	ug/L	1	1.60	---	88	76-121%	---	---	
Surr: Acenaphthylene-d8 (Surr)			*Recovery: 80 %*	*Limits: 78-134 %*			*Dilution: 1x*					
Benzo(a)pyrene-d12 (Surr)			*98 %*	*80-132 %*			*"*					
LCS Dup (25C0168-BSD1)			Prepared: 03/05/25 09:42	Analyzed: 03/05/25 15:31								**Q-19**
EPA 8270E LVI												
Acenaphthene	1.43	0.0160	0.0320	ug/L	1	1.60	---	89	80-120%	8	30%	
Acenaphthylene	1.24	0.0160	0.0320	ug/L	1	1.60	---	**78**	**80-124%**	9	30%	Q-30
Anthracene	1.32	0.0160	0.0320	ug/L	1	1.60	---	83	80-123%	8	30%	
Benz(a)anthracene	1.38	0.00800	0.0160	ug/L	1	1.60	---	86	80-122%	8	30%	
Benzo(a)pyrene	1.47	0.00800	0.0160	ug/L	1	1.60	---	92	80-129%	8	30%	
Benzo(b)fluoranthene	1.41	0.00800	0.0160	ug/L	1	1.60	---	88	80-124%	6	30%	
Benzo(k)fluoranthene	1.41	0.00800	0.0160	ug/L	1	1.60	---	88	80-125%	8	30%	
Benzo(g,h,i)perylene	1.30	0.0160	0.0320	ug/L	1	1.60	---	82	80-120%	7	30%	
Chrysene	1.29	0.00800	0.0160	ug/L	1	1.60	---	81	80-120%	9	30%	
Dibenz(a,h)anthracene	1.33	0.00800	0.0160	ug/L	1	1.60	---	83	80-120%	8	30%	
Fluoranthene	1.30	0.0160	0.0320	ug/L	1	1.60	---	81	80-126%	7	30%	
Fluorene	1.51	0.0160	0.0320	ug/L	1	1.60	---	95	77-127%	8	30%	
Indeno(1,2,3-cd)pyrene	1.28	0.00800	0.0160	ug/L	1	1.60	---	80	80-121%	7	30%	
1-Methylnaphthalene	1.32	0.0320	0.0640	ug/L	1	1.60	---	82	53-148%	3	30%	
2-Methylnaphthalene	1.29	0.0320	0.0640	ug/L	1	1.60	---	81	48-150%	5	30%	
Naphthalene	1.43	0.0320	0.0640	ug/L	1	1.60	---	89	78-120%	7	30%	
Phenanthrene	1.32	0.0320	0.0640	ug/L	1	1.60	---	83	80-120%	7	30%	

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ORELAP ID: **OR100062**

Apex Companies, LLC	Project: **Willamette Cove GW Source Control**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5B1776 - 05 29 25 1559**

QUALITY CONTROL (QC) SAMPLE RESULTS

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25C0168 - EPA 3511 (Bottle Extraction)							**Water**					
LCS Dup (25C0168-BSD1)			Prepared: 03/05/25 09:42		Analyzed: 03/05/25 15:31							**Q-19**
Pyrene	1.27	0.0160	0.0320	ug/L	1	1.60	---	80	80-125%	7	30%	
Carbazole	1.53	0.0160	0.0320	ug/L	1	1.60	---	96	65-141%	9	30%	
Dibenzofuran	1.31	0.0160	0.0320	ug/L	1	1.60	---	82	76-121%	8	30%	
Surr: Acenaphthylene-d8 (Surr)			*Recovery: 78 %*		*Limits: 78-134 %*				*Dilution: 1x*			
Benzo(a)pyrene-d12 (Surr)			*98 %*		*80-132 %*				*"*			

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15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5B1776 - 05 29 25 1559**

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 25C0672 - EPA 3015A									Water			
Blank (25C0672-BLK1)			Prepared: 03/18/25 09:16		Analyzed: 03/19/25 03:37							
EPA 6020B												
Arsenic	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Iron	ND	---	50.0	ug/L	1	---	---	---	---	---	---	
Manganese	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
LCS (25C0672-BS1)			Prepared: 03/18/25 09:16		Analyzed: 03/19/25 03:43							
EPA 6020B												
Arsenic	55.1	---	1.00	ug/L	1	55.6	---	99	80-120%	---	---	
Iron	5620	---	50.0	ug/L	1	5560	---	101	80-120%	---	---	
Manganese	55.3	---	1.00	ug/L	1	55.6	---	100	80-120%	---	---	
Duplicate (25C0672-DUP1)			Prepared: 03/18/25 09:16		Analyzed: 03/19/25 03:53							
QC Source Sample: Non-SDG (A5B1438-04)												
Arsenic	ND	---	1.00	ug/L	1	---	0.532	---	---	***	**20%**	
Iron	**1170**	---	50.0	ug/L	1	---	1250	---	---	7	20%	
Manganese	**37.1**	---	1.00	ug/L	1	---	37.2	---	---	0.3	20%	
Matrix Spike (25C0672-MS1)			Prepared: 03/18/25 09:16		Analyzed: 03/19/25 03:59							
QC Source Sample: Non-SDG (A5B1438-04)												
EPA 6020B												
Arsenic	55.9	---	1.00	ug/L	1	55.6	0.532	100	75-125%	---	---	
Iron	7230	---	50.0	ug/L	1	5560	1250	108	75-125%	---	---	
Manganese	94.8	---	1.00	ug/L	1	55.6	37.2	104	75-125%	---	---	

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Apex Companies, LLC	Project: **Willamette Cove GW Source Control**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5B1776 - 05 29 25 1559**

QUALITY CONTROL (QC) SAMPLE RESULTS

Dissolved 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 25C0640 - Matrix Matched Direct Inject								**Water**				
Blank (25C0640-BLK1)			Prepared: 03/17/25 10:33		Analyzed: 03/18/25 00:26							
EPA 6020B (Diss)												
Arsenic	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Iron	ND	---	50.0	ug/L	1	---	---	---	---	---	---	
Manganese	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
LCS (25C0640-BS1)			Prepared: 03/17/25 10:33		Analyzed: 03/18/25 00:32							
EPA 6020B (Diss)												
Arsenic	54.0	---	1.00	ug/L	1	55.6	---	97	80-120%	---	---	
Iron	5830	---	50.0	ug/L	1	5560	---	105	80-120%	---	---	
Manganese	56.0	---	1.00	ug/L	1	55.6	---	101	80-120%	---	---	
Duplicate (25C0640-DUP1)			Prepared: 03/17/25 10:33		Analyzed: 03/18/25 00:54							
QC Source Sample: Non-SDG (A5B1416-01)												
Arsenic	ND	---	1.00	ug/L	1	---	0.556	---	---	***	20%	
Iron	**53.7**	---	50.0	ug/L	1	---	81.8	---	---	**41**	**20%**	Q-05
Manganese	**3.93**	---	1.00	ug/L	1	---	4.00	---	---	2	20%	
Matrix Spike (25C0640-MS1)			Prepared: 03/17/25 10:33		Analyzed: 03/18/25 00:59							
QC Source Sample: Non-SDG (A5B1416-01)												
EPA 6020B (Diss)												
Arsenic	53.7	---	1.00	ug/L	1	55.6	0.556	96	75-125%	---	---	
Iron	6420	---	50.0	ug/L	1	5560	81.8	114	75-125%	---	---	
Manganese	58.7	---	1.00	ug/L	1	55.6	4.00	99	75-125%	---	---	

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ORELAP ID: **OR100062**

Apex Companies, LLC	Project: **Willamette Cove GW Source Control**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5B1776 - 05 29 25 1559**

QUALITY CONTROL (QC) SAMPLE RESULTS

Anions by Ion Chromatography

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25B0962 - Method Prep: Aq							**Water**					
Blank (25B0962-BLK1)			Prepared: 02/28/25 17:45		Analyzed: 02/28/25 19:15							
EPA 300.0												
Nitrate-Nitrogen	ND	---	0.250	mg/L	1	---	---	---	---	---	---	
Sulfate	ND	---	1.00	mg/L	1	---	---	---	---	---	---	
LCS (25B0962-BS1)			Prepared: 02/28/25 17:45		Analyzed: 02/28/25 19:36							
EPA 300.0												
Nitrate-Nitrogen	1.98	---	0.250	mg/L	1	2.00	---	99	90-110%	---	---	
Sulfate	7.85	---	1.00	mg/L	1	8.00	---	98	90-110%	---	---	
Duplicate (25B0962-DUP1)			Prepared: 02/28/25 17:45		Analyzed: 02/28/25 23:34							
QC Source Sample: Non-SDG (A5B1755-01)												
Nitrate-Nitrogen	**0.390**	---	0.250	mg/L	1	---	0.390	---	---	0.2	10%	
Sulfate	**25.7**	---	1.00	mg/L	1	---	25.7	---	---	0.1	10%	
Matrix Spike (25B0962-MS1)			Prepared: 02/28/25 17:45		Analyzed: 02/28/25 23:55							
QC Source Sample: Non-SDG (A5B1755-01)												
EPA 300.0												
Nitrate-Nitrogen	2.88	---	0.312	mg/L	1	2.50	0.390	99	87-112%	---	---	
Sulfate	35.5	---	1.25	mg/L	1	10.0	25.7	98	88-115%	---	---	

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ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW Source Control**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5B1776 - 05 29 25 1559**

SAMPLE PREPARATION INFORMATION

Organochlorine Pesticides by EPA 8081B

Prep: EPA 3510C (Neutral pH)/3640A (GPC)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25C0330							
A5B1776-01RE1	Water	EPA 8081B	02/27/25 13:30	03/06/25 11:42	890mL/10mL	1000mL/5mL	2.25
A5B1776-02RE1	Water	EPA 8081B	02/27/25 16:30	03/06/25 11:42	930mL/10mL	1000mL/5mL	2.15

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Prep: EPA 3511 (Bottle Extraction)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25C0168							
A5B1776-01	Water	EPA 8270E LVI	02/27/25 13:30	03/05/25 09:42	117.79mL/5mL	125mL/5mL	1.06
A5B1776-02	Water	EPA 8270E LVI	02/27/25 16:30	03/05/25 09:42	95.34mL/5mL	125mL/5mL	1.31

Total Metals by EPA 6020B (ICPMS)

Prep: EPA 3015A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25C0672							
A5B1776-01	Water	EPA 6020B	02/27/25 13:30	03/18/25 09:16	45mL/50mL	45mL/50mL	1.00
A5B1776-02	Water	EPA 6020B	02/27/25 16:30	03/18/25 09:16	45mL/50mL	45mL/50mL	1.00
A5B1776-02RE1	Water	EPA 6020B	02/27/25 16:30	03/18/25 09:16	45mL/50mL	45mL/50mL	1.00

Dissolved Metals by EPA 6020B (ICPMS)

Prep: Matrix Matched Direct Inject

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25C0640							
A5B1776-01	Water	EPA 6020B (Diss)	02/27/25 13:30	03/17/25 10:33	45mL/50mL	45mL/50mL	1.00
A5B1776-02	Water	EPA 6020B (Diss)	02/27/25 16:30	03/17/25 10:33	45mL/50mL	45mL/50mL	1.00
A5B1776-02RE1	Water	EPA 6020B (Diss)	02/27/25 16:30	03/17/25 10:33	45mL/50mL	45mL/50mL	1.00

Anions by Ion Chromatography

Prep: Method Prep: Aq

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25B0962							
A5B1776-01	Water	EPA 300.0	02/27/25 13:30	02/28/25 17:45	5mL/5mL	5mL/5mL	1.00
A5B1776-02	Water	EPA 300.0	02/27/25 16:30	02/28/25 17:45	5mL/5mL	5mL/5mL	1.00

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ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW Source Control**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5B1776 - 05 29 25 1559**

SAMPLE PREPARATION INFORMATION

Anions by Ion Chromatography

Prep: Method Prep: Aq

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor

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QUALIFIER DEFINITIONS

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

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C-05	Extract has undergone a GPC (Gel-Permeation Chromatography) cleanup per EPA 3640A. Reporting levels may be raised due to dilution necessary for cleanup. Sample Final Volume includes the GPC dilution factor, see the Prep page for details.
DCNT	Sample decanted due to the presence of sediment in water samples, or water in sediment or soil samples. (Note: Decanted aqueous sample bottles are not solvent rinsed.)
J	Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified DL.
M-05	Estimated results. Peak separation for structural isomers is insufficient for accurate quantification.
Q-05	Analyses are not controlled on RPD values from sample and duplicate concentrations that are below 5 times the reporting level.
Q-19	Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis.
Q-30	Recovery for Lab Control Spike (LCS) is below the lower control limit. Data may be biased low.
R-02	The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.

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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)

Validated 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 and Detection Limits: Default Limits

Default Reporting and Detection Limits are based on 100% dry weight with the minimum dilution for the analysis. Reporting and Detection Limits are raised due to moisture content, additional dilutions required for analysis, matrix interferences and in other cases, as necessary.

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).

Apex Laboratories

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Darrell Auvil, Client Services Manager

Apex Laboratories, LLC

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

Apex Companies, LLC	Project:	**Willamette Cove GW Source Control**	
15618 SW 72nd Ave	Project Number:	**1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager:	**Steve Misner**	**A5B1776 - 05 29 25 1559**

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to one half of the Reporting Limit (RL).
Blank results for gravimetric analyses are evaluated to the Reporting Level, not to half of the Reporting Level.
-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.

Apex Laboratories

Darrell Auvil, Client Services Manager

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Decanted Samples:

Soils/Sediments:
Unless TCLP analysis is required or there is notification otherwise for a specific project, all Soil and Sediments containing excess water are decanted prior to analysis in order to provide the most representative sample for analysis.

Water Samples:
Water samples containing solids and sediment may need to be decanted in order to eliminate these particulates from the water extractions. In the case of organics extractions, a solvent rinse of the container will not be performed.

Volatiles Soils (5035s)
Samples that are field preserved by 5035 for volatiles are dry weight corrected using the same dry weight corretion as for normal analyses. In the case of decanted samples, the dry weight may be performed on a decanted sample, while the aliquot for 5035 may not have been treated the same way. If this is a concern, please submit separate containers for dry weight analysis for volatiles can be provided.

All samples decanted in the laboratory are noted in this report with the DCNT qualifier indicating the sample was decanted.

Apex Laboratories

Darrell Auvil, Client Services Manager

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Apex Laboratories, LLC
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ORELAP ID: **OR100062**

ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW Source Control**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5B1776 - 05 29 25 1559**

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

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

Secondary Accreditations

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

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.
Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

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

Apex Laboratories

Darrell Auvil, Client Services Manager

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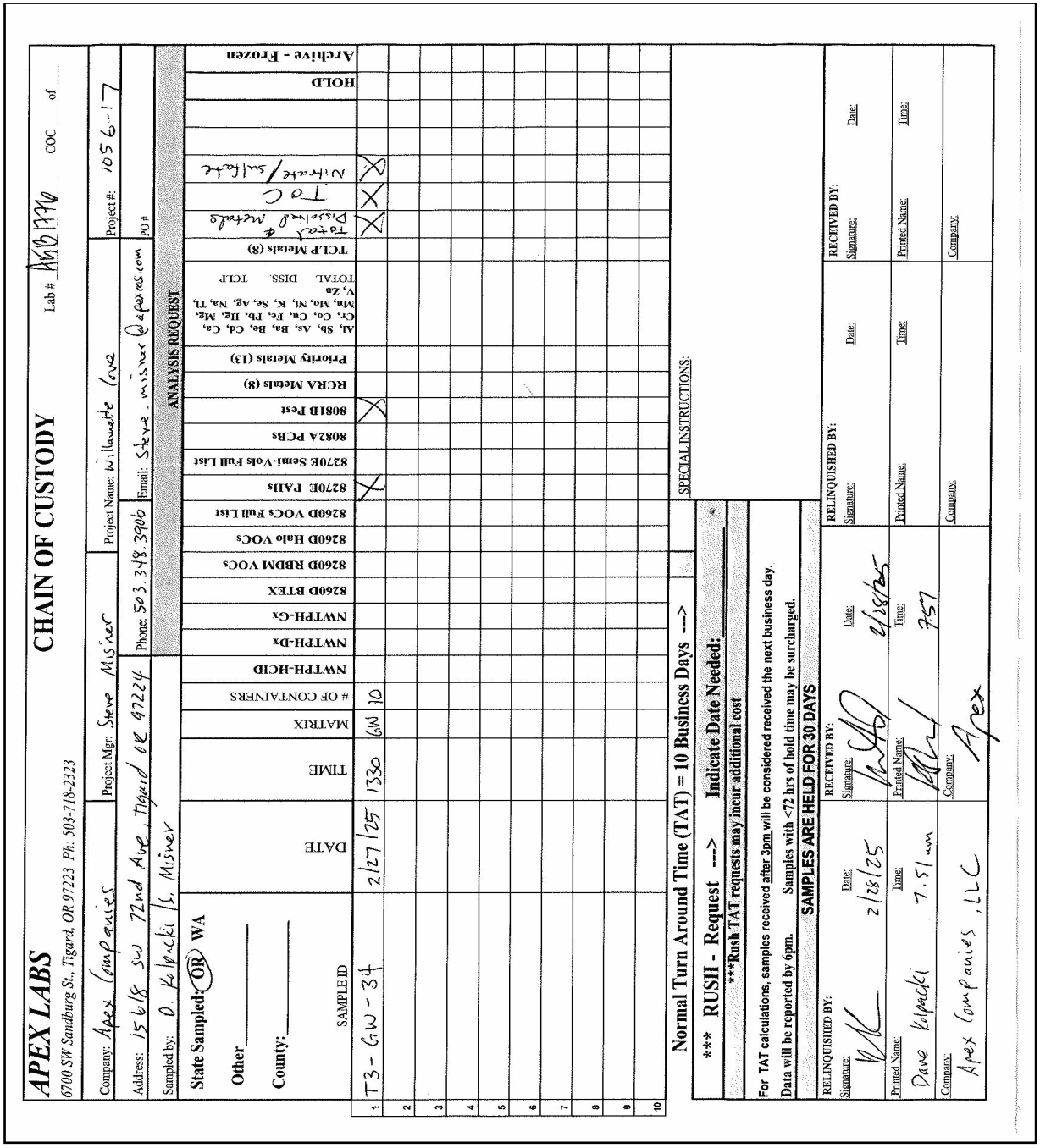
ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW Source Control**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5B1776 - 05 29 25 1559**



APEX LABS — 6700 SW Sandburg St., Tigard, OR 97223 Ph: 503-718-2323

CHAIN OF CUSTODY — Lab # A5B1776 — COC ___ of ___

Company: Apex Companies — Project Mgr: Steve Misner — Project Name: Willamette Cove — Project #: 1056-17

Address: 15618 SW 72nd Ave, Tigard OR 97224 — Phone: 503.348.3906 — Email: steve.misner@apexcos.com — PO #

Sampled by: D. Kirpacki / S. Misner

State Sampled: (OR) WA — Other ____ — County: ____

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID	NWTPH-Dx	NWTPH-Gx	8260D BTEX	8260D RBDM VOCs	8260D Halo VOCs	8260D VOCs Full List	8270E PAHs	8270E Semi-Vols Full List	8082A PCBs	8081B Pest	RCRA Metals (8)	Priority Metals (13)	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Hg, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Tl, V, Zn TOTAL DISS. TCLP	TCLP Metals (8)	Archive / Subset	TOC	Dissolved Metals	HOLD	Archive - Frozen
1 T3-GW-34	2/27/25	1330	GW	10								X			X					X	X	X		
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								

SPECIAL INSTRUCTIONS:

Normal Turn Around Time (TAT) = 10 Business Days --->

***** RUSH - Request ---> Indicate Date Needed:**

*****Rush TAT requests may incur additional cost**

For TAT calculations, samples received after 3pm will be considered received the next business day.
Data will be reported by 6pm. Samples with <72 hrs of hold time may be surcharged.

SAMPLES ARE HELD FOR 30 DAYS

	RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature:		Date: 2/28/25	Date:	Date:
Printed Name:	Dave Kirpacki	Time: 7:51 am	Time:	Time:
Company:	Apex Companies, LLC	Company: Apex	Company:	Company:

Apex Laboratories

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Darrell Auvil, Client Services Manager

Apex Laboratories, LLC

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15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5B1776 - 05 29 25 1559**

APEX LABS COOLER RECEIPT FORM

Client: Apex Companies Element WO#: A5 B1776

Project/Project #: Willamette Cove

Delivery Info:

Date/time received: 2/28/25 @ 757 By: KMS

Delivered by: Apex__Client X ESS__FedEx__UPS__Radio__Morgan__SDS__Evergreen__Other__

From USDA Regulated Origin? Yes _____ No X

Cooler Inspection Date/time inspected: 2/28/25 @ 757 By: KMS

Chain of Custody included? Yes X No _____

Signed/dated by client? Yes X No _____

Contains USDA Reg. Soils? Yes _____ No X Unsure (email RegSoils) _____

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	3.4						
Custody seals? (Y/N)	N						
Received on ice? (Y/N)	Y						
Temp. blanks? (Y/N)	Y						
Ice type: (Gel/Real/Other)	Real						
Condition (In/Out):	In						

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: 2/28/25 @ 0800 By: KS

All samples intact? Yes X No ___ Comments: _____

Bottle labels/COCs agree? Yes ___ No X Comments: Received an extra sample that wasn't listed on the COC. TB-GW-46 2/27/25 1630

COC/container discrepancies form initiated? Yes ___ No X

Containers/volumes received appropriate for analysis? Yes X No ___ Comments: _____

Do VOA vials have visible headspace? Yes ___ No ___ NA X

Comments _____

Water samples: pH checked: Yes X No ___ NA ___ pH appropriate? Yes X No ___ NA ___ pH ID: A23172

Comments: _____

Labeled by: KS Witness: AMW Cooler Inspected by: KS

Form Y-003 R-02 -

Apex Laboratories

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Darrell Auvil, Client Services Manager

CERES Analytical Laboratory, Inc.
4919 Windplay Dr. Suite 1, El Dorado Hills, CA 95762

March 21, 2025 Ceres ID: 19229

Apex Laboratories
6700 S.W. Sandburg Street
Tigard, OR 97223

The following report contains the results for the two aqueous samples received on March 5, 2025. These samples were analyzed for congener PCBs by EPA method 1668C. Standard 3-week turn-around time was provided for this work.

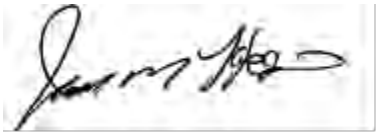
This work was authorized under Apex Laboratories' Project # A5B1776.

Continuing Calibration Verification (CCV) Requirements
All associated calibration verification standard(s) (CCV) met the acceptance criteria.

The report consists of a Cover Letter, Sample Inventory (Section I), Data Summary (Section II), Sample Tracking (Section VI), and Qualifiers/Abbreviations (Section VII). Raw Data (Section III), Continuing Calibration (Section IV), and Initial Calibration (Section V) are available in a full report (.pdf format) upon request.

If you have any questions regarding this report, please feel free to contact me at (916)932-5011.

Sincerely,



James M. Hedin
Director of Operations/CEO
jhedin@ceres-lab.com

Section I: Sample Inventory

Ceres Sample ID:	Sample ID	Date Received	Collection Date	&Time
19229-001	T3-GW-34	3/5/2025	2/27/2025	13:30
19229-002	T3-GW-46	3/5/2025	2/27/2025	16:30

Section II: Data Summary

Sample ID: Method Blank

	Ceres ID:	0-3442-MB		**Date Received:**	NA
Project ID:	A5B1776	**QC Batch #:**	3442	**Date Extracted:**	14-Mar-25
Matrix:	Aqueous	**Sample Size:**	1.000 L	**Analyzed Date:**	15-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2-MoCB	1	ND		20.0	2.08
3-MoCB	2	ND		20.0	3.49
4-MoCB	3	ND		20.0	3.49
2,2'-/2,6-DiCB	4/10	ND		20.0	8.07
2,4-/2,5-DiCB	7/9	ND		20.0	8.07
2,3'-DiCB	6	ND		20.0	8.07
2,3-/2,4'-DiCB	5/8	ND		20.0	8.07
3,5-DiCB	14	ND		20.0	8.31
3,3'-DiCB	11	ND		20.0	8.31
3,4-/3,4'-DiCB	12/13	ND		20.0	8.31
4,4'-DiCB	15	ND		20.0	8.31
2,2',6-TrCB	19	ND		20.0	4.97
2,4,6-TrCB	30	ND		20.0	4.97
2,2',5-TrCB	18	ND		20.0	4.97
2,2',4-TrCB	17	ND		20.0	4.97
2,3,6-/2,3',6-TrCB	24/27	ND		20.0	4.97
2,2',3-/2,4',6-TrCB	16/32	ND		20.0	4.97
2',3,5-TrCB	34	ND		20.0	5.86
2,3,5-TrCB	23	ND		20.0	5.86
2,4,5-TrCB	29	ND		20.0	5.86
2,3',5-TrCB	26	ND		20.0	5.86
2,3',4-TrCB	25	ND		20.0	5.86
2,4',5-TrCB	31	ND		20.0	5.86
2,4,4'-TrCB	28	ND		20.0	5.86
2,3,3'-/2,3,4-/2',3,4-TrCB	20/21/33	ND		20.0	5.86
2,3,4'-TrCB	22	ND		20.0	5.86
3,3',5-TrCB	36	ND		20.0	5.86
3,4',5-TrCB	39	ND		20.0	5.86
3,4,5-TrCB	38	ND		20.0	5.86
3,3',4-TrCB	35	ND		20.0	5.86
3,4,4'-TrCB	37	ND		20.0	5.86
2,2',6,6'-TeCB	54	ND		20.0	3.75
2,2',4,6-TeCB	50	ND		20.0	3.75
2,2',5,6'-TeCB	53	ND		20.0	3.75
2,2',4,6'-TeCB	51	ND		20.0	3.75
2,2',3,6-TeCB	45	ND		20.0	3.75
2,2',3,6'-TeCB	46	ND		20.0	3.75
2,2',5,5'-/2,3',4,6-TeCB	52/69	ND		20.0	3.75
2,3',5',6-TeCB	73	ND		20.0	3.75
2,2',3-5-/2,2',4,5'-TeCB	43/49	ND		20.0	3.75
2,2',4,4'-TeCB	47	ND		20.0	3.75
2,2',4,5-/2,4,4',6-TeCB	48/75	ND		20.0	3.75
2,3,5,6-TeCB	65	ND		20.0	3.75
2,3,4,6-TeCB	62	ND		20.0	3.75

Sample ID: Method Blank

		Ceres ID:	0-3442-MB	**Date Received:**	NA
Project:	A5B1776	**QC Batch #:**	3442	**Date Extracted:**	14-Mar-25
Matrix:	Aqueous	**Sample Size:**	1.000 L	**Analyzed Date:**	15-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2,2',3,5'-TeCB	44	ND		20.0	3.75
2,2',3,4'-/2,3,3',6-TeCB	42/59	ND		20.0	3.75
2,2',3,4-/2,3,4',6-/2,3',4',6-/2,3',5,5'-TeCB	41/64/71/72	ND		20.0	3.75
2,3',4,5'-TeCB	68	ND		20.0	3.75
2,2',3,3'-TeCB	40	ND		20.0	3.75
2,3,3',5-TeCB	57	ND		20.0	3.75
2,3',4,5-TeCB	67	ND		20.0	3.75
2,3,3',5'-TeCB	58	ND		20.0	3.75
2,3,4',5-TeCB	63	ND		20.0	3.75
2,4,4',5-TeCB	74	ND		20.0	3.75
2,3,4,5-/2,3',4',5-TeCB	61/70	ND		20.0	3.75
2,3',4,4'-/2',3,4,5-TeCB	66/76	ND		20.0	3.75
3,3',5,5'-TeCB	80	ND		20.0	3.75
2,3,3',4-TeCB	55	ND		20.0	3.75
2,3,3',4'-/2,3,4,4'-TeCB	56/60	ND		20.0	3.59
3,3',4,5'-TeCB	79	ND		20.0	3.59
3,3',4,5-TeCB	78	ND		20.0	3.59
3,4,4',5-TeCB	81	ND		20.0	3.59
3,3',4,4'-TeCB	77	ND		20.0	5.22
2,2',4,6,6'-PeCB	104	ND		20.0	4.75
2,2',3,6,6'-PeCB	96	ND		20.0	4.75
2,2',4,5'6-PeCB	103	ND		20.0	4.75
2,2',4,4',6-PeCB	100	ND		20.0	4.75
2,2',3,5,6'-PeCB	94	ND		20.0	4.75
2,2',3,5,6-/2,2',3,5',6-/2,2',3',4,6-/2,2',4,5,6'-PeCB	93/95/98/102	ND		20.0	4.75
2,2',3,4,6-PeCB	88/91	ND		20.0	4.75
2,3',4,5',6-PeCB	121	ND		20.0	4.75
2,2',3,3',6-/2,2',3,5,5'-PeCB	84/92	ND		20.0	3.46
2,2',3,4,6'-PeCB	89	ND		20.0	3.46
2,2',3,4',5-/2,2',4,5,5'-PeCB	90/101	ND		20.0	3.46
2,3,3',5',6-PeCB	113	ND		20.0	3.46
2,2',4,4',5-PeCB	99	ND		20.0	3.46
2,2',3,3',5-PeCB	83	ND		20.0	3.46
2,3,3',5,6-/2,3',4,4',6-PeCB	112/119	ND		20.0	3.46
2,3,3',4,6-PeCB	109	ND		20.0	3.46
2,2',3',4,5-PeCB	97	ND		20.0	3.46
2,2',3,4,5-PeCB	86	ND		20.0	3.46
2,2',3,4,5'-/2,3,4',5,6-/2',3,4,5,6'-PeCB	87/117/125	ND		20.0	3.46
2,3,3',5,5'-/2,3,4,4',6-PeCB	111/115	ND		20.0	3.46
2,2',3,4,4'-/2,3,4,5,6-PeCB	85/116	ND		20.0	3.46
2,3',4,5,5'-PeCB	120	ND		20.0	3.46
2-3,3',4',6-PeCB	110	ND		20.0	3.46

Sample ID: Method Blank

		Ceres ID:	0-3442-MB		**Date Received:**	NA
Project:	A5B1776	**QC Batch #:**	3442		**Date Extracted:**	14-Mar-25
Matrix:	Aqueous	**Sample Size:**	1.000	L	**Analyzed Date:**	15-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2,2',3,3',4-PeCB	82	ND		20.0	3.46
2',3,4,5,5'-PeCB	124	ND		20.0	3.46
2,3,3',4',5-/2,3,3',4,5'-PeCB	107/108	ND		20.0	3.46
2,3',4,4',5'-PeCB	123	ND		20.0	3.46
2,3,3',4,5-/2,3',4,4',5-PeCB	106/118	ND		20.0	5.58
2,3,4,4',5-PeCB	114	ND		20.0	3.25
2',3,3',4,5-PeCB	122	ND		20.0	3.25
2,3,3',4,4'-PeCB	105	ND		20.0	4.87
3,3',4,5,5'-PeCB	127	ND		20.0	4.87
3,3',4,4',5-PeCB	126	ND		20.0	5.73
2,2',4,4',6,6'-HxCB	155	ND		20.0	4.86
2,2',3,4',6,6'-HxCB	150	ND		20.0	4.86
2,2',3,5,6,6'-HxCB	152	ND		20.0	4.86
2,2',3,4,6,6'-HxCB	145	ND		20.0	4.86
2,2',3,3',6,6'-HxCB	136	ND		20.0	4.86
2,2',3,4',5,6'-HxCB	148	ND		20.0	4.86
2,2',4,4',5',6-HxCB	154	ND		20.0	4.86
2,2',3,5,5',6-HxCB	151	ND		20.0	4.86
2,2',3,3',5,6'-HxCB	135	ND		20.0	4.86
2,2',3,4,5',6-HxCB	144	ND		20.0	4.86
2,2',3,4',5,6-HxCB	147	ND		20.0	4.86
2,2',3,4,4',6-/2,2',3,4',5',6-HxCB	139/149	ND		20.0	4.86
2,2',3,4,4',6'-HxCB	140	ND		20.0	4.86
2,2',3,3',5,6-/2,2',3,4,5,6'-HxCB	134/143	ND		20.0	5.19
2,2',3,3',4,6-/2,2',3,4,5,6-HxCB	131/142	ND		20.0	5.19
2,2',3,3',5,5'-HxCB	133	ND		20.0	5.19
2,2',3,3',4,6'-/2,2',3,4',5,5'-HxCB	132/146	ND		20.0	5.19
2,3,3',4,5',6-/2,3,3',5,5',6-HxCB	161/165	ND		20.0	5.19
2,2',4,4',5,5'-HxCB	153	ND		20.0	5.19
2,3',4,4',5',6-HxCB	168	ND		20.0	5.19
2,2',3,4,5,5'-HxCB	141	ND		20.0	5.19
2,2',3,4,4',5-HxCB	137	ND		20.0	5.19
2,2',3,3',4,5'-HxCB	130	ND		20.0	5.19
2,2',3,4,4',5-/2,3,3',4',5,6-/2,3,3',4',5',6-HxCB	138/163/164	ND		20.0	5.19
2,3,3',4,4',6-/2,3,3',4,5,6-HxCB	158/160	ND		20.0	5.19
2,2',3,3',4,5-HxCB	129	ND		20.0	5.19
2,3,4,4',5,6-HxCB	166	ND		20.0	5.19
2,3,3',4,5,5'-HxCB	159	ND		20.0	5.19
2,2',3,3',4,4'-/2,3,3',4',5,5'-HxCB	128/162	ND		20.0	5.19
2,3',4,4',5,5'-HxCB	167	ND		20.0	5.19
2,3,3',4,4',5-HxCB	156	ND		20.0	4.13
2,3,3',4,4',5'-HxCB	157	ND		20.0	6.07
3,3',4,4',5,5'-HxCB	169	ND		20.0	5.20

Sample ID: Method Blank

		Ceres ID:	0-3442-MB		**Date Received:**	NA
Project:	A5B1776	**QC Batch #:**	3442		**Date Extracted:**	14-Mar-25
Matrix:	Aqueous	**Sample Size:**	1.000	L	**Analyzed Date:**	15-Mar-25

Analyte	**Congener #**	**Conc. (pg/L)**	**Qual.**	**RL**	**MDL**
2,2',3,4',5,6,6'-HpCB	188	ND		20.0	5.69
2,2',3,4,4',6,6'-HpCB	184	ND		20.0	5.69
2,2',3,3',5,6,6'-HpCB	179	ND		20.0	5.69
2,2',3,3',4,6,6'-HpCB	176	ND		20.0	5.69
2,2',3,4,5,6,6'-HpCB	186	ND		20.0	5.69
2,2',3,3',5,5',6-HpCB	178	ND		20.0	5.69
2,2',3,3',4,5',6-HpCB	175	ND		20.0	5.69
2,2',3,4,4',5,6'-/2,2',3,4',5,5',6-HpCB	182/187	ND		20.0	5.69
2,2',3,4,4',5',6-HpCB	183	ND		20.0	5.69
2,2',3,4,5,5',6-HpCB	185	ND		20.0	3.69
2,2',3,3',4,5,6'-HpCB	174	ND		20.0	3.69
2,2',3,4,4',5,6-HpCB	181	ND		20.0	3.69
2,2',3,3',4',5,6-HpCB	177	ND		20.0	3.69
2,2',3,3',4,4',6-HpCB	171	ND		20.0	3.69
2,2',3,3',4,5,6-HpCB	173	ND		20.0	3.69
2,2',3,3',4,5,5'-HpCB	172	ND		20.0	3.69
2,3,3',4,5,5',6-HpCB	192	ND		20.0	3.69
2,2',3,4,4',5,5'-HpCB	180	ND		20.0	3.69
2,3,3',4',5,5',6-HpCB	193	ND		20.0	3.69
2,3,3',4,4',5',6-HpCB	191	ND		20.0	3.69
2,2',3,3',4,4',5-HpCB	170	ND		20.0	3.69
2,3,3',4,4',5,6-HpCB	190	ND		20.0	3.69
2,3,3',4,4',5,5'-HpCB	189	ND		20.0	3.69
2,2',3,3',5,5',6,6'-OcCB	202	ND		20.0	4.31
2,2',3,3',4,5',6,6'-OcCB	201	ND		20.0	4.31
2,2',3,4,4',5,6,6'-OcCB	204	ND		20.0	4.31
2,2',3,3',4,4',6,6'-OcCB	197	ND		20.0	4.31
2,2',3,3',4,5,6,6'-OcCB	200	ND		20.0	4.31
2,2',3,3',4,5,5',6-OcCB	198	ND		20.0	4.31
2,2',3,3',4,5,5',6'-OcCB	199	ND		20.0	4.31
2,2',3,3',4,4',5,6'-/2,2',3,4,4',5,5',6-OcCB	196/203	ND		20.0	4.31
2,2',3,3',4,4',5,6-OcCB	195	ND		20.0	7.16
2,2',3,3',4,4',5,5'-OcCB	194	ND		20.0	7.16
2,3,3',4,4',5,5',6-OcCB	205	ND		20.0	7.16
2,2',3,3',4,5,5',6,6'-NoCB	208	ND		20.0	3.75
2,2',3,3',4,4',5,6,6'-NoCB	207	ND		20.0	3.75
2,2',3,3',4,4',5,5',6-NoCB	206	ND		20.0	5.61
Decachlorobiphenyl	209	ND		20.0	4.14

Sample ID: Method Blank

		Ceres ID:	0-3442-MB	**Date Received:**	NA
Project:	A5B1776	**QC Batch #:**	3442	**Date Extracted:**	14-Mar-25
Matrix:	Aqueous	**Sample Size:**	1.000 L	**Analyzed Date:**	15-Mar-25

Totals	**Chlorination Level**	**Conc. (pg/L)**	**Qual.**	**RL**
Monochlorobiphenyl	MoCB	0		20.0
Dichlorobiphenyl	DiCB	0		20.0
Trichlorobiphenyl	TrCB	0		20.0
Tetrachlorobiphenyl	TeCB	0		20.0
Pentachlorobiphenyl	PeCB	0		20.0
Hexachlorobiphenyl	HxCB	0		20.0
Heptachlorobiphenyl	HpCB	0		20.0
Octachlorobiphenyl	OcCB	0		20.0
Nonachlorobiphenyl	NoCB	0		20.0
Decachlorobiphenyl	DeCB	ND		20.0

Labeled Standards	**Congener #**	**% Rec.**	**Limits**
$^{13}C_{12}$-2-MoCB	1	133	5-145
$^{13}C_{12}$-4-MoCB	3	117	5-145
$^{13}C_{12}$-2,2'-DiCB	4	107	5-145
$^{13}C_{12}$-4,4'-DiCB	15	87.1	5-145
$^{13}C_{12}$-2,2',6-TrCB	19	142	5-145
$^{13}C_{12}$-3,4,4'-TrCB	37	46.3	5-145
$^{13}C_{12}$-2,2',6,6'-TeCB	54	54.4	5-145
$^{13}C_{12}$-3,4,4',5-TeCB	81	99.2	10-145
$^{13}C_{12}$-3,3',4,4'-TeCB	77	96.4	10-145
$^{13}C_{12}$-2,2',4,6,6'-PeCB	104	93.8	10-145
$^{13}C_{12}$-2,3',4,4',5'-PeCB	123	101	10-145
$^{13}C_{12}$-2,3',4,4',5-PeCB	118	101	10-145
$^{13}C_{12}$-2,3,4,4',5-PeCB	114	62.1	10-145
$^{13}C_{12}$-2,3,3',4,4'-PeCB	105	63.8	10-145
$^{13}C_{12}$-3,3',4,4',5-PeCB	126	58.9	10-145
$^{13}C_{12}$-2,2',4,4',6,6'-HxCB	155	127	10-145
$^{13}C_{12}$-2,3',4,4',5,5'-HxCB	167	95.3	10-145
$^{13}C_{12}$-2,3,3',4,4',5-HxCB	156	95.5	10-145
$^{13}C_{12}$-2,3,3',4,4',5'-HxCB	157	92.1	10-145
$^{13}C_{12}$-3,3',4,4',5,5'-HxCB	169	93.0	10-145
$^{13}C_{12}$-2,2',3,4',5,6,6'-HpCB	188	113	10-145
$^{13}C_{12}$-2,3,3',4,4',5,5'-HpCB	189	122	10-145
$^{13}C_{12}$-2,2',3,3',5,5',6,6'-OcCB	202	135	10-145
$^{13}C_{12}$-2,3,3',4,4',5,5',6-OcCB	205	92.4	10-145
$^{13}C_{12}$-2,2',3,3',4,5,5',6,6'-NoCB	208	98.5	10-145
$^{13}C_{12}$-2,2',3,3',4,4',5,5',6-NoCB	206	128	10-145
$^{13}C_{12}$-Decachlorobiphenyl	209	134	10-145
Cleanup Standards			
$^{13}C_{12}$-2,4,4'-TrCB	28	49.6	5-145
$^{13}C_{12}$-2,3,3',5,5'-PeCB	111	107	10-145
$^{13}C_{12}$-2,2',3,3',5,5',6-HpCB	178	117	10-145

Sample ID: **Ongoing Precision and Recovery (OPR)**

		Ceres ID:	0-3442-OPR	**Date Received:**	NA
Project:	A5B1776	**QC Batch #:**	3442	**Date Extracted:**	14-Mar-25
Matrix:	Aqueous	**Sample Size:**	1.000 L	**Analyzed Date:**	15-Mar-25

Analyte	**Congener #**	**Units**	**Conc. Found**	**Limits**
2-MoCB	1	ng/mL	32.6	30-67.5
4-MoCB	3	ng/mL	32.3	30-67.5
2,2'-/2,6-DiCB	4/10	ng/mL	77.5	60-135
4,4'-DiCB	15	ng/mL	37.8	30-67.5
2,2',6-TrCB	19	ng/mL	38.8	30-67.5
3,4,4'-TrCB	37	ng/mL	37.1	30-67.5
2,2',6,6'-TeCB	54	ng/mL	55.6	30-67.5
3,4,4',5-TeCB	81	ng/mL	39.0	30-67.5
3,3',4,4'-TeCB	77	ng/mL	43.7	30-67.5
2,2',4,6,6'-PeCB	104	ng/mL	39.6	30-67.5
2,3',4,4',5'-PeCB	123	ng/mL	39.4	30-67.5
2,3,3',4,5-/2,3',4,4',5-PeCB	106/118	ng/mL	80.4	60-135
2,3,4,4',5-PeCB	114	ng/mL	42.1	30-67.5
2,3,3',4,4'-PeCB	105	ng/mL	43.0	30-67.5
3,3',4,4',5-PeCB	126	ng/mL	42.4	30-67.5
2,2',4,4',6,6'-HxCB	155	ng/mL	42.2	30-67.5
2,3',4,4',5,5'-HxCB	167	ng/mL	38.1	30-67.5
2,3,3',4,4',5-HxCB	156	ng/mL	37.5	30-67.5
2,3,3',4,4',5'-HxCB	157	ng/mL	39.0	30-67.5
3,3',4,4',5,5'-HxCB	169	ng/mL	370	30-67.5
2,2',3,4',5,6,6'-HpCB	188	ng/mL	38.5	30-67.5
2,3,3',4,4',5,5'-HpCB	189	ng/mL	37.1	30-67.5
2,2',3,3',5,5',6,6'-OcCB	202	ng/mL	41.7	30-67.5
2,3,3',4,4',5,5',6-OcCB	205	ng/mL	45.8	30-67.5
2,2',3,3',4,5,5',6,6'-NoCB	208	ng/mL	43.9	30-67.5
2,2',3,3',4,4',5,5',6-NoCB	206	ng/mL	41.6	30-67.5
Decachlorobiphenyl	209	ng/mL	44.4	30-67.5

Sample ID: **Ongoing Precision and Recovery (OPR)**

		Ceres ID:	0-3442-OPR	**Date Received:**	NA
Project:	A5B1776	**QC Batch #:**	3442	**Date Extracted:**	14-Mar-25
Matrix:	Aqueous	**Sample Size:**	1.000 L	**Analyzed Date:**	15-Mar-25

Labeled Standards	**Congener #**	**Units**		**Limits**
$^{13}C_{12}$-2-MoCB	1	%	97.8	15-145
$^{13}C_{12}$-4-MoCB	3	%	86.6	15-145
$^{13}C_{12}$-2,2'-DiCB	4	%	108	15-145
$^{13}C_{12}$-4,4'-DiCB	15	%	84.2	15-145
$^{13}C_{12}$-2,2',6-TrCB	19	%	141	15-145
$^{13}C_{12}$-3,4,4'-TrCB	37	%	47.9	15-145
$^{13}C_{12}$-2,2',6,6'-TeCB	54	%	60.7	15-145
$^{13}C_{12}$-3,4,4',5-TeCB	81	%	95.8	40-145
$^{13}C_{12}$-3,3',4,4'-TeCB	77	%	96.7	40-145
$^{13}C_{12}$-2,2',4,6,6'-PeCB	104	%	99.1	40-145
$^{13}C_{12}$-2,3',4,4',5'-PeCB	123	%	104	40-145
$^{13}C_{12}$-2,3',4,4',5-PeCB	118	%	105	40-145
$^{13}C_{12}$-2,3,4,4',5-PeCB	114	%	60.3	40-145
$^{13}C_{12}$-2,3,3',4,4'-PeCB	105	%	60.7	40-145
$^{13}C_{12}$-3,3',4,4',5-PeCB	126	%	59.4	40-145
$^{13}C_{12}$-2,2',4,4',6,6'-HxCB	155	%	133	40-145
$^{13}C_{12}$-2,3',4,4',5,5'-HxCB	167	%	90.8	40-145
$^{13}C_{12}$-2,3,3',4,4',5-HxCB	156	%	92.3	40-145
$^{13}C_{12}$-2,3,3',4,4',5'-HxCB	157	%	93.4	40-145
$^{13}C_{12}$-3,3',4,4',5,5'-HxCB	169	%	99.2	40-145
$^{13}C_{12}$-2,2',3,4',5,6,6'-HpCB	188	%	118	40-145
$^{13}C_{12}$-2,3,3',4,4',5,5'-HpCB	189	%	128	40-145
$^{13}C_{12}$-2,2',3,3',5,5',6,6'-OcCB	202	%	144	40-145
$^{13}C_{12}$-2,3,3',4,4',5,5',6-OcCB	205	%	96.5	40-145
$^{13}C_{12}$-2,2',3,3',4,5,5',6,6'-NoCB	208	%	112	40-145
$^{13}C_{12}$-2,2',3,3',4,4',5,5',6-NoCB	206	%	138	40-145
$^{13}C_{12}$-Decachlorobiphenyl	209	%	140	40-145
Cleanup Standards				
$^{13}C_{12}$-2,4,4'-TrCB	28	%	50.3	15-145
$^{13}C_{12}$-2,3,3',5,5'-PeCB	111	%	114	40-145
$^{13}C_{12}$-2,2',3,3',5,5',6-HpCB	178	%	114	40-145

Sample ID: T3-GW-34

Project ID:	A5B1776	**Ceres ID:**	19229-001	**Date Received:**	3/5/2025
Matrix:	Aqueous	**QC Batch #:**	3442	**Date Extracted:**	3/14/2025
Date & Time Sampled:	2/27/2025 13:30	**Sample Size:**	0.961 L	**Analyzed Date:**	3/15/2025

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2-MoCB	1	ND		20.8	2.08
3-MoCB	2	ND		20.8	3.49
4-MoCB	3	ND		20.8	3.49
2,2'-/2,6-DiCB	4/10	83.1		20.8	8.07
2,4-/2,5-DiCB	7/9	ND		20.8	8.07
2,3'-DiCB	6	41.9		20.8	8.07
2,3-/2,4'-DiCB	5/8	306		20.8	8.07
3,5-DiCB	14	ND		20.8	8.31
3,3'-DiCB	11	1600		20.8	8.31
3,4-/3,4'-DiCB	12/13	38.9		20.8	8.31
4,4'-DiCB	15	336		20.8	8.31
2,2',6-TrCB	19	104		20.8	4.97
2,4,6-TrCB	30	ND		20.8	4.97
2,2',5-TrCB	18	1200		20.8	4.97
2,2',4-TrCB	17	593		20.8	4.97
2,3,6-/2,3',6-TrCB	24/27	117		20.8	4.97
2,2',3-/2,4',6-TrCB	16/32	1110		20.8	4.97
2',3,5-TrCB	34	ND		20.8	5.86
2,3,5-TrCB	23	ND		20.8	5.86
2,4,5-TrCB	29	19.9	J	20.8	5.86
2,3',5-TrCB	26	534		20.8	5.86
2,3',4-TrCB	25	211		20.8	5.86
2,4',5-TrCB	31	2280		20.8	5.86
2,4,4'-TrCB	28	2720		20.8	5.86
2,3,3'-/2,3,4-/2',3,4-TrCB	20/21/33	2300		20.8	5.86
2,3,4'-TrCB	22	1110		20.8	5.86
3,3',5-TrCB	36	ND		20.8	5.86
3,4',5-TrCB	39	ND		20.8	5.86
3,4,5-TrCB	38	25.1		20.8	5.86
3,3',4-TrCB	35	42.7		20.8	5.86
3,4,4'-TrCB	37	781		20.8	5.86
2,2',6,6'-TeCB	54	ND		20.8	3.75
2,2',4,6-TeCB	50	ND		20.8	3.75
2,2',5,6'-TeCB	53	287		20.8	3.75
2,2',4,6'-TeCB	51	116		20.8	3.75
2,2',3,6-TeCB	45	350		20.8	3.75
2,2',3,6'-TeCB	46	156		20.8	3.75
2,2',5,5'-/2,3',4,6-TeCB	52/69	2150		20.8	3.75
2,3',5',6-TeCB	73	82.8		20.8	3.75
2,2',3-5-/2,2',4,5'-TeCB	43/49	1640		20.8	3.75
2,2',4,4'-TeCB	47	590		20.8	3.75
2,2',4,5-/2,4,4',6-TeCB	48/75	468		20.8	3.75
2,3,5,6-TeCB	65	ND		20.8	3.75
2,3,4,6-TeCB	62	ND		20.8	3.75

Sample ID: T3-GW-34

Project:	A5B1776	**Ceres ID:**	19229-001	**Date Received:**	5-Mar-25
Matrix:	Aqueous	**QC Batch #:**	3442	**Date Extracted:**	14-Mar-25
Date & Time Sampled:	2/27/2025 13:30	**Sample Size:**	0.961 L	**Analyzed Date:**	15-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2,2',3,5'-TeCB	44	2120		20.8	3.75
2,2',3,4'-/2,3,3',6-TeCB	42/59	768		20.8	3.75
2,2',3,4-/2,3,4',6-/2,3',4',6-/2,3',5,5'-TeCB	41/64/71/72	2030		20.8	3.75
2,3',4,5'-TeCB	68	19.6	J	20.8	3.75
2,2',3,3'-TeCB	40	451		20.8	3.75
2,3,3',5-TeCB	57	16.7	J	20.8	3.75
2,3',4,5-TeCB	67	91.8		20.8	3.75
2,3,3',5'-TeCB	58	ND		20.8	3.75
2,3,4',5-TeCB	63	81.5		20.8	3.75
2,4,4',5-TeCB	74	943		20.8	3.75
2,3,4,5-/2,3',4',5-TeCB	61/70	2270		20.8	3.75
2,3',4,4'-/2',3,4,5-TeCB	66/76	1740		20.8	3.75
3,3',5,5'-TeCB	80	ND		20.8	3.75
2,3,3',4-TeCB	55	58.3		20.8	3.75
2,3,3',4'-/2,3,4,4'-TeCB	56/60	1150		20.8	3.59
3,3',4,5'-TeCB	79	23.5		20.8	3.59
3,3',4,5-TeCB	78	ND		20.8	3.59
3,4,4',5-TeCB	81	53.9		20.8	3.59
3,3',4,4'-TeCB	77	93.4		20.8	5.22
2,2',4,6,6'-PeCB	104	ND		20.8	4.75
2,2',3,6,6'-PeCB	96	ND		20.8	4.75
2,2',4,5'6-PeCB	103	15.5	J	20.8	4.75
2,2',4,4',6-PeCB	100	ND		20.8	4.75
2,2',3,5,6'-PeCB	94	ND		20.8	4.75
2,2',3,5,6-/2,2',3,5',6-/2,2',3',4,6-/2,2',4,5,6'-PeCB	93/95/98/102	2080		20.8	4.75
2,2',3,4,6-PeCB	88/91	371		20.8	4.75
2,3',4,5',6-PeCB	121	ND		20.8	4.75
2,2',3,3',6-/2,2',3,5,5'-PeCB	84/92	803		20.8	3.46
2,2',3,4,6'-PeCB	89	ND		20.8	3.46
2,2',3,4',5-/2,2',4,5,5'-PeCB	90/101	1990		20.8	3.46
2,3,3',5',6-PeCB	113	ND		20.8	3.46
2,2',4,4',5-PeCB	99	692		20.8	3.46
2,2',3,3',5-PeCB	83	32.8		20.8	3.46
2,3,3',5,6-/2,3',4,4',6-PeCB	112/119	104		20.8	3.46
2,3,3',4,6-PeCB	109	ND		20.8	3.46
2,2',3',4,5-PeCB	97	612		20.8	3.46
2,2',3,4,5-PeCB	86	ND		20.8	3.46
2,2',3,4,5'-/2,3,4',5,6-/2',3,4,5,6'-PeCB	87/117/125	638		20.8	3.46
2,3,3',5,5'-/2,3,4,4',6-PeCB	111/115	31.4		20.8	3.46
2,2',3,4,4'-/2,3,4,5,6-PeCB	85/116	253		20.8	3.46
2,3',4,5,5'-PeCB	120	ND		20.8	3.46
2-3,3',4',6-PeCB	110	2380		20.8	3.46

Sample ID: T3-GW-34

Project:	A5B1776	**Ceres ID:**	19229-001	**Date Received:**	5-Mar-25
Matrix:	Aqueous	**QC Batch #:**	3442	**Date Extracted:**	14-Mar-25
Date & Time Sampled:	2/27/2025 13:30	**Sample Size:**	0.961 L	**Analyzed Date:**	15-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2,2',3,3',4-PeCB	82	221		20.8	3.46
2',3,4,5,5'-PeCB	124	ND		20.8	3.46
2,3,3',4',5-/2,3,3',4,5'-PeCB	107/108	82.1		20.8	3.46
2,3',4,4',5'-PeCB	123	29.7		20.8	3.46
2,3,3',4,5-/2,3',4,4',5-PeCB	106/118	1500		20.8	5.58
2,3,4,4',5-PeCB	114	33.4		20.8	3.25
2',3,3',4,5-PeCB	122	26.3		20.8	3.25
2,3,3',4,4'-PeCB	105	638		20.8	4.87
3,3',4,5,5'-PeCB	127	ND		20.8	4.87
3,3',4,4',5-PeCB	126	10.9	J	20.8	5.73
2,2',4,4',6,6'-HxCB	155	ND		20.8	4.86
2,2',3,4',6,6'-HxCB	150	ND		20.8	4.86
2,2',3,5,6,6'-HxCB	152	ND		20.8	4.86
2,2',3,4,6,6'-HxCB	145	ND		20.8	4.86
2,2',3,3',6,6'-HxCB	136	298		20.8	4.86
2,2',3,4',5,6'-HxCB	148	ND		20.8	4.86
2,2',4,4',5',6-HxCB	154	ND		20.8	4.86
2,2',3,5,5',6-HxCB	151	534		20.8	4.86
2,2',3,3',5,6'-HxCB	135	286		20.8	4.86
2,2',3,4,5',6-HxCB	144	126		20.8	4.86
2,2',3,4',5,6-HxCB	147	57.7		20.8	4.86
2,2',3,4,4',6-/2,2',3,4',5',6-HxCB	139/149	1910		20.8	4.86
2,2',3,4,4',6'-HxCB	140	ND		20.8	4.86
2,2',3,3',5,6-/2,2',3,4,5,6'-HxCB	134/143	116		20.8	5.19
2,2',3,3',4,6-/2,2',3,4,5,6-HxCB	131/142	75.1		20.8	5.19
2,2',3,3',5,5'-HxCB	133	ND		20.8	5.19
2,2',3,3',4,6'-/2,2',3,4',5,5'-HxCB	132/146	299		20.8	5.19
2,3,3',4,5',6-/2,3,3',5,5',6-HxCB	161/165	678		20.8	5.19
2,2',4,4',5,5'-HxCB	153	2080		20.8	5.19
2,3',4,4',5',6-HxCB	168	ND		20.8	5.19
2,2',3,4,5,5'-HxCB	141	484		20.8	5.19
2,2',3,4,4',5-HxCB	137	102		20.8	5.19
2,2',3,3',4,5'-HxCB	130	119		20.8	5.19
2,2',3,4,4',5-/2,3,3',4',5,6-/2,3,3',4',5',6-HxCB	138/163/164	2380		20.8	5.19
2,3,3',4,4',6-/2,3,3',4,5,6-HxCB	158/160	239		20.8	5.19
2,2',3,3',4,5-HxCB	129	126		20.8	5.19
2,3,4,4',5,6-HxCB	166	10.7	J	20.8	5.19
2,3,3',4,5,5'-HxCB	159	26.0		20.8	5.19
2,2',3,3',4,4'-/2,3,3',4',5,5'-HxCB	128/162	325		20.8	5.19
2,3',4,4',5,5'-HxCB	167	86.4		20.8	5.19
2,3,3',4,4',5-HxCB	156	202		20.8	4.13
2,3,3',4,4',5'-HxCB	157	63.8		20.8	6.07
3,3',4,4',5,5'-HxCB	169	ND		20.8	5.20

Sample ID: T3-GW-34

Project:	A5B1776	**Ceres ID:**	19229-001	**Date Received:**	5-Mar-25
Matrix:	Aqueous	**QC Batch #:**	3442	**Date Extracted:**	14-Mar-25
Date & Time Sampled:	2/27/2025 13:30	**Sample Size:**	0.961 L	**Analyzed Date:**	15-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2,2',3,4',5,6,6'-HpCB	188	ND		20.8	5.69
2,2',3,4,4',6,6'-HpCB	184	ND		20.8	5.69
2,2',3,3',5,6,6'-HpCB	179	297		20.8	5.69
2,2',3,3',4,6,6'-HpCB	176	97.2		20.8	5.69
2,2',3,4,5,6,6'-HpCB	186	ND		20.8	5.69
2,2',3,3',5,5',6-HpCB	178	129		20.8	5.69
2,2',3,3',4,5',6-HpCB	175	21.9		20.8	5.69
2,2',3,4,4',5,6'-/2,2',3,4',5,5',6-HpCB	182/187	789		20.8	5.69
2,2',3,4,4',5',6-HpCB	183	308		20.8	5.69
2,2',3,4,5,5',6-HpCB	185	112	*	20.8	3.69
2,2',3,3',4,5,6'-HpCB	174	690	*	20.8	3.69
2,2',3,4,4',5,6-HpCB	181	ND	*	20.8	3.69
2,2',3,3',4',5,6-HpCB	177	399	*	20.8	3.69
2,2',3,3',4,4',6-HpCB	171	200	*	20.8	3.69
2,2',3,3',4,5,6-HpCB	173	28.9	*	20.8	3.69
2,2',3,3',4,5,5'-HpCB	172	139	*	20.8	3.69
2,3,3',4,5,5',6-HpCB	192	ND	*	20.8	3.69
2,2',3,4,4',5,5'-HpCB	180	1600	*	20.8	3.69
2,3,3',4',5,5',6-HpCB	193	83.2	*	20.8	3.69
2,3,3',4,4',5',6-HpCB	191	31.7	*	20.8	3.69
2,2',3,3',4,4',5-HpCB	170	597	*	20.8	3.69
2,3,3',4,4',5,6-HpCB	190	112	*	20.8	3.69
2,3,3',4,4',5,5'-HpCB	189	20.9	*	20.8	3.69
2,2',3,3',5,5',6,6'-OcCB	202	115		20.8	4.31
2,2',3,3',4,5',6,6'-OcCB	201	78.8		20.8	4.31
2,2',3,4,4',5,6,6'-OcCB	204	ND		20.8	4.31
2,2',3,3',4,4',6,6'-OcCB	197	27.3		20.8	4.31
2,2',3,3',4,5,6,6'-OcCB	200	49.9		20.8	4.31
2,2',3,3',4,5,5',6-OcCB	198	22.9		20.8	4.31
2,2',3,3',4,5,5',6'-OcCB	199	484		20.8	4.31
2,2',3,3',4,4',5,6'-/2,2',3,4,4',5,5',6-OcCB	196/203	497		20.8	4.31
2,2',3,3',4,4',5,6-OcCB	195	207		20.8	7.16
2,2',3,3',4,4',5,5'-OcCB	194	419		20.8	7.16
2,3,3',4,4',5,5',6-OcCB	205	22.4		20.8	7.16
2,2',3,3',4,5,5',6,6'-NoCB	208	199		20.8	3.75
2,2',3,3',4,4',5,6,6'-NoCB	207	42.1		20.8	3.75
2,2',3,3',4,4',5,5',6-NoCB	206	578		20.8	5.61
Decachlorobiphenyl	209	665		20.8	4.14

Sample ID: T3-GW-34

Project:	A5B1776		**Ceres ID:**	19229-001		**Date Received:**	5-Mar-25
Matrix:	Aqueous		**QC Batch #:**	3442		**Date Extracted:**	14-Mar-25
Date & Time Sampled:	2/27/2025	13:30	**Sample Size:**	0.961	L	**Analyzed Date:**	15-Mar-25

Totals	**Chlorination Level**	**Conc. (pg/L)**	**Qual.**	**RL**
Monochlorobiphenyl	MoCB	0		20.8
Dichlorobiphenyl	DiCB	2406		20.8
Trichlorobiphenyl	TrCB	13148		20.8
Tetrachlorobiphenyl	TeCB	17751		20.8
Pentachlorobiphenyl	PeCB	12544		20.8
Hexachlorobiphenyl	HxCB	10624		20.8
Heptachlorobiphenyl	HpCB	5655.8		20.8
Octachlorobiphenyl	OcCB	1923.3		20.8
Nonachlorobiphenyl	NoCB	819.1		20.8
Decachlorobiphenyl	DeCB	665		20.8

Labeled Standards	**Congener #**	**% Rec.**		**Limits**
$^{13}C_{12}$-2-MoCB	1	92.5		5-145
$^{13}C_{12}$-4-MoCB	3	75.8		5-145
$^{13}C_{12}$-2,2'-DiCB	4	79.9		5-145
$^{13}C_{12}$-4,4'-DiCB	15	66.6		5-145
$^{13}C_{12}$-2,2',6-TrCB	19	101		5-145
$^{13}C_{12}$-3,4,4'-TrCB	37	47.0		5-145
$^{13}C_{12}$-2,2',6,6'-TeCB	54	74.0		5-145
$^{13}C_{12}$-3,4,4',5-TeCB	81	84.6		10-145
$^{13}C_{12}$-3,3',4,4'-TeCB	77	81.5		10-145
$^{13}C_{12}$-2,2',4,6,6'-PeCB	104	77.7		10-145
$^{13}C_{12}$-2,3',4,4',5'-PeCB	123	91.3		10-145
$^{13}C_{12}$-2,3',4,4',5-PeCB	118	85.6		10-145
$^{13}C_{12}$-2,3,4,4',5-PeCB	114	59.8		10-145
$^{13}C_{12}$-2,3,3',4,4'-PeCB	105	61.1		10-145
$^{13}C_{12}$-3,3',4,4',5-PeCB	126	59.8		10-145
$^{13}C_{12}$-2,2',4,4',6,6'-HxCB	155	104		10-145
$^{13}C_{12}$-2,3',4,4',5,5'-HxCB	167	72.9		10-145
$^{13}C_{12}$-2,3,3',4,4',5-HxCB	156	68.2		10-145
$^{13}C_{12}$-2,3,3',4,4',5'-HxCB	157	64.1		10-145
$^{13}C_{12}$-3,3',4,4',5,5'-HxCB	169	67.2		10-145
$^{13}C_{12}$-2,2',3,4',5,6,6'-HpCB	188	93.3		10-145
$^{13}C_{12}$-2,3,3',4,4',5,5'-HpCB	189	96.6	*	10-145
$^{13}C_{12}$-2,2',3,3',5,5',6,6'-OcCB	202	82.8		10-145
$^{13}C_{12}$-2,3,3',4,4',5,5',6-OcCB	205	80.3		10-145
$^{13}C_{12}$-2,2',3,3',4,5,5',6,6'-NoCB	208	90.6		10-145
$^{13}C_{12}$-2,2',3,3',4,4',5,5',6-NoCB	206	78.9		10-145
$^{13}C_{12}$-Decachlorobiphenyl	209	70.6		10-145
Cleanup Standards				
$^{13}C_{12}$-2,4,4'-TrCB	28	52.0		5-145
$^{13}C_{12}$-2,3,3',5,5'-PeCB	111	101		10-145
$^{13}C_{12}$-2,2',3,3',5,5',6-HpCB	178	103		10-145

Sample ID: T3-GW-46

Project ID:	A5B1776	**Ceres ID:**	19229-002	**Date Received:**	3/5/2025
Matrix:	Aqueous	**QC Batch #:**	3442	**Date Extracted:**	3/14/2025
Date & Time Sampled:	2/27/2025 16:30	**Sample Size:**	0.965 L	**Analyzed Date:**	3/15/2025

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2-MoCB	1	53.1		20.7	2.08
3-MoCB	2	31.6		20.7	3.49
4-MoCB	3	76.8		20.7	3.49
2,2'-/2,6-DiCB	4/10	101		20.7	8.07
2,4-/2,5-DiCB	7/9	49.9		20.7	8.07
2,3'-DiCB	6	61.6		20.7	8.07
2,3-/2,4'-DiCB	5/8	470		20.7	8.07
3,5-DiCB	14	ND		20.7	8.31
3,3'-DiCB	11	1920		20.7	8.31
3,4-/3,4'-DiCB	12/13	ND		20.7	8.31
4,4'-DiCB	15	482		20.7	8.31
2,2',6-TrCB	19	174		20.7	4.97
2,4,6-TrCB	30	ND		20.7	4.97
2,2',5-TrCB	18	3060		20.7	4.97
2,2',4-TrCB	17	1440		20.7	4.97
2,3,6-/2,3',6-TrCB	24/27	236		20.7	4.97
2,2',3-/2,4',6-TrCB	16/32	2400		20.7	4.97
2',3,5-TrCB	34	ND		20.7	5.86
2,3,5-TrCB	23	ND		20.7	5.86
2,4,5-TrCB	29	ND		20.7	5.86
2,3',5-TrCB	26	732		20.7	5.86
2,3',4-TrCB	25	419		20.7	5.86
2,4',5-TrCB	31	4060		20.7	5.86
2,4,4'-TrCB	28	4510		20.7	5.86
2,3,3'-/2,3,4-/2',3,4-TrCB	20/21/33	3080		20.7	5.86
2,3,4'-TrCB	22	1380		20.7	5.86
3,3',5-TrCB	36	ND		20.7	5.86
3,4',5-TrCB	39	ND		20.7	5.86
3,4,5-TrCB	38	ND		20.7	5.86
3,3',4-TrCB	35	ND		20.7	5.86
3,4,4'-TrCB	37	972		20.7	5.86
2,2',6,6'-TeCB	54	ND		20.7	3.75
2,2',4,6-TeCB	50	ND		20.7	3.75
2,2',5,6'-TeCB	53	452		20.7	3.75
2,2',4,6'-TeCB	51	133		20.7	3.75
2,2',3,6-TeCB	45	511		20.7	3.75
2,2',3,6'-TeCB	46	212		20.7	3.75
2,2',5,5'-/2,3',4,6-TeCB	52/69	3920		20.7	3.75
2,3',5',6-TeCB	73	ND		20.7	3.75
2,2',3-5-/2,2',4,5'-TeCB	43/49	2450		20.7	3.75
2,2',4,4'-TeCB	47	647		20.7	3.75
2,2',4,5-/2,4,4',6-TeCB	48/75	1480		20.7	3.75
2,3,5,6-TeCB	65	ND		20.7	3.75
2,3,4,6-TeCB	62	ND		20.7	3.75

Sample ID: T3-GW-46

Project:	A5B1776		**Ceres ID:**	19229-002		**Date Received:**	5-Mar-25
Matrix:	Aqueous		**QC Batch #:**	3442		**Date Extracted:**	14-Mar-25
Date & Time Sampled:	2/27/2025	16:30	**Sample Size:**	0.965	L	**Analyzed Date:**	15-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2,2',3,5'-TeCB	44	3280		20.7	3.75
2,2',3,4'-/2,3,3',6-TeCB	42/59	1490		20.7	3.75
2,2',3,4-/2,3,4',6-/2,3',4',6-/2,3',5,5'-TeCB	41/64/71/72	1650		20.7	3.75
2,3',4,5'-TeCB	68	ND		20.7	3.75
2,2',3,3'-TeCB	40	ND		20.7	3.75
2,3,3',5-TeCB	57	28.0		20.7	3.75
2,3',4,5-TeCB	67	14.6	J	20.7	3.75
2,3,3',5'-TeCB	58	137		20.7	3.75
2,3,4',5-TeCB	63	155		20.7	3.75
2,4,4',5-TeCB	74	1900		20.7	3.75
2,3,4,5-/2,3',4',5-TeCB	61/70	4700		20.7	3.75
2,3',4,4'-/2',3,4,5-TeCB	66/76	3610		20.7	3.75
3,3',5,5'-TeCB	80	ND		20.7	3.75
2,3,3',4-TeCB	55	98.3		20.7	3.75
2,3,3',4'-/2,3,4,4'-TeCB	56/60	2820		20.7	3.59
3,3',4,5'-TeCB	79	67.2		20.7	3.59
3,3',4,5-TeCB	78	ND		20.7	3.59
3,4,4',5-TeCB	81	90.9		20.7	3.59
3,3',4,4'-TeCB	77	293		20.7	5.22
2,2',4,6,6'-PeCB	104	ND		20.7	4.75
2,2',3,6,6'-PeCB	96	ND		20.7	4.75
2,2',4,5'6-PeCB	103	ND		20.7	4.75
2,2',4,4',6-PeCB	100	ND		20.7	4.75
2,2',3,5,6'-PeCB	94	ND		20.7	4.75
2,2',3,5,6-/2,2',3,5',6-/2,2',3',4,6-/2,2',4,5,6'-PeCB	93/95/98/102	3930		20.7	4.75
2,2',3,4,6-PeCB	88/91	ND		20.7	4.75
2,3',4,5',6-PeCB	121	294		20.7	4.75
2,2',3,3',6-/2,2',3,5,5'-PeCB	84/92	1640		20.7	3.46
2,2',3,4,6'-PeCB	89	70.9		20.7	3.46
2,2',3,4',5-/2,2',4,5,5'-PeCB	90/101	4690		20.7	3.46
2,3,3',5',6-PeCB	113	ND		20.7	3.46
2,2',4,4',5-PeCB	99	1510		20.7	3.46
2,2',3,3',5-PeCB	83	56.7		20.7	3.46
2,3,3',5,6-/2,3',4,4',6-PeCB	112/119	173		20.7	3.46
2,3,3',4,6-PeCB	109	ND		20.7	3.46
2,2',3',4,5-PeCB	97	1250		20.7	3.46
2,2',3,4,5-PeCB	86	63.4		20.7	3.46
2,2',3,4,5'-/2,3,4',5,6-/2',3,4,5,6'-PeCB	87/117/125	1250		20.7	3.46
2,3,3',5,5'-/2,3,4,4',6-PeCB	111/115	55.1		20.7	3.46
2,2',3,4,4'-/2,3,4,5,6-PeCB	85/116	535		20.7	3.46
2,3',4,5,5'-PeCB	120	ND		20.7	3.46
2-3,3',4',6-PeCB	110	4350		20.7	3.46

Sample ID: T3-GW-46

Project:	A5B1776	**Ceres ID:**	19229-002	**Date Received:**	5-Mar-25
Matrix:	Aqueous	**QC Batch #:**	3442	**Date Extracted:**	14-Mar-25
Date & Time Sampled:	2/27/2025 16:30	**Sample Size:**	0.965 L	**Analyzed Date:**	15-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2,2',3,3',4-PeCB	82	566		20.7	3.46
2',3,4,5,5'-PeCB	124	150		20.7	3.46
2,3,3',4',5-/2,3,3',4,5'-PeCB	107/108	199		20.7	3.46
2,3',4,4',5'-PeCB	123	52.4		20.7	3.46
2,3,3',4,5-/2,3',4,4',5-PeCB	106/118	3150		20.7	5.58
2,3,4,4',5-PeCB	114	101		20.7	3.25
2',3,3',4,5-PeCB	122	46.0		20.7	3.25
2,3,3',4,4'-PeCB	105	1460		20.7	4.87
3,3',4,5,5'-PeCB	127	114		20.7	4.87
3,3',4,4',5-PeCB	126	24.2		20.7	5.73
2,2',4,4',6,6'-HxCB	155	ND		20.7	4.86
2,2',3,4',6,6'-HxCB	150	ND		20.7	4.86
2,2',3,5,6,6'-HxCB	152	ND		20.7	4.86
2,2',3,4,6,6'-HxCB	145	ND		20.7	4.86
2,2',3,3',6,6'-HxCB	136	686		20.7	4.86
2,2',3,4',5,6'-HxCB	148	ND		20.7	4.86
2,2',4,4',5',6-HxCB	154	69.7		20.7	4.86
2,2',3,5,5',6-HxCB	151	1390		20.7	4.86
2,2',3,3',5,6'-HxCB	135	705		20.7	4.86
2,2',3,4,5',6-HxCB	144	244		20.7	4.86
2,2',3,4',5,6-HxCB	147	54.3		20.7	4.86
2,2',3,4,4',6-/2,2',3,4',5',6-HxCB	139/149	4670		20.7	4.86
2,2',3,4,4',6'-HxCB	140	ND		20.7	4.86
2,2',3,3',5,6-/2,2',3,4,5,6'-HxCB	134/143	278		20.7	5.19
2,2',3,3',4,6-/2,2',3,4,5,6-HxCB	131/142	157		20.7	5.19
2,2',3,3',5,5'-HxCB	133	ND		20.7	5.19
2,2',3,3',4,6'-/2,2',3,4',5,5'-HxCB	132/146	984		20.7	5.19
2,3,3',4,5',6-/2,3,3',5,5',6-HxCB	161/165	1790		20.7	5.19
2,2',4,4',5,5'-HxCB	153	6670		20.7	5.19
2,3',4,4',5',6-HxCB	168	10.6	J	20.7	5.19
2,2',3,4,5,5'-HxCB	141	1360		20.7	5.19
2,2',3,4,4',5-HxCB	137	158		20.7	5.19
2,2',3,3',4,5'-HxCB	130	248		20.7	5.19
2,2',3,4,4',5-/2,3,3',4',5,6-/2,3,3',4',5',6-HxCB	138/163/164	5830		20.7	5.19
2,3,3',4,4',6-/2,3,3',4,5,6-HxCB	158/160	510		20.7	5.19
2,2',3,3',4,5-HxCB	129	229		20.7	5.19
2,3,4,4',5,6-HxCB	166	ND		20.7	5.19
2,3,3',4,5,5'-HxCB	159	67.0		20.7	5.19
2,2',3,3',4,4'-/2,3,3',4',5,5'-HxCB	128/162	565		20.7	5.19
2,3',4,4',5,5'-HxCB	167	175		20.7	5.19
2,3,3',4,4',5-HxCB	156	396		20.7	4.13
2,3,3',4,4',5'-HxCB	157	82.8		20.7	6.07
3,3',4,4',5,5'-HxCB	169	ND		20.7	5.20

Sample ID: T3-GW-46

Project:	A5B1776	**Ceres ID:**	19229-002	**Date Received:**	5-Mar-25
Matrix:	Aqueous	**QC Batch #:**	3442	**Date Extracted:**	14-Mar-25
Date & Time Sampled:	2/27/2025 16:30	**Sample Size:**	0.965 L	**Analyzed Date:**	15-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2,2',3,4',5,6,6'-HpCB	188	ND		20.7	5.69
2,2',3,4,4',6,6'-HpCB	184	ND		20.7	5.69
2,2',3,3',5,6,6'-HpCB	179	750		20.7	5.69
2,2',3,3',4,6,6'-HpCB	176	197		20.7	5.69
2,2',3,4,5,6,6'-HpCB	186	ND		20.7	5.69
2,2',3,3',5,5',6-HpCB	178	334		20.7	5.69
2,2',3,3',4,5',6-HpCB	175	65.6		20.7	5.69
2,2',3,4,4',5,6'-/2,2',3,4',5,5',6-HpCB	182/187	1670		20.7	5.69
2,2',3,4,4',5',6-HpCB	183	776		20.7	5.69
2,2',3,4,5,5',6-HpCB	185	228	*	20.7	3.69
2,2',3,3',4,5,6'-HpCB	174	2060	*	20.7	3.69
2,2',3,4,4',5,6-HpCB	181	ND	*	20.7	3.69
2,2',3,3',4',5,6-HpCB	177	1260	*	20.7	3.69
2,2',3,3',4,4',6-HpCB	171	482	*	20.7	3.69
2,2',3,3',4,5,6-HpCB	173	43.5	*	20.7	3.69
2,2',3,3',4,5,5'-HpCB	172	316	*	20.7	3.69
2,3,3',4,5,5',6-HpCB	192	ND	*	20.7	3.69
2,2',3,4,4',5,5'-HpCB	180	4430	*	20.7	3.69
2,3,3',4',5,5',6-HpCB	193	175	*	20.7	3.69
2,3,3',4,4',5',6-HpCB	191	73.5	*	20.7	3.69
2,2',3,3',4,4',5-HpCB	170	1590	*	20.7	3.69
2,3,3',4,4',5,6-HpCB	190	309	*	20.7	3.69
2,3,3',4,4',5,5'-HpCB	189	69.1	*	20.7	3.69
2,2',3,3',5,5',6,6'-OcCB	202	211		20.7	4.31
2,2',3,3',4,5',6,6'-OcCB	201	149		20.7	4.31
2,2',3,4,4',5,6,6'-OcCB	204	ND		20.7	4.31
2,2',3,3',4,4',6,6'-OcCB	197	51.7		20.7	4.31
2,2',3,3',4,5,6,6'-OcCB	200	152		20.7	4.31
2,2',3,3',4,5,5',6-OcCB	198	62.6		20.7	4.31
2,2',3,3',4,5,5',6'-OcCB	199	1020		20.7	4.31
2,2',3,3',4,4',5,6'-/2,2',3,4,4',5,5',6-OcCB	196/203	1080		20.7	4.31
2,2',3,3',4,4',5,6-OcCB	195	533		20.7	7.16
2,2',3,3',4,4',5,5'-OcCB	194	1060		20.7	7.16
2,3,3',4,4',5,5',6-OcCB	205	51.5		20.7	7.16
2,2',3,3',4,5,5',6,6'-NoCB	208	191		20.7	3.75
2,2',3,3',4,4',5,6,6'-NoCB	207	77.4		20.7	3.75
2,2',3,3',4,4',5,5',6-NoCB	206	622		20.7	5.61
Decachlorobiphenyl	209	783		20.7	4.14

Sample ID: T3-GW-46

Project:	A5B1776	**Ceres ID:**	19229-002	**Date Received:**	5-Mar-25
Matrix:	Aqueous	**QC Batch #:**	3442	**Date Extracted:**	14-Mar-25
Date & Time Sampled:	2/27/2025 16:30	**Sample Size:**	0.965 L	**Analyzed Date:**	15-Mar-25

Totals	**Chlorination Level**	**Conc. (pg/L)**	**Qual.**	**RL**
Monochlorobiphenyl	MoCB	162		20.7
Dichlorobiphenyl	DiCB	3085		20.7
Trichlorobiphenyl	TrCB	22463		20.7
Tetrachlorobiphenyl	TeCB	30139		20.7
Pentachlorobiphenyl	PeCB	25731		20.7
Hexachlorobiphenyl	HxCB	27329		20.7
Heptachlorobiphenyl	HpCB	14828.7		20.7
Octachlorobiphenyl	OcCB	4370.8		20.7
Nonachlorobiphenyl	NoCB	890.4		20.7
Decachlorobiphenyl	DeCB	783		20.7

Labeled Standards	**Congener #**	**% Rec.**		**Limits**
$^{13}C_{12}$-2-MoCB	1	67.7		5-145
$^{13}C_{12}$-4-MoCB	3	61.8		5-145
$^{13}C_{12}$-2,2'-DiCB	4	63.7		5-145
$^{13}C_{12}$-4,4'-DiCB	15	47.3		5-145
$^{13}C_{12}$-2,2',6-TrCB	19	54.6		5-145
$^{13}C_{12}$-3,4,4'-TrCB	37	23.9		5-145
$^{13}C_{12}$-2,2',6,6'-TeCB	54	63.3		5-145
$^{13}C_{12}$-3,4,4',5-TeCB	81	58.7		10-145
$^{13}C_{12}$-3,3',4,4'-TeCB	77	60.1		10-145
$^{13}C_{12}$-2,2',4,6,6'-PeCB	104	57.5		10-145
$^{13}C_{12}$-2,3',4,4',5'-PeCB	123	65.7		10-145
$^{13}C_{12}$-2,3',4,4',5-PeCB	118	60.5		10-145
$^{13}C_{12}$-2,3,4,4',5-PeCB	114	53.3		10-145
$^{13}C_{12}$-2,3,3',4,4'-PeCB	105	51.5		10-145
$^{13}C_{12}$-3,3',4,4',5-PeCB	126	51.0		10-145
$^{13}C_{12}$-2,2',4,4',6,6'-HxCB	155	77.0		10-145
$^{13}C_{12}$-2,3',4,4',5,5'-HxCB	167	52.7		10-145
$^{13}C_{12}$-2,3,3',4,4',5-HxCB	156	52.4		10-145
$^{13}C_{12}$-2,3,3',4,4',5'-HxCB	157	40.5		10-145
$^{13}C_{12}$-3,3',4,4',5,5'-HxCB	169	44.0		10-145
$^{13}C_{12}$-2,2',3,4',5,6,6'-HpCB	188	72.0		10-145
$^{13}C_{12}$-2,3,3',4,4',5,5'-HpCB	189	55.6	*	10-145
$^{13}C_{12}$-2,2',3,3',5,5',6,6'-OcCB	202	55.1		10-145
$^{13}C_{12}$-2,3,3',4,4',5,5',6-OcCB	205	62.4		10-145
$^{13}C_{12}$-2,2',3,3',4,5,5',6,6'-NoCB	208	72.6		10-145
$^{13}C_{12}$-2,2',3,3',4,4',5,5',6-NoCB	206	70.4		10-145
$^{13}C_{12}$-Decachlorobiphenyl	209	58.7		10-145
Cleanup Standards				
$^{13}C_{12}$-2,4,4'-TrCB	28	44.5		5-145
$^{13}C_{12}$-2,3,3',5,5'-PeCB	111	83.9		10-145
$^{13}C_{12}$-2,2',3,3',5,5',6-HpCB	178	102		10-145

Section VI: Sample Tracking

SUBCONTRACT ORDER

Apex Laboratories

A5B1776

SENDING LABORATORY:

Apex Laboratories
6700 S.W. Sandburg Street
Tigard, OR 97223
Phone: (503) 718-2323
Fax: (503) 336-0745
Project Manager: Darrell Auvil

RECEIVING LABORATORY:

Ceres Analytical Laboratory, Inc
4919 Windplay Drive, Suite 1
El Dorado Hills, CA 95762
Phone :(916) 932-5011
Fax: -9

Sample Name: T3-GW-34 **Water** **Sampled: 02/27/25 13:30** (A5B1776-01)

Analysis	Due	Expires	Comments
1668C PCB Congeners (SUB)	03/13/25 17:00	02/27/26 13:30	
Containers Supplied:			
(J)1 L Amber Glass - Non Preserved			

Extra Sample, not listed on CoC.

Sample Name: T3-GW-46 **Water** **Sampled: 02/27/25 16:30** (A5B1776-02)

Analysis	Due	Expires	Comments
1668C PCB Congeners (SUB)	03/26/25 17:00	02/27/26 16:30	Ceres.
Containers Supplied:			
(J)1 L Amber Glass - Non Preserved			

Standard TAT

Released By	Date	Received By	Date
ZA	1430 3/4/25	UPS (Shipper)	
UPS (Shipper)			
Released By	Date	Received By	Date
			3/5/25 0981

Page 1 of 1

Sample Receipt Check List Logged by: JA (initials)

Ceres ID: 19229	Date/Time: 3/5/25 0901
Client Project ID: ASB 1776	Received Temp: 2.2 °C Acceptable: (Y) / N
Chain of Custody Relinquished by signed?	(Y) / N
Chain of Custody Received by signed?	(Y) / N
Custody Seals? Present?	Y / N
Intact?	Y / N
NA:	(NA)
Unlabeled / Illegible Samples	Y / (N)
Proper Containers:	(Y) / N
Preservation Acceptable (Chemical or Temperature)?	(Y) / N
Drinking Water, Sodium Thiosulfate present?	Y / (N) / NA
Residual Cl?	Y / (N) / NA
Aqueous sample pH: 7.7	NA
List COC discrepancies: JA 3/5/25	
List Damaged Samples: JA 3/5/25	

Section VII: Qualifiers/Abbreviations

J	Concentration found below the lower quantitation limit but greater than zero.
B	Analyte present in the associated Method Blank.
E	Concentration found exceeds the Calibration range of the HRGC/HRMS.
D	This analyte concentration was calculated from a dilution.
X	The concentration found is the estimated maximum possible concentration due to chlorinated diphenyl ethers present in the sample.
H	Recovery limits exceeded. See cover letter.
*****	Results taken from dilution.
I	Interference. See cover letter.
Conc.	Concentration Found
DL	Calculated Detection Limit
ND	Non-Detect
% Rec.	Percent Recovery

March 14, 2025 Service Request No:K2502372

Darrell Auvil
Apex Laboratories
6700 SW Sandburg St.
Tigard, OR 97223

Laboratory Results for: A5B1776

Dear Darrell,

Enclosed are the results of the sample(s) submitted to our laboratory March 06, 2025
For your reference, these analyses have been assigned our service request number **K2502372.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3260. You may also contact me via email at Luke.Rahn@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Luke Rahn
Project Manager

ADDRESS 1317 S. 13th Avenue, Kelso, WA 98626
PHONE +1 360 577 7222 | FAX +1 360 636 1068
ALS Group USA, Corp.
dba ALS Environmental

Narrative Documents

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

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Client: Apex Laboratories
Project: A5B1776
Sample Matrix: Water

Service Request: K2502372
Date Received: 03/06/2025

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

Two water samples were received for analysis at ALS Environmental on 03/06/2025. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

General Chemistry:

No significant anomalies were noted with this analysis.

Approved by _____ Date 03/14/2025

SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: T3-GW-34			Lab ID: K2502372-001			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Carbon, Total Organic	7.6		0.4	2.0	mg/L	SM 5310 C

CLIENT ID: T3-GW-46			Lab ID: K2502372-002			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Carbon, Total Organic	7.0		0.8	5.0	mg/L	SM 5310 C

Sample Receipt Information

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

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Client: Apex Laboratories **Service Request:**K2502372

Project: A5B1776

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
K2502372-001	T3-GW-34	2/27/2025	1330
K2502372-002	T3-GW-46	2/27/2025	1630

SUBCONTRACT ORDER 12502372

Apex Laboratories

A5B1776

SENDING LABORATORY:	**RECEIVING LABORATORY:**
Apex Laboratories 6700 S.W. Sandburg Street Tigard, OR 97223 Phone: (503) 718-2323 Fax: (503) 336-0745 Project Manager: Darrell Auvil	ALS Group USA - Kelso 1317 S 13th Avenue Kelso, WA 98626 Phone :(360) 577-7222 Fax: (360) 636-1068

Sample Name: T3-GW-34 **Sampled: 02/27/25 13:30** (A5B1776-01)

Analysis	Due	Expires	Comments
Total Organic Carbon - H2O (5310C) *Containers Supplied:* (E)250 mL Poly - Sulfuric (H2SO4)	03/13/25 17:00	03/27/25 13:30	

Extra Sample, not listed on CoC.

Sample Name: T3-GW-46 **Sampled: 02/27/25 16:30** (A5B1776-02)

Analysis	Due	Expires	Comments
Total Organic Carbon - H2O (5310C) *Containers Supplied:* (E)250 mL Poly - Sulfuric (H2SO4)	03/13/25 17:00	03/27/25 16:30	

Standard TAT

Released By	Date	Received By	Date
	3/4/25 0829	Diane Poe	3/4/25 0829
Diane Poe	3/4/25 1225		03/04/25 1225

Cooler Receipt and Preservation Form

PM LR

Client Apex Service Request K25 02372

Received: 03 06 2025 Opened: 03 06 2025 By: AO Unloaded: 03 06 2025 By: AO

1. Samples were received via? *USPS* *Fed Ex* *UPS* *DHL* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) *Cooler* *Box* *Envelope* *Other* _____ *NA*
3. Were custody seals on coolers? NA Y N If yes, how many and where? _____
   If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Temp Blank	Sample Temp	IR Gun	Cooler #/COC ID /NA	Out of temp Indicate with "X"	PM Notified If out of temp	Tracking Number NA	Filed
—	3.1	IR06					

4. Was a Temperature Blank present in cooler? NA Y N If yes, notate the temperature in the appropriate column below:
   If no, take the temperature of a representative sample bottle contained within the cooler; notate in the column "Sample Temp":
5. Were samples received within the method specified temperature ranges? NA Y N
   If no, were they received on ice and same day as collected? If not, notate the cooler # below and notify the PM. NA Y N

If applicable, tissue samples were received: *Frozen* *Partially Thawed* *Thawed*

6. Packing material: *Inserts* *Baggies* *Bubble Wrap* *Gel Packs* *Wet Ice* *Dry Ice* *Sleeves* _____
7. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
8. Were samples received in good condition (unbroken) NA Y N
9. Were all sample labels complete (ie, analysis, preservation, etc.)? NA Y N
10. Did all sample labels and tags agree with custody papers? NA Y N
11. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
12. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* NA Y N
13. Were VOA vials received without headspace? *Indicate in the table below.* NA Y N
14. Was C12/Res negative? NA Y N
15. Were samples received within method specified time limit? If not, notate the error below and notify the PM. NA Y N
16. Were 100mL sterile microbiology bottles filled exactly to the 100mL mark? NA Y N Underfilled Overfilled

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count Bottle Type	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, Resolutions: _____

Q:\ENVIRONMENTAL\1 SOP & Policy Statements\SMO\CRF Update 2025-02-28.docx Updated: BJD 2/28/25

Miscellaneous Forms

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Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated value.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.
H	The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

#	The control limit criteria is not applicable.
J	The result is an estimated value.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.
Q	See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimated value over the calibration range.
J	The result is an estimated value between the MDL and the MRL.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses

Agency	Web Site	Number
Alaska DEH	http://dec.alaska.gov/eh/lab/cs/csapproval.htm	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L16-58-R4
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	http://health.hawaii.gov/	-
ISO 17025	http://www.pjlabs.com/	L16-57
Louisiana DEQ	http://www.deq.louisiana.gov/page/la-lab-accreditation	03016
Maine DHS	http://www.maine.gov/dhhs/	WA01276
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/enforcement/oqa.html	WA005
New York - DOH	https://www.wadsworth.org/regulatory/elap	12060
North Carolina DEQ	https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/EnvironmentalLabCertification/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wyoming (EPA Region 8)	https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water-	-
Kelso Laboratory Website	[illegible]	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.
Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/anlayte is offered by that state.

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Analyst Summary report

Client:	Apex Laboratories	**Service Request:**	K2502372
Project:	A5B1776/		

Sample Name:	T3-GW-34	**Date Collected:**	02/27/25
Lab Code:	K2502372-001	**Date Received:**	03/6/25
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
SM 5310 C		MSPECHT

Sample Name:	T3-GW-46	**Date Collected:**	02/27/25
Lab Code:	K2502372-002	**Date Received:**	03/6/25
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
SM 5310 C		MSPECHT

Sample Results

ALS Environmental—Kelso Laboratory
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Analytical Report

Client:	Apex Laboratories	**Service Request:**	K2502372
Project:	A5B1776	**Date Collected:**	02/27/25 13:30
Sample Matrix:	Water	**Date Received:**	03/06/25 12:25
Sample Name:	T3-GW-34	**Basis:**	NA
Lab Code:	K2502372-001		

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Carbon, Total Organic	SM 5310 C	**7.6**	mg/L	2.0	0.4	4	03/12/25 14:33	

Analytical Report

Client:	Apex Laboratories	**Service Request:**	K2502372
Project:	A5B1776	**Date Collected:**	02/27/25 16:30
Sample Matrix:	Water	**Date Received:**	03/06/25 12:25
Sample Name:	T3-GW-46	**Basis:**	NA
Lab Code:	K2502372-002		

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Carbon, Total Organic	SM 5310 C	**7.0**	mg/L	5.0	0.8	10	03/12/25 14:33	

QC Summary Forms

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Analytical Report

Client:	Apex Laboratories	**Service Request:**	K2502372
Project:	A5B1776	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	K2502372-MB		

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Carbon, Total Organic	SM 5310 C	ND U	mg/L	0.50	0.08	1	03/12/25 14:33	

Client:	Apex Laboratories	**Service Request:**	K2502372
Project:	A5B1776	**Date Analyzed:**	03/12/25
Sample Matrix:	Water	**Date Extracted:**	NA

Lab Control Sample Summary
Carbon, Total Organic

Analysis Method:	SM 5310 C	**Units:**	mg/L
Prep Method:	None	**Basis:**	NA
		Analysis Lot:	872500

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K2502372-LCS	24.1	25.0	96	83-117

Apex Laboratories, LLC
6700 S.W. Sandburg Street
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503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

AMENDED REPORT

Thursday, May 29, 2025

Steve Misner
Apex Companies, LLC
15618 SW 72nd Ave
Tigard, OR 97224

RE: A5B1800 - Willamette Cove GW Source Control - 1056-17

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 A5B1800, which was received by the laboratory on 2/28/2025 at 2:47:00PM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: DAuvil@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 3.6 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

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Darrell Auvil, Client Services Manager

Apex Laboratories, LLC
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ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW Source Control**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5B1800 - 05 29 25 1557**

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
T3-GW-58	**A5B1800-01**	**Water**	**02/28/25 12:30**	**02/28/25 14:47**

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ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW Source Control**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5B1800 - 05 29 25 1557**

ANALYTICAL CASE NARRATIVE

A5B1800 **Apex Laboratories**

Amended Report Revision 1: This report supersedes all previous reports.

Reporting the Detection Limits (DL)-

The final report has been amended to report both PAH data by EPA 8270E and Chlorinated Pesticides by EPA 8081B to the detection limits (DL).

Darrell Auvil
Client Services Manager
5/29/2025

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ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW Source Control**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5B1800 - 05 29 25 1557**

ANALYTICAL SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
T3-GW-58 (A5B1800-01RE1)				**Matrix: Water**		**Batch: 25C0330**		**C-05, DCNT**
2,4'-DDD	ND	0.0106	0.0213	ug/L	1	03/11/25 15:56	EPA 8081B	
2,4'-DDE	ND	0.0106	0.0213	ug/L	1	03/11/25 15:56	EPA 8081B	
2,4'-DDT	ND	0.0106	0.0213	ug/L	1	03/11/25 15:56	EPA 8081B	
4,4'-DDD	ND	0.0106	0.0213	ug/L	1	03/11/25 15:56	EPA 8081B	
4,4'-DDE	ND	0.0106	0.0213	ug/L	1	03/11/25 15:56	EPA 8081B	
4,4'-DDT	ND	0.0106	0.0213	ug/L	1	03/11/25 15:56	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr)		*Recovery:*	*54 %*	*Limits: 25-140 %*	*1*	*03/11/25 15:56*	*EPA 8081B*	
Decachlorobiphenyl (Surr)			*85 %*	*30-135 %*	*1*	*03/11/25 15:56*	*EPA 8081B*	

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ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW Source Control**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5B1800 - 05 29 25 1557**

ANALYTICAL SAMPLE RESULTS

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
T3-GW-58 (A5B1800-01)				**Matrix: Water**		**Batch: 25C0168**		**DCNT**
Acenaphthene	**0.102**	0.0182	0.0364	ug/L	1	03/05/25 18:27	EPA 8270E LVI	
Acenaphthylene	ND	0.0182	0.0364	ug/L	1	03/05/25 18:27	EPA 8270E LVI	Q-30
Anthracene	**0.0282**	0.0182	0.0364	ug/L	1	03/05/25 18:27	EPA 8270E LVI	**J**
Benz(a)anthracene	**0.0150**	0.00910	0.0182	ug/L	1	03/05/25 18:27	EPA 8270E LVI	**J**
Benzo(a)pyrene	ND	0.00910	0.0182	ug/L	1	03/05/25 18:27	EPA 8270E LVI	
Benzo(b)fluoranthene	ND	0.00910	0.0182	ug/L	1	03/05/25 18:27	EPA 8270E LVI	
Benzo(k)fluoranthene	ND	0.00910	0.0182	ug/L	1	03/05/25 18:27	EPA 8270E LVI	
Benzo(g,h,i)perylene	ND	0.0182	0.0364	ug/L	1	03/05/25 18:27	EPA 8270E LVI	
Chrysene	**0.0141**	0.00910	0.0182	ug/L	1	03/05/25 18:27	EPA 8270E LVI	**J**
Dibenz(a,h)anthracene	ND	0.00910	0.0182	ug/L	1	03/05/25 18:27	EPA 8270E LVI	
Fluoranthene	**0.0460**	0.0182	0.0364	ug/L	1	03/05/25 18:27	EPA 8270E LVI	
Fluorene	**0.0551**	0.0182	0.0364	ug/L	1	03/05/25 18:27	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	**0.0109**	0.00910	0.0182	ug/L	1	03/05/25 18:27	EPA 8270E LVI	**J**
1-Methylnaphthalene	ND	0.0364	0.0728	ug/L	1	03/05/25 18:27	EPA 8270E LVI	
2-Methylnaphthalene	**0.0369**	0.0364	0.0728	ug/L	1	03/05/25 18:27	EPA 8270E LVI	**J**
Naphthalene	**0.155**	0.0364	0.0728	ug/L	1	03/05/25 18:27	EPA 8270E LVI	
Phenanthrene	**0.166**	0.0364	0.0728	ug/L	1	03/05/25 18:27	EPA 8270E LVI	
Pyrene	**0.0669**	0.0182	0.0364	ug/L	1	03/05/25 18:27	EPA 8270E LVI	
Dibenzofuran	ND	0.0182	0.0364	ug/L	1	03/05/25 18:27	EPA 8270E LVI	
Surrogate: Acenaphthylene-d8 (Surr)		*Recovery:*	*82 %*	*Limits:*	*78-134 %*	*03/05/25 18:27*	*EPA 8270E LVI*	
Benzo(a)pyrene-d12 (Surr)			*104 %*		*80-132 %*	*03/05/25 18:27*	*EPA 8270E LVI*	

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Darrell Auvil, Client Services Manager

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ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW Source Control**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5B1800 - 05 29 25 1557**

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
T3-GW-58 (A5B1800-01)				**Matrix: Water**				
Batch: 25C0929								
Arsenic	**13.5**	---	1.00	ug/L	1	03/24/25 21:58	EPA 6020B	
Manganese	**1500**	---	1.00	ug/L	1	03/24/25 21:58	EPA 6020B	
T3-GW-58 (A5B1800-01RE1)				**Matrix: Water**				
Batch: 25C0929								
Iron	**64100**	---	500	ug/L	10	03/25/25 15:10	EPA 6020B	

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ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW Source Control**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5B1800 - 05 29 25 1557**

ANALYTICAL SAMPLE RESULTS

Dissolved Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
T3-GW-58 (A5B1800-01)				**Matrix: Water**				
Batch: 25C0640								
Arsenic	ND	---	1.00	ug/L	1	03/18/25 01:26	EPA 6020B (Diss)	
Iron	**97.6**	---	50.0	ug/L	1	03/18/25 01:26	EPA 6020B (Diss)	
Manganese	**183**	---	1.00	ug/L	1	03/18/25 01:26	EPA 6020B (Diss)	

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ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW Source Control**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5B1800 - 05 29 25 1557**

ANALYTICAL SAMPLE RESULTS

Anions by Ion Chromatography

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
T3-GW-58 (A5B1800-01)				**Matrix: Water**				
Batch: 25B0962								
Nitrate-Nitrogen	**2.76**	---	0.250	mg/L	1	02/28/25 20:41	EPA 300.0	
Sulfate	**11.4**	---	1.00	mg/L	1	02/28/25 20:41	EPA 300.0	

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Apex Companies, LLC	Project: **Willamette Cove GW Source Control**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5B1800 - 05 29 25 1557**

QUALITY CONTROL (QC) SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25C0330 - EPA 3510C (Neutral pH)/3640A (GPC)												**Water**
Blank (25C0330-BLK1)			Prepared: 03/06/25 11:42		Analyzed: 03/11/25 14:30							**C-05**
EPA 8081B												
2,4'-DDD	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
2,4'-DDE	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
2,4'-DDT	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
4,4'-DDD	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
4,4'-DDE	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
4,4'-DDT	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 44 %*		*Limits: 25-140 %*				*Dilution: 1x*			
Decachlorobiphenyl (Surr)			*83 %*		*30-135 %*				*"*			
LCS (25C0330-BS1)			Prepared: 03/06/25 11:42		Analyzed: 03/11/25 14:47							**C-05**
EPA 8081B												
2,4'-DDD	0.553	0.0100	0.0200	ug/L	1	0.500	---	111	66-120%	---	---	
2,4'-DDE	0.455	0.0100	0.0200	ug/L	1	0.500	---	91	55-120%	---	---	
2,4'-DDT	0.602	0.0100	0.0200	ug/L	1	0.500	---	120	62-127%	---	---	
4,4'-DDD	0.553	0.0100	0.0200	ug/L	1	0.500	---	111	56-143%	---	---	
4,4'-DDE	0.460	0.0100	0.0200	ug/L	1	0.500	---	92	57-135%	---	---	
4,4'-DDT	0.603	0.0100	0.0200	ug/L	1	0.500	---	121	51-143%	---	---	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 39 %*		*Limits: 25-140 %*				*Dilution: 1x*			
Decachlorobiphenyl (Surr)			*75 %*		*30-135 %*				*"*			
LCS Dup (25C0330-BSD1)			Prepared: 03/06/25 11:42		Analyzed: 03/11/25 15:05							**C-05, Q-19**
EPA 8081B												
2,4'-DDD	0.569	0.0100	0.0200	ug/L	1	0.500	---	114	66-120%	3	30%	
2,4'-DDE	0.478	0.0100	0.0200	ug/L	1	0.500	---	96	55-120%	5	30%	
2,4'-DDT	0.622	0.0100	0.0200	ug/L	1	0.500	---	124	62-127%	3	30%	
4,4'-DDD	0.573	0.0100	0.0200	ug/L	1	0.500	---	115	56-143%	3	30%	
4,4'-DDE	0.498	0.0100	0.0200	ug/L	1	0.500	---	100	57-135%	8	30%	
4,4'-DDT	0.623	0.0100	0.0200	ug/L	1	0.500	---	125	51-143%	3	30%	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 45 %*		*Limits: 25-140 %*				*Dilution: 1x*			
Decachlorobiphenyl (Surr)			*83 %*		*30-135 %*				*"*			

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Apex Companies, LLC	Project: **Willamette Cove GW Source Control**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5B1800 - 05 29 25 1557**

QUALITY CONTROL (QC) SAMPLE RESULTS

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25C0168 - EPA 3511 (Bottle Extraction)								**Water**				
Blank (25C0168-BLK1)			Prepared: 03/05/25 09:42 Analyzed: 03/05/25 14:21									
EPA 8270E LVI												
Acenaphthene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Acenaphthylene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	Q-30
Anthracene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Benz(a)anthracene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Chrysene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Fluoranthene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Fluorene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
1-Methylnaphthalene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
2-Methylnaphthalene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
Phenanthrene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
Pyrene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Carbazole	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Dibenzofuran	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Surr: Acenaphthylene-d8 (Surr)			*Recovery: 81 %*		*Limits: 78-134 %*				*Dilution: 1x*			
Benzo(a)pyrene-d12 (Surr)			*99 %*		*80-132 %*				*"*			
LCS (25C0168-BS1)			Prepared: 03/05/25 09:42 Analyzed: 03/05/25 14:56									
EPA 8270E LVI												
Acenaphthene	1.54	0.0160	0.0320	ug/L	1	1.60	---	96	80-120%	---	---	
Acenaphthylene	1.36	0.0160	0.0320	ug/L	1	1.60	---	85	80-124%	---	---	Q-30
Anthracene	1.43	0.0160	0.0320	ug/L	1	1.60	---	90	80-123%	---	---	
Benz(a)anthracene	1.50	0.00800	0.0160	ug/L	1	1.60	---	94	80-122%	---	---	
Benzo(a)pyrene	1.60	0.00800	0.0160	ug/L	1	1.60	---	100	80-129%	---	---	
Benzo(b)fluoranthene	1.49	0.00800	0.0160	ug/L	1	1.60	---	93	80-124%	---	---	
Benzo(k)fluoranthene	1.53	0.00800	0.0160	ug/L	1	1.60	---	96	80-125%	---	---	
Benzo(g,h,i)perylene	1.40	0.0160	0.0320	ug/L	1	1.60	---	88	80-120%	---	---	

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Darrell Auvil, Client Services Manager

Apex Laboratories, LLC

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

Apex Companies, LLC	Project: **Willamette Cove GW Source Control**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5B1800 - 05 29 25 1557**

QUALITY CONTROL (QC) SAMPLE RESULTS

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25C0168 - EPA 3511 (Bottle Extraction)							**Water**					
LCS (25C0168-BS1)			Prepared: 03/05/25 09:42 Analyzed: 03/05/25 14:56									
Chrysene	1.41	0.00800	0.0160	ug/L	1	1.60	---	88	80-120%	---	---	
Dibenz(a,h)anthracene	1.43	0.00800	0.0160	ug/L	1	1.60	---	90	80-120%	---	---	
Fluoranthene	1.39	0.0160	0.0320	ug/L	1	1.60	---	87	80-126%	---	---	
Fluorene	1.63	0.0160	0.0320	ug/L	1	1.60	---	102	77-127%	---	---	
Indeno(1,2,3-cd)pyrene	1.38	0.00800	0.0160	ug/L	1	1.60	---	86	80-121%	---	---	
1-Methylnaphthalene	1.36	0.0320	0.0640	ug/L	1	1.60	---	85	53-148%	---	---	
2-Methylnaphthalene	1.37	0.0320	0.0640	ug/L	1	1.60	---	85	48-150%	---	---	
Naphthalene	1.53	0.0320	0.0640	ug/L	1	1.60	---	96	78-120%	---	---	
Phenanthrene	1.42	0.0320	0.0640	ug/L	1	1.60	---	89	80-120%	---	---	
Pyrene	1.37	0.0160	0.0320	ug/L	1	1.60	---	86	80-125%	---	---	
Carbazole	1.67	0.0160	0.0320	ug/L	1	1.60	---	104	65-141%	---	---	
Dibenzofuran	1.41	0.0160	0.0320	ug/L	1	1.60	---	88	76-121%	---	---	
Surr: Acenaphthylene-d8 (Surr)			*Recovery: 80 %*		*Limits: 78-134 %*			*Dilution: 1x*				
Benzo(a)pyrene-d12 (Surr)			*98 %*		*80-132 %*			*"*				
LCS Dup (25C0168-BSD1)			Prepared: 03/05/25 09:42 Analyzed: 03/05/25 15:31									**Q-19**
EPA 8270E LVI												
Acenaphthene	1.43	0.0160	0.0320	ug/L	1	1.60	---	89	80-120%	8	30%	
Acenaphthylene	1.24	0.0160	0.0320	ug/L	1	1.60	---	**78**	**80-124%**	9	30%	Q-30
Anthracene	1.32	0.0160	0.0320	ug/L	1	1.60	---	83	80-123%	8	30%	
Benz(a)anthracene	1.38	0.00800	0.0160	ug/L	1	1.60	---	86	80-122%	8	30%	
Benzo(a)pyrene	1.47	0.00800	0.0160	ug/L	1	1.60	---	92	80-129%	8	30%	
Benzo(b)fluoranthene	1.41	0.00800	0.0160	ug/L	1	1.60	---	88	80-124%	6	30%	
Benzo(k)fluoranthene	1.41	0.00800	0.0160	ug/L	1	1.60	---	88	80-125%	8	30%	
Benzo(g,h,i)perylene	1.30	0.0160	0.0320	ug/L	1	1.60	---	82	80-120%	7	30%	
Chrysene	1.29	0.00800	0.0160	ug/L	1	1.60	---	81	80-120%	9	30%	
Dibenz(a,h)anthracene	1.33	0.00800	0.0160	ug/L	1	1.60	---	83	80-120%	8	30%	
Fluoranthene	1.30	0.0160	0.0320	ug/L	1	1.60	---	81	80-126%	7	30%	
Fluorene	1.51	0.0160	0.0320	ug/L	1	1.60	---	95	77-127%	8	30%	
Indeno(1,2,3-cd)pyrene	1.28	0.00800	0.0160	ug/L	1	1.60	---	80	80-121%	7	30%	
1-Methylnaphthalene	1.32	0.0320	0.0640	ug/L	1	1.60	---	82	53-148%	3	30%	
2-Methylnaphthalene	1.29	0.0320	0.0640	ug/L	1	1.60	---	81	48-150%	5	30%	
Naphthalene	1.43	0.0320	0.0640	ug/L	1	1.60	---	89	78-120%	7	30%	
Phenanthrene	1.32	0.0320	0.0640	ug/L	1	1.60	---	83	80-120%	7	30%	

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ORELAP ID: **OR100062**

Apex Companies, LLC	Project: **Willamette Cove GW Source Control**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5B1800 - 05 29 25 1557**

QUALITY CONTROL (QC) SAMPLE RESULTS

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25C0168 - EPA 3511 (Bottle Extraction)							**Water**					
LCS Dup (25C0168-BSD1)			Prepared: 03/05/25 09:42		Analyzed: 03/05/25 15:31							**Q-19**
Pyrene	1.27	0.0160	0.0320	ug/L	1	1.60	---	80	80-125%	7	30%	
Carbazole	1.53	0.0160	0.0320	ug/L	1	1.60	---	96	65-141%	9	30%	
Dibenzofuran	1.31	0.0160	0.0320	ug/L	1	1.60	---	82	76-121%	8	30%	
Surr: Acenaphthylene-d8 (Surr)			*Recovery: 78 %*		*Limits: 78-134 %*				*Dilution: 1x*			
Benzo(a)pyrene-d12 (Surr)			*98 %*		*80-132 %*				*"*			

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Tigard, OR 97224	Project Manager: **Steve Misner**	**A5B1800 - 05 29 25 1557**

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 25C0929 - EPA 3015A									Water			
Blank (25C0929-BLK1)			Prepared: 03/24/25 09:01		Analyzed: 03/24/25 21:47							
EPA 6020B												
Arsenic	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Iron	ND	---	50.0	ug/L	1	---	---	---	---	---	---	
Manganese	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
LCS (25C0929-BS1)			Prepared: 03/24/25 09:01		Analyzed: 03/24/25 21:52							
EPA 6020B												
Arsenic	57.2	---	1.00	ug/L	1	55.6	---	103	80-120%	---	---	
Iron	5670	---	50.0	ug/L	1	5560	---	102	80-120%	---	---	
Manganese	57.1	---	1.00	ug/L	1	55.6	---	103	80-120%	---	---	
Duplicate (25C0929-DUP1)			Prepared: 03/24/25 09:01		Analyzed: 03/24/25 22:08							
QC Source Sample: Non-SDG (A5C0942-01)												
Arsenic	**38.2**	---	1.00	ug/L	1	---	22.3	---	---	**53**	**20%**	Q-04
Duplicate (25C0929-DUP2)			Prepared: 03/24/25 09:01		Analyzed: 03/25/25 15:21							
QC Source Sample: Non-SDG (A5C0942-01RE1)												
Iron	**202000**	---	500	ug/L	10	---	149000	---	---	**30**	**20%**	Q-04, Q-16
Manganese	**5090**	---	10.0	ug/L	10	---	5120	---	---	0.4	20%	Q-16
Matrix Spike (25C0929-MS1)			Prepared: 03/24/25 09:01		Analyzed: 03/24/25 22:14							
QC Source Sample: Non-SDG (A5C0942-01)												
EPA 6020B												
Arsenic	81.4	---	1.00	ug/L	1	55.6	22.3	106	75-125%	---	---	
Iron	169000	---	50.0	ug/L	1	5560	142000	**490**	**75-125%**	---	---	E, Q-65
Manganese	4950	---	1.00	ug/L	1	55.6	4800	**268**	**75-125%**	---	---	E, Q-65

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Apex Companies, LLC	Project: **Willamette Cove GW Source Control**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5B1800 - 05 29 25 1557**

QUALITY CONTROL (QC) SAMPLE RESULTS

Dissolved 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 25C0640 - Matrix Matched Direct Inject									Water			
Blank (25C0640-BLK1)			Prepared: 03/17/25 10:33		Analyzed: 03/18/25 00:26							
EPA 6020B (Diss)												
Arsenic	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Iron	ND	---	50.0	ug/L	1	---	---	---	---	---	---	
Manganese	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
LCS (25C0640-BS1)			Prepared: 03/17/25 10:33		Analyzed: 03/18/25 00:32							
EPA 6020B (Diss)												
Arsenic	54.0	---	1.00	ug/L	1	55.6	---	97	80-120%	---	---	
Iron	5830	---	50.0	ug/L	1	5560	---	105	80-120%	---	---	
Manganese	56.0	---	1.00	ug/L	1	55.6	---	101	80-120%	---	---	
Duplicate (25C0640-DUP1)			Prepared: 03/17/25 10:33		Analyzed: 03/18/25 00:54							
QC Source Sample: Non-SDG (A5B1416-01)												
Arsenic	ND	---	1.00	ug/L	1	---	0.556	---	---	***	20%	
Iron	**53.7**	---	50.0	ug/L	1	---	81.8	---	---	**41**	**20%**	Q-05
Manganese	**3.93**	---	1.00	ug/L	1	---	4.00	---	---	2	20%	
Matrix Spike (25C0640-MS1)			Prepared: 03/17/25 10:33		Analyzed: 03/18/25 00:59							
QC Source Sample: Non-SDG (A5B1416-01)												
EPA 6020B (Diss)												
Arsenic	53.7	---	1.00	ug/L	1	55.6	0.556	96	75-125%	---	---	
Iron	6420	---	50.0	ug/L	1	5560	81.8	114	75-125%	---	---	
Manganese	58.7	---	1.00	ug/L	1	55.6	4.00	99	75-125%	---	---	

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503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW Source Control**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5B1800 - 05 29 25 1557**

QUALITY CONTROL (QC) SAMPLE RESULTS

Anions by Ion Chromatography

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25B0962 - Method Prep: Aq							**Water**					
Blank (25B0962-BLK1)			Prepared: 02/28/25 17:45		Analyzed: 02/28/25 19:15							
EPA 300.0												
Nitrate-Nitrogen	ND	---	0.250	mg/L	1	---	---	---	---	---	---	
Sulfate	ND	---	1.00	mg/L	1	---	---	---	---	---	---	
LCS (25B0962-BS1)			Prepared: 02/28/25 17:45		Analyzed: 02/28/25 19:36							
EPA 300.0												
Nitrate-Nitrogen	1.98	---	0.250	mg/L	1	2.00	---	99	90-110%	---	---	
Sulfate	7.85	---	1.00	mg/L	1	8.00	---	98	90-110%	---	---	
Duplicate (25B0962-DUP1)			Prepared: 02/28/25 17:45		Analyzed: 02/28/25 23:34							
QC Source Sample: Non-SDG (A5B1755-01)												
Nitrate-Nitrogen	**0.390**	---	0.250	mg/L	1	---	0.390	---	---	0.2	10%	
Sulfate	**25.7**	---	1.00	mg/L	1	---	25.7	---	---	0.1	10%	
Matrix Spike (25B0962-MS1)			Prepared: 02/28/25 17:45		Analyzed: 02/28/25 23:55							
QC Source Sample: Non-SDG (A5B1755-01)												
EPA 300.0												
Nitrate-Nitrogen	2.88	---	0.312	mg/L	1	2.50	0.390	99	87-112%	---	---	
Sulfate	35.5	---	1.25	mg/L	1	10.0	25.7	98	88-115%	---	---	

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15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
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SAMPLE PREPARATION INFORMATION

Organochlorine Pesticides by EPA 8081B

Prep: EPA 3510C (Neutral pH)/3640A (GPC)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25C0330							
A5B1800-01RE1	Water	EPA 8081B	02/28/25 12:30	03/06/25 11:42	940mL/10mL	1000mL/5mL	2.13

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Prep: EPA 3511 (Bottle Extraction)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25C0168							
A5B1800-01	Water	EPA 8270E LVI	02/28/25 12:30	03/05/25 09:42	109.88mL/5mL	125mL/5mL	1.14

Total Metals by EPA 6020B (ICPMS)

Prep: EPA 3015A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25C0929							
A5B1800-01	Water	EPA 6020B	02/28/25 12:30	03/24/25 09:01	45mL/50mL	45mL/50mL	1.00
A5B1800-01RE1	Water	EPA 6020B	02/28/25 12:30	03/24/25 09:01	45mL/50mL	45mL/50mL	1.00

Dissolved Metals by EPA 6020B (ICPMS)

Prep: Matrix Matched Direct Inject

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25C0640							
A5B1800-01	Water	EPA 6020B (Diss)	02/28/25 12:30	03/17/25 10:33	45mL/50mL	45mL/50mL	1.00

Anions by Ion Chromatography

Prep: Method Prep: Aq

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25B0962							
A5B1800-01	Water	EPA 300.0	02/28/25 12:30	02/28/25 17:45	5mL/5mL	5mL/5mL	1.00

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QUALIFIER DEFINITIONS

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

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C-05	Extract has undergone a GPC (Gel-Permeation Chromatography) cleanup per EPA 3640A. Reporting levels may be raised due to dilution necessary for cleanup. Sample Final Volume includes the GPC dilution factor, see the Prep page for details.
DCNT	Sample decanted due to the presence of sediment in water samples, or water in sediment or soil samples. (Note: Decanted aqueous sample bottles are not solvent rinsed.)
E	Estimated Value. The result is above the calibration range of the instrument.
J	Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified DL.
Q-04	Spike recovery and/or RPD is outside control limits due to a non-homogeneous sample matrix.
Q-05	Analyses are not controlled on RPD values from sample and duplicate concentrations that are below 5 times the reporting level.
Q-16	Reanalysis of an original Batch QC sample.
Q-19	Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis.
Q-30	Recovery for Lab Control Spike (LCS) is below the lower control limit. Data may be biased low.
Q-65	Spike recovery is estimated due to the high analyte concentration of the source sample.

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Apex Companies, LLC	Project: **Willamette Cove GW Source Control**	
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Tigard, OR 97224	Project Manager: **Steve Misner**	**A5B1800 - 05 29 25 1557**

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)

Validated 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 and Detection Limits: Default Limits

Default Reporting and Detection Limits are based on 100% dry weight with the minimum dilution for the analysis. Reporting and Detection Limits are raised due to moisture content, additional dilutions required for analysis, matrix interferences and in other cases, as necessary.

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).

Apex Laboratories

Darrell Auvil, Client Services Manager

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Apex Laboratories, LLC

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

Apex Companies, LLC	Project: **Willamette Cove GW Source Control**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5B1800 - 05 29 25 1557**

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to one half of the Reporting Limit (RL).
Blank results for gravimetric analyses are evaluated to the Reporting Level, not to half of the Reporting Level.
-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.

Apex Laboratories

Darrell Auvil, Client Services Manager

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Tigard, OR 97224	Project Manager:	**Steve Misner**	**A5B1800 - 05 29 25 1557**

Decanted Samples:

Soils/Sediments:
Unless TCLP analysis is required or there is notification otherwise for a specific project, all Soil and Sediments containing excess water are decanted prior to analysis in order to provide the most representative sample for analysis.

Water Samples:
Water samples containing solids and sediment may need to be decanted in order to eliminate these particulates from the water extractions. In the case of organics extractions, a solvent rinse of the container will not be performed.

Volatiles Soils (5035s)
Samples that are field preserved by 5035 for volatiles are dry weight corrected using the same dry weight corretion as for normal analyses. In the case of decanted samples, the dry weight may be performed on a decanted sample, while the aliquot for 5035 may not have been treated the same way. If this is a concern, please submit separate containers for dry weight analysis for volatiles can be provided.

All samples decanted in the laboratory are noted in this report with the DCNT qualifier indicating the sample was decanted.

Apex Laboratories

Darrell Auvil, Client Services Manager

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Apex Companies, LLC	Project: **Willamette Cove GW Source Control**	
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Tigard, OR 97224	Project Manager: **Steve Misner**	**A5B1800 - 05 29 25 1557**

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

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

Secondary Accreditations

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

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.
Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

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

Apex Laboratories

Darrell Auvil, Client Services Manager

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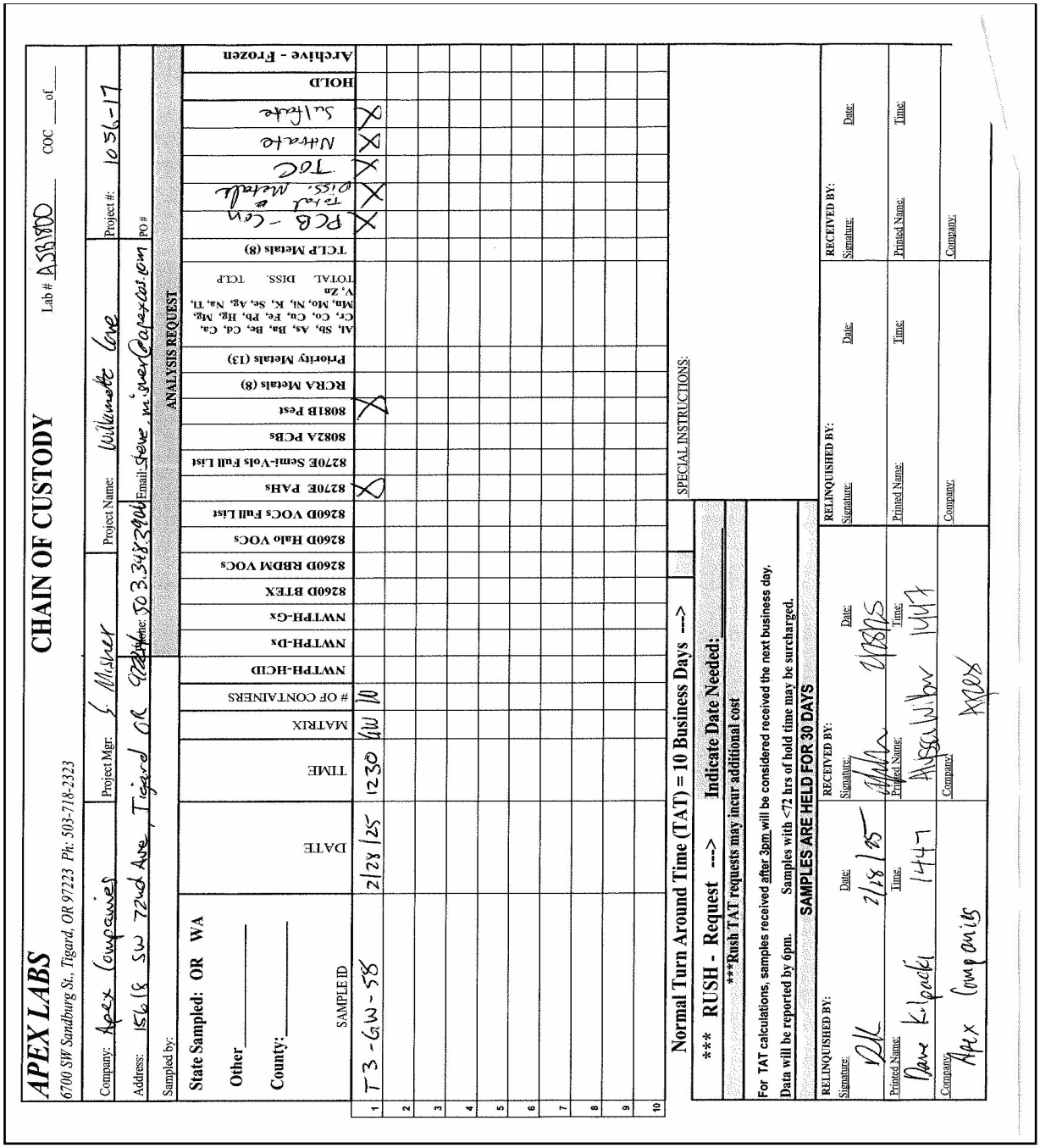
Apex Laboratories, LLC
6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW Source Control**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5B1800 - 05 29 25 1557**



APEX LABS — CHAIN OF CUSTODY
6700 SW Sandburg St., Tigard, OR 97223 Ph: 503-718-2323
Lab # A5B1800 COC ___ of ___
Company: Apex Companies | Project Mgr: S. Misner | Project Name: Willamette Cove | Project #: 1056-17
Address: 15618 SW 72nd Ave, Tigard OR 97224 | Phone: 503.348.2940 | Email: Steve.misner@apexcos.com | PO #
Sampled by:
State Sampled: OR WA
Other
County:

ANALYSIS REQUEST

	SAMPLE ID	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID	NWTPH-Dx	NWTPH-Gx	8260D BTEX	8260D RBDM VOCs	8260D Halo VOCs	8260D VOCs Full List	8270E PAHs	8270E Semi-Vols Full List	8082A PCBs	8081B Pest	RCRA Metals (8)	Priority Metals (13)	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Hg, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Tl, V, Zn TOTAL DISS. TCLP	TCLP Metals (8)	PCB - Con	Total & Diss. Metals	TOC	Nitrate	Sulfate	HOLD	Archive - Frozen
1	T3-GW-58	2/28/25	1230	GW	10								X			X				X	X	X	X	X		
2																										
3																										
4																										
5																										
6																										
7																										
8																										
9																										
10																										

Normal Turn Around Time (TAT) = 10 Business Days --->
*** RUSH - Request ---> Indicate Date Needed:
***Rush TAT requests may incur additional cost
For TAT calculations, samples received after 3pm will be considered received the next business day.
Data will be reported by 6pm. Samples with <72 hrs of hold time may be surcharged.
SAMPLES ARE HELD FOR 30 DAYS

SPECIAL INSTRUCTIONS:

RELINQUISHED BY: Signature: Date: Printed Name: Time: Company:
RECEIVED BY: Signature: Date: Printed Name: Time: Company:
RELINQUISHED BY: Signature: Date: Printed Name: Time: Company:
RECEIVED BY: Signature: Date: Printed Name: Time: Company:
RELINQUISHED BY: Signature: Date: 2/28/25 Printed Name: Dave Kilpatrick Time: 1447 Company: Apex Companies
RECEIVED BY: Signature: Date: 2/28/25 Printed Name: Russ Wilbur Time: 1447 Company: APEX

Apex Laboratories

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Darrell Auvil, Client Services Manager

Apex Laboratories, LLC

6700 S.W. Sandburg Street
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503-718-2323
ORELAP ID: **OR100062**

Apex Companies, LLC	Project: **Willamette Cove GW Source Control**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5B1800 - 05 29 25 1557**

APEX LABS COOLER RECEIPT FORM

Client: Apex Companies Element WO#: A5B1800

Project/Project #: Willamette Cove 1056-17

Delivery Info:

Date/time received: 5/28/25 @ 1447 By: AMW

Delivered by: Apex__Client X ESS__FedEx__UPS__Radio__Morgan__SDS__Evergreen__Other__

From USDA Regulated Origin? Yes ____ No X

Cooler Inspection Date/time inspected: 5/28/25 @ 1450 By: AMW

Chain of Custody included? Yes X No ____

Signed/dated by client? Yes X No ____

Contains USDA Reg. Soils? Yes ____ No X Unsure (email RegSoils) ____

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	3.6						
Custody seals? (Y/N)	N						
Received on ice? (Y/N)	Y						
Temp. blanks? (Y/N)	Y						
Ice type: (Gel/Real/Other)	Real						
Condition (In/Out):	In						

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: 5/28/25 @ 1457 By: AMW

All samples intact? Yes X No ___ Comments: ____

Bottle labels/COCs agree? Yes X No ___ Comments: ____

COC/container discrepancies form initiated? Yes ___ No X

Containers/volumes received appropriate for analysis? Yes X No ___ Comments: ____

Do VOA vials have visible headspace? Yes ___ No ___ NA X

Comments ____

Water samples: pH checked: Yes X No ___ NA ___ pH appropriate? Yes X No ___ NA ___ pH ID: A25I172

Comments: ____

Labeled by: AMW Witness: [signature] Cooler Inspected by: AMW

Form Y-003 R-02

Apex Laboratories

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Darrell Auvil, Client Services Manager

CERES Analytical Laboratory, Inc.
4919 Windplay Dr. Suite 1, El Dorado Hills, CA 95762

March 21, 2025 Ceres ID: 19230

Apex Laboratories
6700 S.W. Sandburg Street
Tigard, OR 97223

The following report contains the results for the one aqueous sample received on March 5, 2025. This sample was analyzed for congener PCBs by EPA method 1668C. Standard 3-week turn-around time was provided for this work.

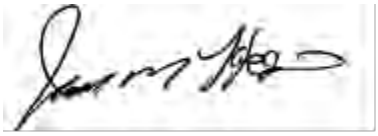
This work was authorized under Apex Laboratories' Project # A5B1800.

Continuing Calibration Verification (CCV) Requirements
All associated calibration verification standard(s) (CCV) met the acceptance criteria.

The report consists of a Cover Letter, Sample Inventory (Section I), Data Summary (Section II), Sample Tracking (Section VI), and Qualifiers/Abbreviations (Section VII). Raw Data (Section III), Continuing Calibration (Section IV), and Initial Calibration (Section V) are available in a full report (.pdf format) upon request.

If you have any questions regarding this report, please feel free to contact me at (916)932-5011.

Sincerely,



James M. Hedin
Director of Operations/CEO
jhedin@ceres-lab.com

Section I: Sample Inventory

Ceres Sample ID:	Sample ID	Date Received	Collection Date	&Time
19230-001	T3-GW-58	3/5/2025	2/28/2025	12:30

Section II: Data Summary

Sample ID: Method Blank

	Ceres ID:	0-3442-MB		**Date Received:**	NA
Project ID:	A5B1800	**QC Batch #:**	3442	**Date Extracted:**	14-Mar-25
Matrix:	Aqueous	**Sample Size:**	1.000 L	**Analyzed Date:**	15-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2-MoCB	1	ND		20.0	2.08
3-MoCB	2	ND		20.0	3.49
4-MoCB	3	ND		20.0	3.49
2,2'-/2,6-DiCB	4/10	ND		20.0	8.07
2,4-/2,5-DiCB	7/9	ND		20.0	8.07
2,3'-DiCB	6	ND		20.0	8.07
2,3-/2,4'-DiCB	5/8	ND		20.0	8.07
3,5-DiCB	14	ND		20.0	8.31
3,3'-DiCB	11	ND		20.0	8.31
3,4-/3,4'-DiCB	12/13	ND		20.0	8.31
4,4'-DiCB	15	ND		20.0	8.31
2,2',6-TrCB	19	ND		20.0	4.97
2,4,6-TrCB	30	ND		20.0	4.97
2,2',5-TrCB	18	ND		20.0	4.97
2,2',4-TrCB	17	ND		20.0	4.97
2,3,6-/2,3',6-TrCB	24/27	ND		20.0	4.97
2,2',3-/2,4',6-TrCB	16/32	ND		20.0	4.97
2',3,5-TrCB	34	ND		20.0	5.86
2,3,5-TrCB	23	ND		20.0	5.86
2,4,5-TrCB	29	ND		20.0	5.86
2,3',5-TrCB	26	ND		20.0	5.86
2,3',4-TrCB	25	ND		20.0	5.86
2,4',5-TrCB	31	ND		20.0	5.86
2,4,4'-TrCB	28	ND		20.0	5.86
2,3,3'-/2,3,4-/2',3,4-TrCB	20/21/33	ND		20.0	5.86
2,3,4'-TrCB	22	ND		20.0	5.86
3,3',5-TrCB	36	ND		20.0	5.86
3,4',5-TrCB	39	ND		20.0	5.86
3,4,5-TrCB	38	ND		20.0	5.86
3,3',4-TrCB	35	ND		20.0	5.86
3,4,4'-TrCB	37	ND		20.0	5.86
2,2',6,6'-TeCB	54	ND		20.0	3.75
2,2',4,6-TeCB	50	ND		20.0	3.75
2,2',5,6'-TeCB	53	ND		20.0	3.75
2,2',4,6'-TeCB	51	ND		20.0	3.75
2,2',3,6-TeCB	45	ND		20.0	3.75
2,2',3,6'-TeCB	46	ND		20.0	3.75
2,2',5,5'-/2,3',4,6-TeCB	52/69	ND		20.0	3.75
2,3',5',6-TeCB	73	ND		20.0	3.75
2,2',3-5-/2,2',4,5'-TeCB	43/49	ND		20.0	3.75
2,2',4,4'-TeCB	47	ND		20.0	3.75
2,2',4,5-/2,4,4',6-TeCB	48/75	ND		20.0	3.75
2,3,5,6-TeCB	65	ND		20.0	3.75
2,3,4,6-TeCB	62	ND		20.0	3.75

Sample ID: Method Blank

		Ceres ID:	0-3442-MB	**Date Received:**	NA
Project:	A5B1800	**QC Batch #:**	3442	**Date Extracted:**	14-Mar-25
Matrix:	Aqueous	**Sample Size:**	1.000 L	**Analyzed Date:**	15-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2,2',3,5'-TeCB	44	ND		20.0	3.75
2,2',3,4'-/2,3,3',6-TeCB	42/59	ND		20.0	3.75
2,2',3,4-/2,3,4',6-/2,3',4',6-/2,3',5,5'-TeCB	41/64/71/72	ND		20.0	3.75
2,3',4,5'-TeCB	68	ND		20.0	3.75
2,2',3,3'-TeCB	40	ND		20.0	3.75
2,3,3',5-TeCB	57	ND		20.0	3.75
2,3',4,5-TeCB	67	ND		20.0	3.75
2,3,3',5'-TeCB	58	ND		20.0	3.75
2,3,4',5-TeCB	63	ND		20.0	3.75
2,4,4',5-TeCB	74	ND		20.0	3.75
2,3,4,5-/2,3',4',5-TeCB	61/70	ND		20.0	3.75
2,3',4,4'-/2',3,4,5-TeCB	66/76	ND		20.0	3.75
3,3',5,5'-TeCB	80	ND		20.0	3.75
2,3,3',4-TeCB	55	ND		20.0	3.75
2,3,3',4'-/2,3,4,4'-TeCB	56/60	ND		20.0	3.59
3,3',4,5'-TeCB	79	ND		20.0	3.59
3,3',4,5-TeCB	78	ND		20.0	3.59
3,4,4',5-TeCB	81	ND		20.0	3.59
3,3',4,4'-TeCB	77	ND		20.0	5.22
2,2',4,6,6'-PeCB	104	ND		20.0	4.75
2,2',3,6,6'-PeCB	96	ND		20.0	4.75
2,2',4,5'6-PeCB	103	ND		20.0	4.75
2,2',4,4',6-PeCB	100	ND		20.0	4.75
2,2',3,5,6'-PeCB	94	ND		20.0	4.75
2,2',3,5,6-/2,2',3,5',6-/2,2',3',4,6-/2,2',4,5,6'-PeCB	93/95/98/102	ND		20.0	4.75
2,2',3,4,6-PeCB	88/91	ND		20.0	4.75
2,3',4,5',6-PeCB	121	ND		20.0	4.75
2,2',3,3',6-/2,2',3,5,5'-PeCB	84/92	ND		20.0	3.46
2,2',3,4,6'-PeCB	89	ND		20.0	3.46
2,2',3,4',5-/2,2',4,5,5'-PeCB	90/101	ND		20.0	3.46
2,3,3',5',6-PeCB	113	ND		20.0	3.46
2,2',4,4',5-PeCB	99	ND		20.0	3.46
2,2',3,3',5-PeCB	83	ND		20.0	3.46
2,3,3',5,6-/2,3',4,4',6-PeCB	112/119	ND		20.0	3.46
2,3,3',4,6-PeCB	109	ND		20.0	3.46
2,2',3',4,5-PeCB	97	ND		20.0	3.46
2,2',3,4,5-PeCB	86	ND		20.0	3.46
2,2',3,4,5'-/2,3,4',5,6-/2',3,4,5,6'-PeCB	87/117/125	ND		20.0	3.46
2,3,3',5,5'-/2,3,4,4',6-PeCB	111/115	ND		20.0	3.46
2,2',3,4,4'-/2,3,4,5,6-PeCB	85/116	ND		20.0	3.46
2,3',4,5,5'-PeCB	120	ND		20.0	3.46
2-3,3',4',6-PeCB	110	ND		20.0	3.46

Sample ID: Method Blank

		Ceres ID:	0-3442-MB		**Date Received:**	NA
Project:	A5B1800	**QC Batch #:**	3442		**Date Extracted:**	14-Mar-25
Matrix:	Aqueous	**Sample Size:**	1.000	L	**Analyzed Date:**	15-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2,2',3,3',4-PeCB	82	ND		20.0	3.46
2',3,4,5,5'-PeCB	124	ND		20.0	3.46
2,3,3',4',5-/2,3,3',4,5'-PeCB	107/108	ND		20.0	3.46
2,3',4,4',5'-PeCB	123	ND		20.0	3.46
2,3,3',4,5-/2,3',4,4',5-PeCB	106/118	ND		20.0	5.58
2,3,4,4',5-PeCB	114	ND		20.0	3.25
2',3,3',4,5-PeCB	122	ND		20.0	3.25
2,3,3',4,4'-PeCB	105	ND		20.0	4.87
3,3',4,5,5'-PeCB	127	ND		20.0	4.87
3,3',4,4',5-PeCB	126	ND		20.0	5.73
2,2',4,4',6,6'-HxCB	155	ND		20.0	4.86
2,2',3,4',6,6'-HxCB	150	ND		20.0	4.86
2,2',3,5,6,6'-HxCB	152	ND		20.0	4.86
2,2',3,4,6,6'-HxCB	145	ND		20.0	4.86
2,2',3,3',6,6'-HxCB	136	ND		20.0	4.86
2,2',3,4',5,6'-HxCB	148	ND		20.0	4.86
2,2',4,4',5',6-HxCB	154	ND		20.0	4.86
2,2',3,5,5',6-HxCB	151	ND		20.0	4.86
2,2',3,3',5,6'-HxCB	135	ND		20.0	4.86
2,2',3,4,5',6-HxCB	144	ND		20.0	4.86
2,2',3,4',5,6-HxCB	147	ND		20.0	4.86
2,2',3,4,4',6-/2,2',3,4',5',6-HxCB	139/149	ND		20.0	4.86
2,2',3,4,4',6'-HxCB	140	ND		20.0	4.86
2,2',3,3',5,6-/2,2',3,4,5,6'-HxCB	134/143	ND		20.0	5.19
2,2',3,3',4,6-/2,2',3,4,5,6-HxCB	131/142	ND		20.0	5.19
2,2',3,3',5,5'-HxCB	133	ND		20.0	5.19
2,2',3,3',4,6'-/2,2',3,4',5,5'-HxCB	132/146	ND		20.0	5.19
2,3,3',4,5',6-/2,3,3',5,5',6-HxCB	161/165	ND		20.0	5.19
2,2',4,4',5,5'-HxCB	153	ND		20.0	5.19
2,3',4,4',5',6-HxCB	168	ND		20.0	5.19
2,2',3,4,5,5'-HxCB	141	ND		20.0	5.19
2,2',3,4,4',5-HxCB	137	ND		20.0	5.19
2,2',3,3',4,5'-HxCB	130	ND		20.0	5.19
2,2',3,4,4',5-/2,3,3',4',5,6-/2,3,3',4',5',6-HxCB	138/163/164	ND		20.0	5.19
2,3,3',4,4',6-/2,3,3',4,5,6-HxCB	158/160	ND		20.0	5.19
2,2',3,3',4,5-HxCB	129	ND		20.0	5.19
2,3,4,4',5,6-HxCB	166	ND		20.0	5.19
2,3,3',4,5,5'-HxCB	159	ND		20.0	5.19
2,2',3,3',4,4'-/2,3,3',4',5,5'-HxCB	128/162	ND		20.0	5.19
2,3',4,4',5,5'-HxCB	167	ND		20.0	5.19
2,3,3',4,4',5-HxCB	156	ND		20.0	4.13
2,3,3',4,4',5'-HxCB	157	ND		20.0	6.07
3,3',4,4',5,5'-HxCB	169	ND		20.0	5.20

Sample ID: Method Blank

		Ceres ID:	0-3442-MB		**Date Received:**	NA
Project:	A5B1800	**QC Batch #:**	3442		**Date Extracted:**	14-Mar-25
Matrix:	Aqueous	**Sample Size:**	1.000	L	**Analyzed Date:**	15-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2,2',3,4',5,6,6'-HpCB	188	ND		20.0	5.69
2,2',3,4,4',6,6'-HpCB	184	ND		20.0	5.69
2,2',3,3',5,6,6'-HpCB	179	ND		20.0	5.69
2,2',3,3',4,6,6'-HpCB	176	ND		20.0	5.69
2,2',3,4,5,6,6'-HpCB	186	ND		20.0	5.69
2,2',3,3',5,5',6-HpCB	178	ND		20.0	5.69
2,2',3,3',4,5',6-HpCB	175	ND		20.0	5.69
2,2',3,4,4',5,6'-/2,2',3,4',5,5',6-HpCB	182/187	ND		20.0	5.69
2,2',3,4,4',5',6-HpCB	183	ND		20.0	5.69
2,2',3,4,5,5',6-HpCB	185	ND		20.0	3.69
2,2',3,3',4,5,6'-HpCB	174	ND		20.0	3.69
2,2',3,4,4',5,6-HpCB	181	ND		20.0	3.69
2,2',3,3',4',5,6-HpCB	177	ND		20.0	3.69
2,2',3,3',4,4',6-HpCB	171	ND		20.0	3.69
2,2',3,3',4,5,6-HpCB	173	ND		20.0	3.69
2,2',3,3',4,5,5'-HpCB	172	ND		20.0	3.69
2,3,3',4,5,5',6-HpCB	192	ND		20.0	3.69
2,2',3,4,4',5,5'-HpCB	180	ND		20.0	3.69
2,3,3',4',5,5',6-HpCB	193	ND		20.0	3.69
2,3,3',4,4',5',6-HpCB	191	ND		20.0	3.69
2,2',3,3',4,4',5-HpCB	170	ND		20.0	3.69
2,3,3',4,4',5,6-HpCB	190	ND		20.0	3.69
2,3,3',4,4',5,5'-HpCB	189	ND		20.0	3.69
2,2',3,3',5,5',6,6'-OcCB	202	ND		20.0	4.31
2,2',3,3',4,5',6,6'-OcCB	201	ND		20.0	4.31
2,2',3,4,4',5,6,6'-OcCB	204	ND		20.0	4.31
2,2',3,3',4,4',6,6'-OcCB	197	ND		20.0	4.31
2,2',3,3',4,5,6,6'-OcCB	200	ND		20.0	4.31
2,2',3,3',4,5,5',6-OcCB	198	ND		20.0	4.31
2,2',3,3',4,5,5',6'-OcCB	199	ND		20.0	4.31
2,2',3,3',4,4',5,6'-/2,2',3,4,4',5,5',6-OcCB	196/203	ND		20.0	4.31
2,2',3,3',4,4',5,6-OcCB	195	ND		20.0	7.16
2,2',3,3',4,4',5,5'-OcCB	194	ND		20.0	7.16
2,3,3',4,4',5,5',6-OcCB	205	ND		20.0	7.16
2,2',3,3',4,5,5',6,6'-NoCB	208	ND		20.0	3.75
2,2',3,3',4,4',5,6,6'-NoCB	207	ND		20.0	3.75
2,2',3,3',4,4',5,5',6-NoCB	206	ND		20.0	5.61
Decachlorobiphenyl	209	ND		20.0	4.14

Sample ID: Method Blank

		Ceres ID:	0-3442-MB	**Date Received:**	NA
Project:	A5B1800	**QC Batch #:**	3442	**Date Extracted:**	14-Mar-25
Matrix:	Aqueous	**Sample Size:**	1.000 L	**Analyzed Date:**	15-Mar-25

Totals	**Chlorination Level**	**Conc. (pg/L)**	**Qual.**	**RL**
Monochlorobiphenyl	MoCB	0		20.0
Dichlorobiphenyl	DiCB	0		20.0
Trichlorobiphenyl	TrCB	0		20.0
Tetrachlorobiphenyl	TeCB	0		20.0
Pentachlorobiphenyl	PeCB	0		20.0
Hexachlorobiphenyl	HxCB	0		20.0
Heptachlorobiphenyl	HpCB	0		20.0
Octachlorobiphenyl	OcCB	0		20.0
Nonachlorobiphenyl	NoCB	0		20.0
Decachlorobiphenyl	DeCB	ND		20.0

Labeled Standards	**Congener #**	**% Rec.**	**Limits**
$^{13}C_{12}$-2-MoCB	1	133	5-145
$^{13}C_{12}$-4-MoCB	3	117	5-145
$^{13}C_{12}$-2,2'-DiCB	4	107	5-145
$^{13}C_{12}$-4,4'-DiCB	15	87.1	5-145
$^{13}C_{12}$-2,2',6-TrCB	19	142	5-145
$^{13}C_{12}$-3,4,4'-TrCB	37	46.3	5-145
$^{13}C_{12}$-2,2',6,6'-TeCB	54	54.4	5-145
$^{13}C_{12}$-3,4,4',5-TeCB	81	99.2	10-145
$^{13}C_{12}$-3,3',4,4'-TeCB	77	96.4	10-145
$^{13}C_{12}$-2,2',4,6,6'-PeCB	104	93.8	10-145
$^{13}C_{12}$-2,3',4,4',5'-PeCB	123	101	10-145
$^{13}C_{12}$-2,3',4,4',5-PeCB	118	101	10-145
$^{13}C_{12}$-2,3,4,4',5-PeCB	114	62.1	10-145
$^{13}C_{12}$-2,3,3',4,4'-PeCB	105	63.8	10-145
$^{13}C_{12}$-3,3',4,4',5-PeCB	126	58.9	10-145
$^{13}C_{12}$-2,2',4,4',6,6'-HxCB	155	127	10-145
$^{13}C_{12}$-2,3',4,4',5,5'-HxCB	167	95.3	10-145
$^{13}C_{12}$-2,3,3',4,4',5-HxCB	156	95.5	10-145
$^{13}C_{12}$-2,3,3',4,4',5'-HxCB	157	92.1	10-145
$^{13}C_{12}$-3,3',4,4',5,5'-HxCB	169	93.0	10-145
$^{13}C_{12}$-2,2',3,4',5,6,6'-HpCB	188	113	10-145
$^{13}C_{12}$-2,3,3',4,4',5,5'-HpCB	189	122	10-145
$^{13}C_{12}$-2,2',3,3',5,5',6,6'-OcCB	202	135	10-145
$^{13}C_{12}$-2,3,3',4,4',5,5',6-OcCB	205	92.4	10-145
$^{13}C_{12}$-2,2',3,3',4,5,5',6,6'-NoCB	208	98.5	10-145
$^{13}C_{12}$-2,2',3,3',4,4',5,5',6-NoCB	206	128	10-145
$^{13}C_{12}$-Decachlorobiphenyl	209	134	10-145
Cleanup Standards			
$^{13}C_{12}$-2,4,4'-TrCB	28	49.6	5-145
$^{13}C_{12}$-2,3,3',5,5'-PeCB	111	107	10-145
$^{13}C_{12}$-2,2',3,3',5,5',6-HpCB	178	117	10-145

Sample ID: **Ongoing Precision and Recovery (OPR)**

		Ceres ID:	0-3442-OPR	**Date Received:**	NA
Project:	A5B1800	**QC Batch #:**	3442	**Date Extracted:**	14-Mar-25
Matrix:	Aqueous	**Sample Size:**	1.000 L	**Analyzed Date:**	15-Mar-25

Analyte	**Congener #**	**Units**	**Conc. Found**	**Limits**
2-MoCB	1	ng/mL	32.6	30-67.5
4-MoCB	3	ng/mL	32.3	30-67.5
2,2'-/2,6-DiCB	4/10	ng/mL	77.5	60-135
4,4'-DiCB	15	ng/mL	37.8	30-67.5
2,2',6-TrCB	19	ng/mL	38.8	30-67.5
3,4,4'-TrCB	37	ng/mL	37.1	30-67.5
2,2',6,6'-TeCB	54	ng/mL	55.6	30-67.5
3,4,4',5-TeCB	81	ng/mL	39.0	30-67.5
3,3',4,4'-TeCB	77	ng/mL	43.7	30-67.5
2,2',4,6,6'-PeCB	104	ng/mL	39.6	30-67.5
2,3',4,4',5'-PeCB	123	ng/mL	39.4	30-67.5
2,3,3',4,5-/2,3',4,4',5-PeCB	106/118	ng/mL	80.4	60-135
2,3,4,4',5-PeCB	114	ng/mL	42.1	30-67.5
2,3,3',4,4'-PeCB	105	ng/mL	43.0	30-67.5
3,3',4,4',5-PeCB	126	ng/mL	42.4	30-67.5
2,2',4,4',6,6'-HxCB	155	ng/mL	42.2	30-67.5
2,3',4,4',5,5'-HxCB	167	ng/mL	38.1	30-67.5
2,3,3',4,4',5-HxCB	156	ng/mL	37.5	30-67.5
2,3,3',4,4',5'-HxCB	157	ng/mL	39.0	30-67.5
3,3',4,4',5,5'-HxCB	169	ng/mL	370	30-67.5
2,2',3,4',5,6,6'-HpCB	188	ng/mL	38.5	30-67.5
2,3,3',4,4',5,5'-HpCB	189	ng/mL	37.1	30-67.5
2,2',3,3',5,5',6,6'-OcCB	202	ng/mL	41.7	30-67.5
2,3,3',4,4',5,5',6-OcCB	205	ng/mL	45.8	30-67.5
2,2',3,3',4,5,5',6,6'-NoCB	208	ng/mL	43.9	30-67.5
2,2',3,3',4,4',5,5',6-NoCB	206	ng/mL	41.6	30-67.5
Decachlorobiphenyl	209	ng/mL	44.4	30-67.5

Sample ID: **Ongoing Precision and Recovery (OPR)**

		Ceres ID:	0-3442-OPR	**Date Received:**	NA
Project:	A5B1800	**QC Batch #:**	3442	**Date Extracted:**	14-Mar-25
Matrix:	Aqueous	**Sample Size:**	1.000 L	**Analyzed Date:**	15-Mar-25

Labeled Standards	**Congener #**	**Units**		**Limits**
$^{13}C_{12}$-2-MoCB	1	%	97.8	15-145
$^{13}C_{12}$-4-MoCB	3	%	86.6	15-145
$^{13}C_{12}$-2,2'-DiCB	4	%	108	15-145
$^{13}C_{12}$-4,4'-DiCB	15	%	84.2	15-145
$^{13}C_{12}$-2,2',6-TrCB	19	%	141	15-145
$^{13}C_{12}$-3,4,4'-TrCB	37	%	47.9	15-145
$^{13}C_{12}$-2,2',6,6'-TeCB	54	%	60.7	15-145
$^{13}C_{12}$-3,4,4',5-TeCB	81	%	95.8	40-145
$^{13}C_{12}$-3,3',4,4'-TeCB	77	%	96.7	40-145
$^{13}C_{12}$-2,2',4,6,6'-PeCB	104	%	99.1	40-145
$^{13}C_{12}$-2,3',4,4',5'-PeCB	123	%	104	40-145
$^{13}C_{12}$-2,3',4,4',5-PeCB	118	%	105	40-145
$^{13}C_{12}$-2,3,4,4',5-PeCB	114	%	60.3	40-145
$^{13}C_{12}$-2,3,3',4,4'-PeCB	105	%	60.7	40-145
$^{13}C_{12}$-3,3',4,4',5-PeCB	126	%	59.4	40-145
$^{13}C_{12}$-2,2',4,4',6,6'-HxCB	155	%	133	40-145
$^{13}C_{12}$-2,3',4,4',5,5'-HxCB	167	%	90.8	40-145
$^{13}C_{12}$-2,3,3',4,4',5-HxCB	156	%	92.3	40-145
$^{13}C_{12}$-2,3,3',4,4',5'-HxCB	157	%	93.4	40-145
$^{13}C_{12}$-3,3',4,4',5,5'-HxCB	169	%	99.2	40-145
$^{13}C_{12}$-2,2',3,4',5,6,6'-HpCB	188	%	118	40-145
$^{13}C_{12}$-2,3,3',4,4',5,5'-HpCB	189	%	128	40-145
$^{13}C_{12}$-2,2',3,3',5,5',6,6'-OcCB	202	%	144	40-145
$^{13}C_{12}$-2,3,3',4,4',5,5',6-OcCB	205	%	96.5	40-145
$^{13}C_{12}$-2,2',3,3',4,5,5',6,6'-NoCB	208	%	112	40-145
$^{13}C_{12}$-2,2',3,3',4,4',5,5',6-NoCB	206	%	138	40-145
$^{13}C_{12}$-Decachlorobiphenyl	209	%	140	40-145
Cleanup Standards				
$^{13}C_{12}$-2,4,4'-TrCB	28	%	50.3	15-145
$^{13}C_{12}$-2,3,3',5,5'-PeCB	111	%	114	40-145
$^{13}C_{12}$-2,2',3,3',5,5',6-HpCB	178	%	114	40-145

Sample ID: T3-GW-58

Project ID:	A5B1800	**Ceres ID:**	19230-001	**Date Received:**	3/5/2025
Matrix:	Aqueous	**QC Batch #:**	3442	**Date Extracted:**	3/14/2025
Date & Time Sampled:	2/28/2025 12:30	**Sample Size:**	0.987 L	**Analyzed Date:**	3/15/2025

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2-MoCB	1	61.1		20.3	2.08
3-MoCB	2	23.1		20.3	3.49
4-MoCB	3	59.4		20.3	3.49
2,2'-/2,6-DiCB	4/10	104		20.3	8.07
2,4-/2,5-DiCB	7/9	72.8		20.3	8.07
2,3'-DiCB	6	119		20.3	8.07
2,3-/2,4'-DiCB	5/8	988		20.3	8.07
3,5-DiCB	14	ND		20.3	8.31
3,3'-DiCB	11	7390		20.3	8.31
3,4-/3,4'-DiCB	12/13	ND		20.3	8.31
4,4'-DiCB	15	989		20.3	8.31
2,2',6-TrCB	19	185		20.3	4.97
2,4,6-TrCB	30	ND		20.3	4.97
2,2',5-TrCB	18	3700		20.3	4.97
2,2',4-TrCB	17	1470		20.3	4.97
2,3,6-/2,3',6-TrCB	24/27	330		20.3	4.97
2,2',3-/2,4',6-TrCB	16/32	3120		20.3	4.97
2',3,5-TrCB	34	ND		20.3	5.86
2,3,5-TrCB	23	ND		20.3	5.86
2,4,5-TrCB	29	ND		20.3	5.86
2,3',5-TrCB	26	1140		20.3	5.86
2,3',4-TrCB	25	439		20.3	5.86
2,4',5-TrCB	31	5470		20.3	5.86
2,4,4'-TrCB	28	6350		20.3	5.86
2,3,3'-/2,3,4-/2',3,4-TrCB	20/21/33	4800		20.3	5.86
2,3,4'-TrCB	22	2830		20.3	5.86
3,3',5-TrCB	36	ND		20.3	5.86
3,4',5-TrCB	39	ND		20.3	5.86
3,4,5-TrCB	38	82.0		20.3	5.86
3,3',4-TrCB	35	79.3		20.3	5.86
3,4,4'-TrCB	37	1970		20.3	5.86
2,2',6,6'-TeCB	54	ND		20.3	3.75
2,2',4,6-TeCB	50	ND		20.3	3.75
2,2',5,6'-TeCB	53	875		20.3	3.75
2,2',4,6'-TeCB	51	340		20.3	3.75
2,2',3,6-TeCB	45	1220		20.3	3.75
2,2',3,6'-TeCB	46	512		20.3	3.75
2,2',5,5'-/2,3',4,6-TeCB	52/69	5600		20.3	3.75
2,3',5',6-TeCB	73	ND		20.3	3.75
2,2',3-5-/2,2',4,5'-TeCB	43/49	4970		20.3	3.75
2,2',4,4'-TeCB	47	1870		20.3	3.75
2,2',4,5-/2,4,4',6-TeCB	48/75	1760		20.3	3.75
2,3,5,6-TeCB	65	ND		20.3	3.75
2,3,4,6-TeCB	62	ND		20.3	3.75

Sample ID: T3-GW-58

Project:	A5B1800	**Ceres ID:**	19230-001	**Date Received:**	5-Mar-25
Matrix:	Aqueous	**QC Batch #:**	3442	**Date Extracted:**	14-Mar-25
Date & Time Sampled:	2/28/2025 12:30	**Sample Size:**	0.987 L	**Analyzed Date:**	15-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2,2',3,5'-TeCB	44	6720		20.3	3.75
2,2',3,4'-/2,3,3',6-TeCB	42/59	2810		20.3	3.75
2,2',3,4-/2,3,4',6-/2,3',4',6-/2,3',5,5'-TeCB	41/64/71/72	6730		20.3	3.75
2,3',4,5'-TeCB	68	52.9		20.3	3.75
2,2',3,3'-TeCB	40	1260		20.3	3.75
2,3,3',5-TeCB	57	66.7		20.3	3.75
2,3',4,5-TeCB	67	356		20.3	3.75
2,3,3',5'-TeCB	58	ND		20.3	3.75
2,3,4',5-TeCB	63	280		20.3	3.75
2,4,4',5-TeCB	74	3020		20.3	3.75
2,3,4,5-/2,3',4',5-TeCB	61/70	6330		20.3	3.75
2,3',4,4'-/2',3,4,5-TeCB	66/76	5200		20.3	3.75
3,3',5,5'-TeCB	80	ND		20.3	3.75
2,3,3',4-TeCB	55	205		20.3	3.75
2,3,3',4'-/2,3,4,4'-TeCB	56/60	4140		20.3	3.59
3,3',4,5'-TeCB	79	ND		20.3	3.59
3,3',4,5-TeCB	78	ND		20.3	3.59
3,4,4',5-TeCB	81	62.1		20.3	3.59
3,3',4,4'-TeCB	77	263		20.3	5.22
2,2',4,6,6'-PeCB	104	ND		20.3	4.75
2,2',3,6,6'-PeCB	96	ND		20.3	4.75
2,2',4,5'6-PeCB	103	ND		20.3	4.75
2,2',4,4',6-PeCB	100	ND		20.3	4.75
2,2',3,5,6'-PeCB	94	ND		20.3	4.75
2,2',3,5,6-/2,2',3,5',6-/2,2',3',4,6-/2,2',4,5,6'-PeCB	93/95/98/102	1870		20.3	4.75
2,2',3,4,6-PeCB	88/91	479		20.3	4.75
2,3',4,5',6-PeCB	121	ND		20.3	4.75
2,2',3,3',6-/2,2',3,5,5'-PeCB	84/92	753		20.3	3.46
2,2',3,4,6'-PeCB	89	57.2		20.3	3.46
2,2',3,4',5-/2,2',4,5,5'-PeCB	90/101	1630		20.3	3.46
2,3,3',5',6-PeCB	113	ND		20.3	3.46
2,2',4,4',5-PeCB	99	672		20.3	3.46
2,2',3,3',5-PeCB	83	41.2		20.3	3.46
2,3,3',5,6-/2,3',4,4',6-PeCB	112/119	107		20.3	3.46
2,3,3',4,6-PeCB	109	ND		20.3	3.46
2,2',3',4,5-PeCB	97	666		20.3	3.46
2,2',3,4,5-PeCB	86	30.1		20.3	3.46
2,2',3,4,5'-/2,3,4',5,6-/2',3,4,5,6'-PeCB	87/117/125	602		20.3	3.46
2,3,3',5,5'-/2,3,4,4',6-PeCB	111/115	29.4		20.3	3.46
2,2',3,4,4'-/2,3,4,5,6-PeCB	85/116	282		20.3	3.46
2,3',4,5,5'-PeCB	120	ND		20.3	3.46
2-3,3',4',6-PeCB	110	1490		20.3	3.46

Sample ID: T3-GW-58

Project:	A5B1800	**Ceres ID:**	19230-001	**Date Received:**	5-Mar-25
Matrix:	Aqueous	**QC Batch #:**	3442	**Date Extracted:**	14-Mar-25
Date & Time Sampled:	2/28/2025 12:30	**Sample Size:**	0.987 L	**Analyzed Date:**	15-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2,2',3,3',4-PeCB	82	292		20.3	3.46
2',3,4,5,5'-PeCB	124	55.9		20.3	3.46
2,3,3',4',5-/2,3,3',4,5'-PeCB	107/108	48.4		20.3	3.46
2,3',4,4',5'-PeCB	123	25.3		20.3	3.46
2,3,3',4,5-/2,3',4,4',5-PeCB	106/118	850		20.3	5.58
2,3,4,4',5-PeCB	114	ND		20.3	3.25
2',3,3',4,5-PeCB	122	ND		20.3	3.25
2,3,3',4,4'-PeCB	105	431		20.3	4.87
3,3',4,5,5'-PeCB	127	ND		20.3	4.87
3,3',4,4',5-PeCB	126	ND		20.3	5.73
2,2',4,4',6,6'-HxCB	155	ND		20.3	4.86
2,2',3,4',6,6'-HxCB	150	ND		20.3	4.86
2,2',3,5,6,6'-HxCB	152	ND		20.3	4.86
2,2',3,4,6,6'-HxCB	145	ND		20.3	4.86
2,2',3,3',6,6'-HxCB	136	162		20.3	4.86
2,2',3,4',5,6'-HxCB	148	ND		20.3	4.86
2,2',4,4',5',6-HxCB	154	ND		20.3	4.86
2,2',3,5,5',6-HxCB	151	251		20.3	4.86
2,2',3,3',5,6'-HxCB	135	133		20.3	4.86
2,2',3,4,5',6-HxCB	144	56.7		20.3	4.86
2,2',3,4',5,6-HxCB	147	33.3		20.3	4.86
2,2',3,4,4',6-/2,2',3,4',5',6-HxCB	139/149	907		20.3	4.86
2,2',3,4,4',6'-HxCB	140	ND		20.3	4.86
2,2',3,3',5,6-/2,2',3,4,5,6'-HxCB	134/143	63.7		20.3	5.19
2,2',3,3',4,6-/2,2',3,4,5,6-HxCB	131/142	31.6		20.3	5.19
2,2',3,3',5,5'-HxCB	133	ND		20.3	5.19
2,2',3,3',4,6'-/2,2',3,4',5,5'-HxCB	132/146	148		20.3	5.19
2,3,3',4,5',6-/2,3,3',5,5',6-HxCB	161/165	299		20.3	5.19
2,2',4,4',5,5'-HxCB	153	871		20.3	5.19
2,3',4,4',5',6-HxCB	168	ND		20.3	5.19
2,2',3,4,5,5'-HxCB	141	196		20.3	5.19
2,2',3,4,4',5-HxCB	137	45.8		20.3	5.19
2,2',3,3',4,5'-HxCB	130	ND		20.3	5.19
2,2',3,4,4',5-/2,3,3',4',5,6-/2,3,3',4',5',6-HxCB	138/163/164	890		20.3	5.19
2,3,3',4,4',6-/2,3,3',4,5,6-HxCB	158/160	104		20.3	5.19
2,2',3,3',4,5-HxCB	129	ND		20.3	5.19
2,3,4,4',5,6-HxCB	166	ND		20.3	5.19
2,3,3',4,5,5'-HxCB	159	ND		20.3	5.19
2,2',3,3',4,4'-/2,3,3',4',5,5'-HxCB	128/162	146		20.3	5.19
2,3',4,4',5,5'-HxCB	167	211		20.3	5.19
2,3,3',4,4',5-HxCB	156	83.5		20.3	4.13
2,3,3',4,4',5'-HxCB	157	ND		20.3	6.07
3,3',4,4',5,5'-HxCB	169	ND		20.3	5.20

Sample ID: T3-GW-58

Project:	A5B1800	**Ceres ID:**	19230-001	**Date Received:**	5-Mar-25
Matrix:	Aqueous	**QC Batch #:**	3442	**Date Extracted:**	14-Mar-25
Date & Time Sampled:	2/28/2025 12:30	**Sample Size:**	0.987 L	**Analyzed Date:**	15-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2,2',3,4',5,6,6'-HpCB	188	ND		20.3	5.69
2,2',3,4,4',6,6'-HpCB	184	ND		20.3	5.69
2,2',3,3',5,6,6'-HpCB	179	138		20.3	5.69
2,2',3,3',4,6,6'-HpCB	176	34.8		20.3	5.69
2,2',3,4,5,6,6'-HpCB	186	ND		20.3	5.69
2,2',3,3',5,5',6-HpCB	178	58.2		20.3	5.69
2,2',3,3',4,5',6-HpCB	175	ND		20.3	5.69
2,2',3,4,4',5,6'-/2,2',3,4',5,5',6-HpCB	182/187	379		20.3	5.69
2,2',3,4,4',5',6-HpCB	183	196		20.3	5.69
2,2',3,4,5,5',6-HpCB	185	156		20.3	3.69
2,2',3,3',4,5,6'-HpCB	174	ND		20.3	3.69
2,2',3,4,4',5,6-HpCB	181	412		20.3	3.69
2,2',3,3',4',5,6-HpCB	177	173		20.3	3.69
2,2',3,3',4,4',6-HpCB	171	101		20.3	3.69
2,2',3,3',4,5,6-HpCB	173	ND		20.3	3.69
2,2',3,3',4,5,5'-HpCB	172	61.3		20.3	3.69
2,3,3',4,5,5',6-HpCB	192	ND		20.3	3.69
2,2',3,4,4',5,5'-HpCB	180	822		20.3	3.69
2,3,3',4',5,5',6-HpCB	193	53.1		20.3	3.69
2,3,3',4,4',5',6-HpCB	191	ND		20.3	3.69
2,2',3,3',4,4',5-HpCB	170	297		20.3	3.69
2,3,3',4,4',5,6-HpCB	190	107		20.3	3.69
2,3,3',4,4',5,5'-HpCB	189	ND		20.3	3.69
2,2',3,3',5,5',6,6'-OcCB	202	74.0		20.3	4.31
2,2',3,3',4,5',6,6'-OcCB	201	ND		20.3	4.31
2,2',3,4,4',5,6,6'-OcCB	204	ND		20.3	4.31
2,2',3,3',4,4',6,6'-OcCB	197	ND		20.3	4.31
2,2',3,3',4,5,6,6'-OcCB	200	ND		20.3	4.31
2,2',3,3',4,5,5',6-OcCB	198	ND		20.3	4.31
2,2',3,3',4,5,5',6'-OcCB	199	163		20.3	4.31
2,2',3,3',4,4',5,6'-/2,2',3,4,4',5,5',6-OcCB	196/203	156		20.3	4.31
2,2',3,3',4,4',5,6-OcCB	195	97.4		20.3	7.16
2,2',3,3',4,4',5,5'-OcCB	194	177		20.3	7.16
2,3,3',4,4',5,5',6-OcCB	205	ND		20.3	7.16
2,2',3,3',4,5,5',6,6'-NoCB	208	46.8		20.3	3.75
2,2',3,3',4,4',5,6,6'-NoCB	207	ND		20.3	3.75
2,2',3,3',4,4',5,5',6-NoCB	206	159		20.3	5.61
Decachlorobiphenyl	209	216		20.3	4.14

Sample ID: T3-GW-58

Project:	A5B1800	**Ceres ID:**	19230-001	**Date Received:**	5-Mar-25
Matrix:	Aqueous	**QC Batch #:**	3442	**Date Extracted:**	14-Mar-25
Date & Time Sampled:	2/28/2025 12:30	**Sample Size:**	0.987 L	**Analyzed Date:**	15-Mar-25

Totals	**Chlorination Level**	**Conc. (pg/L)**	**Qual.**	**RL**
Monochlorobiphenyl	MoCB	144		20.3
Dichlorobiphenyl	DiCB	9663		20.3
Trichlorobiphenyl	TrCB	31965		20.3
Tetrachlorobiphenyl	TeCB	54643		20.3
Pentachlorobiphenyl	PeCB	10412		20.3
Hexachlorobiphenyl	HxCB	4633		20.3
Heptachlorobiphenyl	HpCB	2988.4		20.3
Octachlorobiphenyl	OcCB	667.4		20.3
Nonachlorobiphenyl	NoCB	205.8		20.3
Decachlorobiphenyl	DeCB	216		20.3

Labeled Standards	**Congener #**	**% Rec.**	**Limits**
$^{13}C_{12}$-2-MoCB	1	14.6	5-145
$^{13}C_{12}$-4-MoCB	3	13.2	5-145
$^{13}C_{12}$-2,2'-DiCB	4	12.9	5-145
$^{13}C_{12}$-4,4'-DiCB	15	12.7	5-145
$^{13}C_{12}$-2,2',6-TrCB	19	24.7	5-145
$^{13}C_{12}$-3,4,4'-TrCB	37	9.68	5-145
$^{13}C_{12}$-2,2',6,6'-TeCB	54	15.4	5-145
$^{13}C_{12}$-3,4,4',5-TeCB	81	16.8	10-145
$^{13}C_{12}$-3,3',4,4'-TeCB	77	16.7	10-145
$^{13}C_{12}$-2,2',4,6,6'-PeCB	104	13.0	10-145
$^{13}C_{12}$-2,3',4,4',5'-PeCB	123	16.2	10-145
$^{13}C_{12}$-2,3',4,4',5-PeCB	118	16.7	10-145
$^{13}C_{12}$-2,3,4,4',5-PeCB	114	12.9	10-145
$^{13}C_{12}$-2,3,3',4,4'-PeCB	105	11.4	10-145
$^{13}C_{12}$-3,3',4,4',5-PeCB	126	12.6	10-145
$^{13}C_{12}$-2,2',4,4',6,6'-HxCB	155	19.6	10-145
$^{13}C_{12}$-2,3',4,4',5,5'-HxCB	167	15.0	10-145
$^{13}C_{12}$-2,3,3',4,4',5-HxCB	156	14.9	10-145
$^{13}C_{12}$-2,3,3',4,4',5'-HxCB	157	13.8	10-145
$^{13}C_{12}$-3,3',4,4',5,5'-HxCB	169	14.2	10-145
$^{13}C_{12}$-2,2',3,4',5,6,6'-HpCB	188	16.3	10-145
$^{13}C_{12}$-2,3,3',4,4',5,5'-HpCB	189	10.3	10-145
$^{13}C_{12}$-2,2',3,3',5,5',6,6'-OcCB	202	19.1	10-145
$^{13}C_{12}$-2,3,3',4,4',5,5',6-OcCB	205	14.9	10-145
$^{13}C_{12}$-2,2',3,3',4,5,5',6,6'-NoCB	208	16.0	10-145
$^{13}C_{12}$-2,2',3,3',4,4',5,5',6-NoCB	206	16.2	10-145
$^{13}C_{12}$-Decachlorobiphenyl	209	15.4	10-145
Cleanup Standards			
$^{13}C_{12}$-2,4,4'-TrCB	28	46.5	5-145
$^{13}C_{12}$-2,3,3',5,5'-PeCB	111	117	10-145
$^{13}C_{12}$-2,2',3,3',5,5',6-HpCB	178	122	10-145

Section VI: Sample Tracking

SUBCONTRACT ORDER

Apex Laboratories

A5B1800

SENDING LABORATORY:

Apex Laboratories
6700 S.W. Sandburg Street
Tigard, OR 97223
Phone: (503) 718-2323
Fax: (503) 336-0745
Project Manager: Darrell Auvil

RECEIVING LABORATORY:

Ceres Analytical Laboratory, Inc
4919 Windplay Drive, Suite 1
El Dorado Hills, CA 95762
Phone :(916) 932-5011
Fax: -9

Sample Name: T3-GW-58 **Water** **Sampled: 02/28/25 12:30** (A5B1800-01)

Analysis	Due	Expires	Comments
1668C PCB Congeners (SUB)	03/26/25 17:00	02/28/26 12:30	
Containers Supplied:			
(J)1 L Amber Glass - Non Preserved			

Standard TAT

JA 1430 3/4/25		UPS (Shipper)	
Released By	Date	Received By	Date
UPS (Shipper)			3/5/25 0951
Released By	Date	Received By	Date

Sample Receipt Check List Logged by: _____ (initials)

Ceres ID: 19230	Date/Time: 3/5/25 0901
Client Project ID: ASB 1800	Received Temp: 2.2 °C Acceptable: (Y) / N
Chain of Custody Relinquished by signed?	(Y) / N
Chain of Custody Received by signed?	(Y) / N
Custody Seals? Present?	Y / N
Intact?	Y / N
NA:	(NA)
Unlabeled / Illegible Samples	Y (N)
Proper Containers:	(Y) / N
Preservation Acceptable (Chemical or Temperature)?	(Y) / N
Drinking Water, Sodium Thiosulfate present?	Y / (N) / NA
Residual Cl?	Y / (N) / NA
Aqueous sample pH: 7	NA
List COC discrepancies: JK 3/5/25	
List Damaged Samples: JK 3/5/25	

Section VII: Qualifiers/Abbreviations

J	Concentration found below the lower quantitation limit but greater than zero.
B	Analyte present in the associated Method Blank.
E	Concentration found exceeds the Calibration range of the HRGC/HRMS.
D	This analyte concentration was calculated from a dilution.
X	The concentration found is the estimated maximum possible concentration due to chlorinated diphenyl ethers present in the sample.
H	Recovery limits exceeded. See cover letter.
*****	Results taken from dilution.
I	Interference. See cover letter.
Conc.	Concentration Found
DL	Calculated Detection Limit
ND	Non-Detect
% Rec.	Percent Recovery

March 14, 2025 Service Request No:K2502384

Darrell Auvil
Apex Laboratories
6700 SW Sandburg St.
Tigard, OR 97223

Laboratory Results for: A5B1800

Dear Darrell,

Enclosed are the results of the sample(s) submitted to our laboratory March 06, 2025
For your reference, these analyses have been assigned our service request number **K2502384.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3260. You may also contact me via email at Luke.Rahn@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Luke Rahn
Project Manager

ADDRESS 1317 S. 13th Avenue, Kelso, WA 98626
PHONE +1 360 577 7222 | FAX +1 360 636 1068
ALS Group USA, Corp.
dba ALS Environmental

Narrative Documents

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

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Client: Apex Laboratories
Project: A5B1800
Sample Matrix: Water

Service Request: K2502384
Date Received: 03/06/2025

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

One water sample was received for analysis at ALS Environmental on 03/06/2025. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The sample was stored at minimum in accordance with the analytical method requirements.

General Chemistry:

No significant anomalies were noted with this analysis.

Approved by _____ Date 03/14/2025

SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: T3-GW-58			Lab ID: K2502384-001			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Carbon, Total Organic	1.30		0.08	0.50	mg/L	SM 5310 C

Sample Receipt Information

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

Client: Apex Laboratories **Service Request:**K2502384
Project: A5B1800

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
K2502384-001	T3-GW-58	2/28/2025	1230

SUBCONTRACT ORDER 25023384

Apex Laboratories

A5B1800

RECD 3/3/25

SENDING LABORATORY:

Apex Laboratories
6700 S.W. Sandburg Street
Tigard, OR 97223
Phone: (503) 718-2323
Fax: (503) 336-0745
Project Manager: Darrell Auvil

RECEIVING LABORATORY:

ALS Group USA - Kelso
1317 S 13th Avenue
Kelso, WA 98626
Phone :(360) 577-7222
Fax: (360) 636-1068

Sample Name: T3-GW-58 **Sampled: 02/28/25 12:30** (A5B1800-01)

Analysis	Due	Expires	Comments
Total Organic Carbon - H2O (5310C)	03/13/25 17:00	03/28/25 12:30	
Containers Supplied:			
(E)250 mL Poly - Sulfuric (H2SO4)			

Standard TAT

Released By	Date	Received By	Date
[signature]	3/4/25 829	[signature]	3/6/25 829
Diane Price	3/6/25 1225	[signature]	03/06/25 1225

Cooler Receipt and Preservation Form

PM LR

Client Apex Service Request K25 02381

Received: 03 06 2025 Opened: 03 06 2025 By: AO Unloaded: 03 06 2025 By: AO

1. Samples were received via? *USPS* *Fed Ex* *UPS* *DHL* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) *Cooler* *Box* *Envelope* *Other* _____ *NA*
3. Were custody seals on coolers? NA Y N If yes, how many and where? _____
   If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Temp Blank	Sample Temp	IR Gun	Cooler #/COC ID (NA)	Out of temp indicate with "X"	PM Notified If out of temp	Tracking Number NA	Filed
—	3.1	IR06					

4. Was a Temperature Blank present in cooler? NA Y (N) If yes, notate the temperature in the appropriate column below:
   If no, take the temperature of a representative sample bottle contained within the cooler; notate in the column "Sample Temp":
5. Were samples received within the method specified temperature ranges? NA (Y) N
   If no, were they received on ice and same day as collected? If not, notate the cooler # below and notify the PM. (NA) Y N

If applicable, tissue samples were received: *Frozen* *Partially Thawed* *Thawed*

6. Packing material: *Inserts* (*Baggies*) *Bubble Wrap* *Gel Packs* (*Wet Ice*) *Dry Ice* *Sleeves* _____
7. Were custody papers properly filled out (ink, signed, etc.)? NA (Y) N
8. Were samples received in good condition (unbroken) NA (Y) N
9. Were all sample labels complete (ie, analysis, preservation, etc.)? NA (Y) N
10. Did all sample labels and tags agree with custody papers? NA (Y) N
11. Were appropriate bottles/containers and volumes received for the tests indicated? NA (Y) N
12. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* NA (Y) N
13. Were VOA vials received without headspace? *Indicate in the table below.* (NA) Y N
14. Was C12/Res negative? (NA) Y N
15. Were samples received within method specified time limit? If not, notate the error below and notify the PM. (NA) Y N
16. Were 100mL sterile microbiology bottles filled exactly to the 100mL mark? (NA) Y N Underfilled Overfilled

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count Bottle Type	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, Resolutions: _____

Q:\ENVIRONMENTAL\1 SOP & Policy Statements\SMO\CRF Update 2025-02-28.docx Updated: BJD 2/28/25

Miscellaneous Forms

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

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Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated value.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.
H	The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

#	The control limit criteria is not applicable.
J	The result is an estimated value.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.
Q	See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimated value over the calibration range.
J	The result is an estimated value between the MDL and the MRL.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses

Agency	Web Site	Number
Alaska DEH	http://dec.alaska.gov/eh/lab/cs/csapproval.htm	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L16-58-R4
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	http://health.hawaii.gov/	-
ISO 17025	http://www.pjlabs.com/	L16-57
Louisiana DEQ	http://www.deq.louisiana.gov/page/la-lab-accreditation	03016
Maine DHS	http://www.maine.gov/dhhs/	WA01276
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/enforcement/oqa.html	WA005
New York - DOH	https://www.wadsworth.org/regulatory/elap	12060
North Carolina DEQ	https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/EnvironmentalLabCertification/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wyoming (EPA Region 8)	https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water-	-
Kelso Laboratory Website	[illegible]	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.
Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/anlayte is offered by that state.

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Analyst Summary report

Client:	Apex Laboratories	**Service Request:**	K2502384
Project:	A5B1800/		

Sample Name:	T3-GW-58	**Date Collected:**	02/28/25
Lab Code:	K2502384-001	**Date Received:**	03/6/25
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
SM 5310 C		MSPECHT

Sample Results

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Analytical Report

Client:	Apex Laboratories	**Service Request:**	K2502384
Project:	A5B1800	**Date Collected:**	02/28/25 12:30
Sample Matrix:	Water	**Date Received:**	03/06/25 12:25
Sample Name:	T3-GW-58	**Basis:**	NA
Lab Code:	K2502384-001		

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Carbon, Total Organic	SM 5310 C	**1.30**	mg/L	0.50	0.08	1	03/12/25 14:33	

QC Summary Forms

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Analytical Report

Client:	Apex Laboratories	**Service Request:**	K2502384
Project:	A5B1800	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	K2502384-MB		

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Carbon, Total Organic	SM 5310 C	ND U	mg/L	0.50	0.08	1	03/12/25 14:33	

Client:	Apex Laboratories	**Service Request:**	K2502384
Project:	A5B1800	**Date Collected:**	02/28/25
Sample Matrix:	Water	**Date Received:**	03/06/25
		Date Analyzed:	03/12/25
		Date Extracted:	NA

Matrix Spike Summary
Carbon, Total Organic

Sample Name:	T3-GW-58	**Units:**	mg/L
Lab Code:	K2502384-001	**Basis:**	NA
Analysis Method:	SM 5310 C		
Prep Method:	None		

Matrix Spike
K2502384-001MS

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Carbon, Total Organic	1.30	22.7	25.0	86	83-117

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

Client:	Apex Laboratories	**Service Request:**	K2502384
Project	A5B1800	**Date Collected:**	02/28/25
Sample Matrix:	Water	**Date Received:**	03/06/25
		Date Analyzed:	03/12/25

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	T3-GW-58	**Units:**	mg/L
Lab Code:	K2502384-001	**Basis:**	NA

Analyte Name	Analysis Method	MRL	MDL	Sample Result	Duplicate Sample K2502384-001DUP Result	Average	RPD	RPD Limit
Carbon, Total Organic	SM 5310 C	0.50	0.08	1.30	1.30	1.30	<1	10

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client:	Apex Laboratories	**Service Request:**	K2502384
Project:	A5B1800	**Date Analyzed:**	03/12/25
Sample Matrix:	Water	**Date Extracted:**	NA

Lab Control Sample Summary
Carbon, Total Organic

Analysis Method:	SM 5310 C	**Units:**	mg/L
Prep Method:	None	**Basis:**	NA
		Analysis Lot:	872500

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K2502384-LCS	24.1	25.0	96	83-117

Apex Laboratories, LLC
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ANALYTICAL REPORT

AMENDED REPORT

Thursday, May 29, 2025

Mike Stevens
Apex Companies, LLC
15618 SW 72nd Ave
Tigard, OR 97224

RE: A5C0942 - Willamette Cove GW Source Control - 1056-17

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 A5C0942, which was received by the laboratory on 3/3/2025 at 3:02:00PM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: DAuvil@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 5.3 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

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Darrell Auvil, Client Services Manager

Apex Laboratories, LLC
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ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW Source Control**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Mike Stevens**	**A5C0942 - 05 29 25 1552**

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
T3-GW-70	**A5C0942-01**	**Water**	**03/03/25 12:11**	**03/03/25 15:02**

Apex Laboratories

Darrell Auvil, Client Services Manager

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ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW Source Control**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Mike Stevens**	**A5C0942 - 05 29 25 1552**

ANALYTICAL CASE NARRATIVE

A5C0942 **Apex Laboratories**

Amended Report Revision 1: This report supersedes all previous reports.

Reporting the Detection Limits (DL)-

The final report has been amended to report both PAH data by EPA 8270E and Chlorinated Pesticides by EPA 8081B to the detection limits (DL).

Darrell Auvil
Client Services Manager
5/29/2025

Apex Laboratories

Darrell Auvil, Client Services Manager

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ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW Source Control**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Mike Stevens**	**A5C0942 - 05 29 25 1552**

ANALYTICAL SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
T3-GW-70 (A5C0942-01RE1)				**Matrix: Water**		**Batch: 25C0330**		**C-05, DCNT**
2,4'-DDD	ND	0.0102	0.0204	ug/L	1	03/11/25 16:14	EPA 8081B	
2,4'-DDE	ND	0.0102	0.0204	ug/L	1	03/11/25 16:14	EPA 8081B	
2,4'-DDT	ND	0.0102	0.0204	ug/L	1	03/11/25 16:14	EPA 8081B	
4,4'-DDD	ND	0.0102	0.0204	ug/L	1	03/11/25 16:14	EPA 8081B	
4,4'-DDE	ND	0.0102	0.0204	ug/L	1	03/11/25 16:14	EPA 8081B	
4,4'-DDT	ND	0.0102	0.0204	ug/L	1	03/11/25 16:14	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr)		*Recovery:*	*54 %*	*Limits: 25-140 %*	*1*	*03/11/25 16:14*	*EPA 8081B*	
Decachlorobiphenyl (Surr)			*89 %*	*30-135 %*	*1*	*03/11/25 16:14*	*EPA 8081B*	

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ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW Source Control**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Mike Stevens**	**A5C0942 - 05 29 25 1552**

ANALYTICAL SAMPLE RESULTS

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
T3-GW-70 (A5C0942-01)				**Matrix: Water**		**Batch: 25C0168**		**DCNT**
Acenaphthene	**0.257**	0.0168	0.0336	ug/L	1	03/05/25 19:00	EPA 8270E LVI	
Acenaphthylene	ND	0.0734	0.0734	ug/L	1	03/05/25 19:00	EPA 8270E LVI	Q-30, R-02
Anthracene	**0.188**	0.0168	0.0336	ug/L	1	03/05/25 19:00	EPA 8270E LVI	
Benz(a)anthracene	**0.0537**	0.00839	0.0168	ug/L	1	03/05/25 19:00	EPA 8270E LVI	
Benzo(a)pyrene	**0.0457**	0.00839	0.0168	ug/L	1	03/05/25 19:00	EPA 8270E LVI	
Benzo(b)fluoranthene	**0.0483**	0.00839	0.0168	ug/L	1	03/05/25 19:00	EPA 8270E LVI	
Benzo(k)fluoranthene	**0.0147**	0.00839	0.0168	ug/L	1	03/05/25 19:00	EPA 8270E LVI	**J**
Benzo(g,h,i)perylene	**0.0369**	0.0168	0.0336	ug/L	1	03/05/25 19:00	EPA 8270E LVI	
Chrysene	**0.0743**	0.00839	0.0168	ug/L	1	03/05/25 19:00	EPA 8270E LVI	
Dibenz(a,h)anthracene	ND	0.00839	0.0168	ug/L	1	03/05/25 19:00	EPA 8270E LVI	
Fluoranthene	**0.497**	0.0168	0.0336	ug/L	1	03/05/25 19:00	EPA 8270E LVI	
Fluorene	**0.244**	0.0168	0.0336	ug/L	1	03/05/25 19:00	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	**0.0340**	0.00839	0.0168	ug/L	1	03/05/25 19:00	EPA 8270E LVI	
1-Methylnaphthalene	**0.115**	0.0336	0.0671	ug/L	1	03/05/25 19:00	EPA 8270E LVI	
2-Methylnaphthalene	**0.122**	0.0336	0.0671	ug/L	1	03/05/25 19:00	EPA 8270E LVI	
Naphthalene	**0.323**	0.0336	0.0671	ug/L	1	03/05/25 19:00	EPA 8270E LVI	
Phenanthrene	**1.17**	0.0336	0.0671	ug/L	1	03/05/25 19:00	EPA 8270E LVI	
Pyrene	**0.592**	0.0168	0.0336	ug/L	1	03/05/25 19:00	EPA 8270E LVI	
Dibenzofuran	**0.0231**	0.0168	0.0336	ug/L	1	03/05/25 19:00	EPA 8270E LVI	**J**
Surrogate: Acenaphthylene-d8 (Surr)		*Recovery:*	*81 %*	*Limits:*	*78-134 %*	*03/05/25 19:00*	*EPA 8270E LVI*	
Benzo(a)pyrene-d12 (Surr)			*104 %*		*80-132 %*	*03/05/25 19:00*	*EPA 8270E LVI*	

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Darrell Auvil, Client Services Manager

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW Source Control**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Mike Stevens**	**A5C0942 - 05 29 25 1552**

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
T3-GW-70 (A5C0942-01)				**Matrix: Water**				
Batch: 25C0929								
Arsenic	**22.3**	---	1.00	ug/L	1	03/24/25 22:03	EPA 6020B	**Q-39, Q-42**
T3-GW-70 (A5C0942-01RE1)				**Matrix: Water**				
Batch: 25C0929								
Iron	**149000**	---	500	ug/L	10	03/25/25 15:16	EPA 6020B	**Q-39, Q-42**
Manganese	**5120**	---	10.0	ug/L	10	03/25/25 15:16	EPA 6020B	

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ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW Source Control**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Mike Stevens**	**A5C0942 - 05 29 25 1552**

ANALYTICAL SAMPLE RESULTS

Dissolved Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
T3-GW-70 (A5C0942-01)				**Matrix: Water**				
Batch: 25C0640								
Arsenic	**1.13**	---	1.00	ug/L	1	03/18/25 01:32	EPA 6020B (Diss)	
Iron	ND	---	50.0	ug/L	1	03/18/25 01:32	EPA 6020B (Diss)	
Manganese	**341**	---	1.00	ug/L	1	03/18/25 01:32	EPA 6020B (Diss)	

Apex Laboratories

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ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW Source Control**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Mike Stevens**	**A5C0942 - 05 29 25 1552**

ANALYTICAL SAMPLE RESULTS

Anions by Ion Chromatography

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
T3-GW-70 (A5C0942-01)				**Matrix: Water**				
Batch: 25C0083								
Nitrate-Nitrogen	**4.71**	---	0.250	mg/L	1	03/04/25 12:31	EPA 300.0	
Sulfate	**15.6**	---	1.00	mg/L	1	03/04/25 12:31	EPA 300.0	

Apex Laboratories

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Darrell Auvil, Client Services Manager

Apex Laboratories, LLC

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Apex Companies, LLC	Project: **Willamette Cove GW Source Control**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Mike Stevens**	**A5C0942 - 05 29 25 1552**

QUALITY CONTROL (QC) SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25C0330 - EPA 3510C (Neutral pH)/3640A (GPC)									**Water**			
Blank (25C0330-BLK1)			Prepared: 03/06/25 11:42		Analyzed: 03/11/25 14:30							**C-05**
EPA 8081B												
2,4'-DDD	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
2,4'-DDE	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
2,4'-DDT	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
4,4'-DDD	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
4,4'-DDE	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
4,4'-DDT	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 44 %*		*Limits: 25-140 %*				*Dilution: 1x*			
Decachlorobiphenyl (Surr)			*83 %*		*30-135 %*				*"*			
LCS (25C0330-BS1)			Prepared: 03/06/25 11:42		Analyzed: 03/11/25 14:47							**C-05**
EPA 8081B												
2,4'-DDD	0.553	0.0100	0.0200	ug/L	1	0.500	---	111	66-120%	---	---	
2,4'-DDE	0.455	0.0100	0.0200	ug/L	1	0.500	---	91	55-120%	---	---	
2,4'-DDT	0.602	0.0100	0.0200	ug/L	1	0.500	---	120	62-127%	---	---	
4,4'-DDD	0.553	0.0100	0.0200	ug/L	1	0.500	---	111	56-143%	---	---	
4,4'-DDE	0.460	0.0100	0.0200	ug/L	1	0.500	---	92	57-135%	---	---	
4,4'-DDT	0.603	0.0100	0.0200	ug/L	1	0.500	---	121	51-143%	---	---	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 39 %*		*Limits: 25-140 %*				*Dilution: 1x*			
Decachlorobiphenyl (Surr)			*75 %*		*30-135 %*				*"*			
LCS Dup (25C0330-BSD1)			Prepared: 03/06/25 11:42		Analyzed: 03/11/25 15:05							**C-05, Q-19**
EPA 8081B												
2,4'-DDD	0.569	0.0100	0.0200	ug/L	1	0.500	---	114	66-120%	3	30%	
2,4'-DDE	0.478	0.0100	0.0200	ug/L	1	0.500	---	96	55-120%	5	30%	
2,4'-DDT	0.622	0.0100	0.0200	ug/L	1	0.500	---	124	62-127%	3	30%	
4,4'-DDD	0.573	0.0100	0.0200	ug/L	1	0.500	---	115	56-143%	3	30%	
4,4'-DDE	0.498	0.0100	0.0200	ug/L	1	0.500	---	100	57-135%	8	30%	
4,4'-DDT	0.623	0.0100	0.0200	ug/L	1	0.500	---	125	51-143%	3	30%	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 45 %*		*Limits: 25-140 %*				*Dilution: 1x*			
Decachlorobiphenyl (Surr)			*83 %*		*30-135 %*				*"*			

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Darrell Auvil, Client Services Manager

Apex Laboratories, LLC

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

Apex Companies, LLC	Project: **Willamette Cove GW Source Control**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Mike Stevens**	**A5C0942 - 05 29 25 1552**

QUALITY CONTROL (QC) SAMPLE RESULTS

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25C0168 - EPA 3511 (Bottle Extraction)								**Water**				
Blank (25C0168-BLK1)			Prepared: 03/05/25 09:42 Analyzed: 03/05/25 14:21									
EPA 8270E LVI												
Acenaphthene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Acenaphthylene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	Q-30
Anthracene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Benz(a)anthracene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Chrysene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Fluoranthene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Fluorene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
1-Methylnaphthalene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
2-Methylnaphthalene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
Phenanthrene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
Pyrene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Carbazole	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Dibenzofuran	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Surr: Acenaphthylene-d8 (Surr)			*Recovery: 81 %*		*Limits: 78-134 %*			*Dilution: 1x*				
Benzo(a)pyrene-d12 (Surr)			*99 %*		*80-132 %*			*"*				
LCS (25C0168-BS1)			Prepared: 03/05/25 09:42 Analyzed: 03/05/25 14:56									
EPA 8270E LVI												
Acenaphthene	1.54	0.0160	0.0320	ug/L	1	1.60	---	96	80-120%	---	---	
Acenaphthylene	1.36	0.0160	0.0320	ug/L	1	1.60	---	85	80-124%	---	---	Q-30
Anthracene	1.43	0.0160	0.0320	ug/L	1	1.60	---	90	80-123%	---	---	
Benz(a)anthracene	1.50	0.00800	0.0160	ug/L	1	1.60	---	94	80-122%	---	---	
Benzo(a)pyrene	1.60	0.00800	0.0160	ug/L	1	1.60	---	100	80-129%	---	---	
Benzo(b)fluoranthene	1.49	0.00800	0.0160	ug/L	1	1.60	---	93	80-124%	---	---	
Benzo(k)fluoranthene	1.53	0.00800	0.0160	ug/L	1	1.60	---	96	80-125%	---	---	
Benzo(g,h,i)perylene	1.40	0.0160	0.0320	ug/L	1	1.60	---	88	80-120%	---	---	

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ORELAP ID: **OR100062**

Apex Companies, LLC	Project: **Willamette Cove GW Source Control**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Mike Stevens**	**A5C0942 - 05 29 25 1552**

QUALITY CONTROL (QC) SAMPLE RESULTS

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25C0168 - EPA 3511 (Bottle Extraction)							**Water**					
LCS (25C0168-BS1)			Prepared: 03/05/25 09:42	Analyzed: 03/05/25 14:56								
Chrysene	1.41	0.00800	0.0160	ug/L	1	1.60	---	88	80-120%	---	---	
Dibenz(a,h)anthracene	1.43	0.00800	0.0160	ug/L	1	1.60	---	90	80-120%	---	---	
Fluoranthene	1.39	0.0160	0.0320	ug/L	1	1.60	---	87	80-126%	---	---	
Fluorene	1.63	0.0160	0.0320	ug/L	1	1.60	---	102	77-127%	---	---	
Indeno(1,2,3-cd)pyrene	1.38	0.00800	0.0160	ug/L	1	1.60	---	86	80-121%	---	---	
1-Methylnaphthalene	1.36	0.0320	0.0640	ug/L	1	1.60	---	85	53-148%	---	---	
2-Methylnaphthalene	1.37	0.0320	0.0640	ug/L	1	1.60	---	85	48-150%	---	---	
Naphthalene	1.53	0.0320	0.0640	ug/L	1	1.60	---	96	78-120%	---	---	
Phenanthrene	1.42	0.0320	0.0640	ug/L	1	1.60	---	89	80-120%	---	---	
Pyrene	1.37	0.0160	0.0320	ug/L	1	1.60	---	86	80-125%	---	---	
Carbazole	1.67	0.0160	0.0320	ug/L	1	1.60	---	104	65-141%	---	---	
Dibenzofuran	1.41	0.0160	0.0320	ug/L	1	1.60	---	88	76-121%	---	---	
Surr: Acenaphthylene-d8 (Surr)			*Recovery: 80 %*	*Limits: 78-134 %*			*Dilution: 1x*					
Benzo(a)pyrene-d12 (Surr)			*98 %*	*80-132 %*			*"*					
LCS Dup (25C0168-BSD1)			Prepared: 03/05/25 09:42	Analyzed: 03/05/25 15:31								**Q-19**
EPA 8270E LVI												
Acenaphthene	1.43	0.0160	0.0320	ug/L	1	1.60	---	89	80-120%	8	30%	
Acenaphthylene	1.24	0.0160	0.0320	ug/L	1	1.60	---	**78**	**80-124%**	9	30%	Q-30
Anthracene	1.32	0.0160	0.0320	ug/L	1	1.60	---	83	80-123%	8	30%	
Benz(a)anthracene	1.38	0.00800	0.0160	ug/L	1	1.60	---	86	80-122%	8	30%	
Benzo(a)pyrene	1.47	0.00800	0.0160	ug/L	1	1.60	---	92	80-129%	8	30%	
Benzo(b)fluoranthene	1.41	0.00800	0.0160	ug/L	1	1.60	---	88	80-124%	6	30%	
Benzo(k)fluoranthene	1.41	0.00800	0.0160	ug/L	1	1.60	---	88	80-125%	8	30%	
Benzo(g,h,i)perylene	1.30	0.0160	0.0320	ug/L	1	1.60	---	82	80-120%	7	30%	
Chrysene	1.29	0.00800	0.0160	ug/L	1	1.60	---	81	80-120%	9	30%	
Dibenz(a,h)anthracene	1.33	0.00800	0.0160	ug/L	1	1.60	---	83	80-120%	8	30%	
Fluoranthene	1.30	0.0160	0.0320	ug/L	1	1.60	---	81	80-126%	7	30%	
Fluorene	1.51	0.0160	0.0320	ug/L	1	1.60	---	95	77-127%	8	30%	
Indeno(1,2,3-cd)pyrene	1.28	0.00800	0.0160	ug/L	1	1.60	---	80	80-121%	7	30%	
1-Methylnaphthalene	1.32	0.0320	0.0640	ug/L	1	1.60	---	82	53-148%	3	30%	
2-Methylnaphthalene	1.29	0.0320	0.0640	ug/L	1	1.60	---	81	48-150%	5	30%	
Naphthalene	1.43	0.0320	0.0640	ug/L	1	1.60	---	89	78-120%	7	30%	
Phenanthrene	1.32	0.0320	0.0640	ug/L	1	1.60	---	83	80-120%	7	30%	

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Apex Companies, LLC	Project: **Willamette Cove GW Source Control**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Mike Stevens**	**A5C0942 - 05 29 25 1552**

QUALITY CONTROL (QC) SAMPLE RESULTS

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25C0168 - EPA 3511 (Bottle Extraction)							**Water**					
LCS Dup (25C0168-BSD1)			Prepared: 03/05/25 09:42		Analyzed: 03/05/25 15:31							**Q-19**
Pyrene	1.27	0.0160	0.0320	ug/L	1	1.60	---	80	80-125%	7	30%	
Carbazole	1.53	0.0160	0.0320	ug/L	1	1.60	---	96	65-141%	9	30%	
Dibenzofuran	1.31	0.0160	0.0320	ug/L	1	1.60	---	82	76-121%	8	30%	
Surr: Acenaphthylene-d8 (Surr)			*Recovery: 78 %*		*Limits: 78-134 %*				*Dilution: 1x*			
Benzo(a)pyrene-d12 (Surr)			*98 %*		*80-132 %*				*"*			

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15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Mike Stevens**	**A5C0942 - 05 29 25 1552**

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 25C0929 - EPA 3015A								**Water**				
Blank (25C0929-BLK1)			Prepared: 03/24/25 09:01		Analyzed: 03/24/25 21:47							
EPA 6020B												
Arsenic	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Iron	ND	---	50.0	ug/L	1	---	---	---	---	---	---	
Manganese	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
LCS (25C0929-BS1)			Prepared: 03/24/25 09:01		Analyzed: 03/24/25 21:52							
EPA 6020B												
Arsenic	57.2	---	1.00	ug/L	1	55.6	---	103	80-120%	---	---	
Iron	5670	---	50.0	ug/L	1	5560	---	102	80-120%	---	---	
Manganese	57.1	---	1.00	ug/L	1	55.6	---	103	80-120%	---	---	
Duplicate (25C0929-DUP1)			Prepared: 03/24/25 09:01		Analyzed: 03/24/25 22:08							
QC Source Sample: T3-GW-70 (A5C0942-01)												
EPA 6020B												
Arsenic	**38.2**	---	1.00	ug/L	1	---	22.3	---	---	**53**	**20%**	Q-04
Duplicate (25C0929-DUP2)			Prepared: 03/24/25 09:01		Analyzed: 03/25/25 15:21							
QC Source Sample: T3-GW-70 (A5C0942-01RE1)												
EPA 6020B												
Iron	**202000**	---	500	ug/L	10	---	149000	---	---	**30**	**20%**	Q-04, Q-16
Manganese	**5090**	---	10.0	ug/L	10	---	5120	---	---	0.4	20%	Q-16
Matrix Spike (25C0929-MS1)			Prepared: 03/24/25 09:01		Analyzed: 03/24/25 22:14							
QC Source Sample: T3-GW-70 (A5C0942-01)												
EPA 6020B												
Arsenic	81.4	---	1.00	ug/L	1	55.6	22.3	106	75-125%	---	---	
Iron	169000	---	50.0	ug/L	1	5560	142000	**490**	**75-125%**	---	---	E, Q-65
Manganese	4950	---	1.00	ug/L	1	55.6	4800	**268**	**75-125%**	---	---	E, Q-65

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Apex Companies, LLC	Project: **Willamette Cove GW Source Control**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Mike Stevens**	**A5C0942 - 05 29 25 1552**

QUALITY CONTROL (QC) SAMPLE RESULTS

Dissolved 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 25C0640 - Matrix Matched Direct Inject								**Water**				
Blank (25C0640-BLK1)			Prepared: 03/17/25 10:33		Analyzed: 03/18/25 00:26							
EPA 6020B (Diss)												
Arsenic	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Iron	ND	---	50.0	ug/L	1	---	---	---	---	---	---	
Manganese	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
LCS (25C0640-BS1)			Prepared: 03/17/25 10:33		Analyzed: 03/18/25 00:32							
EPA 6020B (Diss)												
Arsenic	54.0	---	1.00	ug/L	1	55.6	---	97	80-120%	---	---	
Iron	5830	---	50.0	ug/L	1	5560	---	105	80-120%	---	---	
Manganese	56.0	---	1.00	ug/L	1	55.6	---	101	80-120%	---	---	
Duplicate (25C0640-DUP1)			Prepared: 03/17/25 10:33		Analyzed: 03/18/25 00:54							
QC Source Sample: Non-SDG (A5B1416-01)												
Arsenic	ND	---	1.00	ug/L	1	---	0.556	---	---	***	20%	
Iron	**53.7**	---	50.0	ug/L	1	---	81.8	---	---	**41**	**20%**	Q-05
Manganese	**3.93**	---	1.00	ug/L	1	---	4.00	---	---	2	20%	
Matrix Spike (25C0640-MS1)			Prepared: 03/17/25 10:33		Analyzed: 03/18/25 00:59							
QC Source Sample: Non-SDG (A5B1416-01)												
EPA 6020B (Diss)												
Arsenic	53.7	---	1.00	ug/L	1	55.6	0.556	96	75-125%	---	---	
Iron	6420	---	50.0	ug/L	1	5560	81.8	114	75-125%	---	---	
Manganese	58.7	---	1.00	ug/L	1	55.6	4.00	99	75-125%	---	---	

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ORELAP ID: OR100062

ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW Source Control**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Mike Stevens**	**A5C0942 - 05 29 25 1552**

QUALITY CONTROL (QC) SAMPLE RESULTS

Anions by Ion Chromatography

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25C0083 - Method Prep: Aq									Water			
Blank (25C0083-BLK1)			Prepared: 03/04/25 08:29		Analyzed: 03/04/25 10:00							
EPA 300.0												
Nitrate-Nitrogen	ND	---	0.250	mg/L	1	---	---	---	---	---	---	
Sulfate	ND	---	1.00	mg/L	1	---	---	---	---	---	---	
LCS (25C0083-BS1)			Prepared: 03/04/25 08:29		Analyzed: 03/04/25 10:22							
EPA 300.0												
Nitrate-Nitrogen	1.87	---	0.250	mg/L	1	2.00	---	94	90-110%	---	---	
Sulfate	7.36	---	1.00	mg/L	1	8.00	---	92	90-110%	---	---	
Duplicate (25C0083-DUP1)			Prepared: 03/04/25 08:29		Analyzed: 03/04/25 11:05							
QC Source Sample: Non-SDG (A5B1749-02RE1)												
Nitrate-Nitrogen	**1.22**	---	0.500	mg/L	2	---	1.23	---	---	0.5	10%	
Sulfate	**49.2**	---	2.00	mg/L	2	---	49.7	---	---	0.9	10%	
Matrix Spike (25C0083-MS1)			Prepared: 03/04/25 08:29		Analyzed: 03/04/25 11:26							
QC Source Sample: Non-SDG (A5B1749-02RE1)												
EPA 300.0												
Nitrate-Nitrogen	4.96	---	0.500	mg/L	2	4.00	1.23	93	87-112%	---	---	
Sulfate	63.8	---	2.00	mg/L	2	16.0	49.7	88	88-115%	---	---	

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SAMPLE PREPARATION INFORMATION

Organochlorine Pesticides by EPA 8081B

Prep: EPA 3510C (Neutral pH)/3640A (GPC)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25C0330							
A5C0942-01RE1	Water	EPA 8081B	03/03/25 12:11	03/06/25 11:42	980mL/10mL	1000mL/5mL	2.04

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Prep: EPA 3511 (Bottle Extraction)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25C0168							
A5C0942-01	Water	EPA 8270E LVI	03/03/25 12:11	03/05/25 09:42	119.14mL/5mL	125mL/5mL	1.05

Total Metals by EPA 6020B (ICPMS)

Prep: EPA 3015A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25C0929							
A5C0942-01	Water	EPA 6020B	03/03/25 12:11	03/24/25 09:01	45mL/50mL	45mL/50mL	1.00
A5C0942-01RE1	Water	EPA 6020B	03/03/25 12:11	03/24/25 09:01	45mL/50mL	45mL/50mL	1.00

Dissolved Metals by EPA 6020B (ICPMS)

Prep: Matrix Matched Direct Inject

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25C0640							
A5C0942-01	Water	EPA 6020B (Diss)	03/03/25 12:11	03/17/25 10:33	45mL/50mL	45mL/50mL	1.00

Anions by Ion Chromatography

Prep: Method Prep: Aq

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25C0083							
A5C0942-01	Water	EPA 300.0	03/03/25 12:11	03/04/25 08:29	5mL/5mL	5mL/5mL	1.00

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ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW Source Control**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Mike Stevens**	**A5C0942 - 05 29 25 1552**

QUALIFIER DEFINITIONS

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

Apex Laboratories

C-05	Extract has undergone a GPC (Gel-Permeation Chromatography) cleanup per EPA 3640A. Reporting levels may be raised due to dilution necessary for cleanup. Sample Final Volume includes the GPC dilution factor, see the Prep page for details.
DCNT	Sample decanted due to the presence of sediment in water samples, or water in sediment or soil samples. (Note: Decanted aqueous sample bottles are not solvent rinsed.)
E	Estimated Value. The result is above the calibration range of the instrument.
J	Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified DL.
Q-04	Spike recovery and/or RPD is outside control limits due to a non-homogeneous sample matrix.
Q-05	Analyses are not controlled on RPD values from sample and duplicate concentrations that are below 5 times the reporting level.
Q-16	Reanalysis of an original Batch QC sample.
Q-19	Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis.
Q-30	Recovery for Lab Control Spike (LCS) is below the lower control limit. Data may be biased low.
Q-39	Results for sample duplicate are higher than the sample results. See duplicate results in QC section of the report.
Q-42	Matrix Spike and/or Duplicate analysis was performed on this sample. % Recovery or RPD for this analyte is outside laboratory control limits. (Refer to the QC Section of Analytical Report.)
Q-65	Spike recovery is estimated due to the high analyte concentration of the source sample.
R-02	The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.

Apex Laboratories

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Darrell Auvil, Client Services Manager

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

ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW Source Control**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Mike Stevens**	**A5C0942 - 05 29 25 1552**

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)

Validated 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 and Detection Limits: Default Limits

Default Reporting and Detection Limits are based on 100% dry weight with the minimum dilution for the analysis. Reporting and Detection Limits are raised due to moisture content, additional dilutions required for analysis, matrix interferences and in other cases, as necessary.

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).

Apex Laboratories

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Apex Companies, LLC	Project:	**Willamette Cove GW Source Control**	
15618 SW 72nd Ave	Project Number:	**1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager:	**Mike Stevens**	**A5C0942 - 05 29 25 1552**

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to one half of the Reporting Limit (RL).
Blank results for gravimetric analyses are evaluated to the Reporting Level, not to half of the Reporting Level.
-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.

Apex Laboratories

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Apex Companies, LLC	Project:	**Willamette Cove GW Source Control**	
15618 SW 72nd Ave	Project Number:	**1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager:	**Mike Stevens**	**A5C0942 - 05 29 25 1552**

Decanted Samples:

Soils/Sediments:
Unless TCLP analysis is required or there is notification otherwise for a specific project, all Soil and Sediments containing excess water are decanted prior to analysis in order to provide the most representative sample for analysis.

Water Samples:
Water samples containing solids and sediment may need to be decanted in order to eliminate these particulates from the water extractions. In the case of organics extractions, a solvent rinse of the container will not be performed.

Volatiles Soils (5035s)
Samples that are field preserved by 5035 for volatiles are dry weight corrected using the same dry weight corretion as for normal analyses. In the case of decanted samples, the dry weight may be performed on a decanted sample, while the aliquot for 5035 may not have been treated the same way. If this is a concern, please submit separate containers for dry weight analysis for volatiles can be provided.

All samples decanted in the laboratory are noted in this report with the DCNT qualifier indicating the sample was decanted.

Apex Laboratories

Darrell Auvil, Client Services Manager

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Apex Laboratories, LLC

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Apex Companies, LLC	Project: **Willamette Cove GW Source Control**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Mike Stevens**	**A5C0942 - 05 29 25 1552**

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

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

Secondary Accreditations

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

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.
Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

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

Apex Laboratories

Darrell Auvil, Client Services Manager

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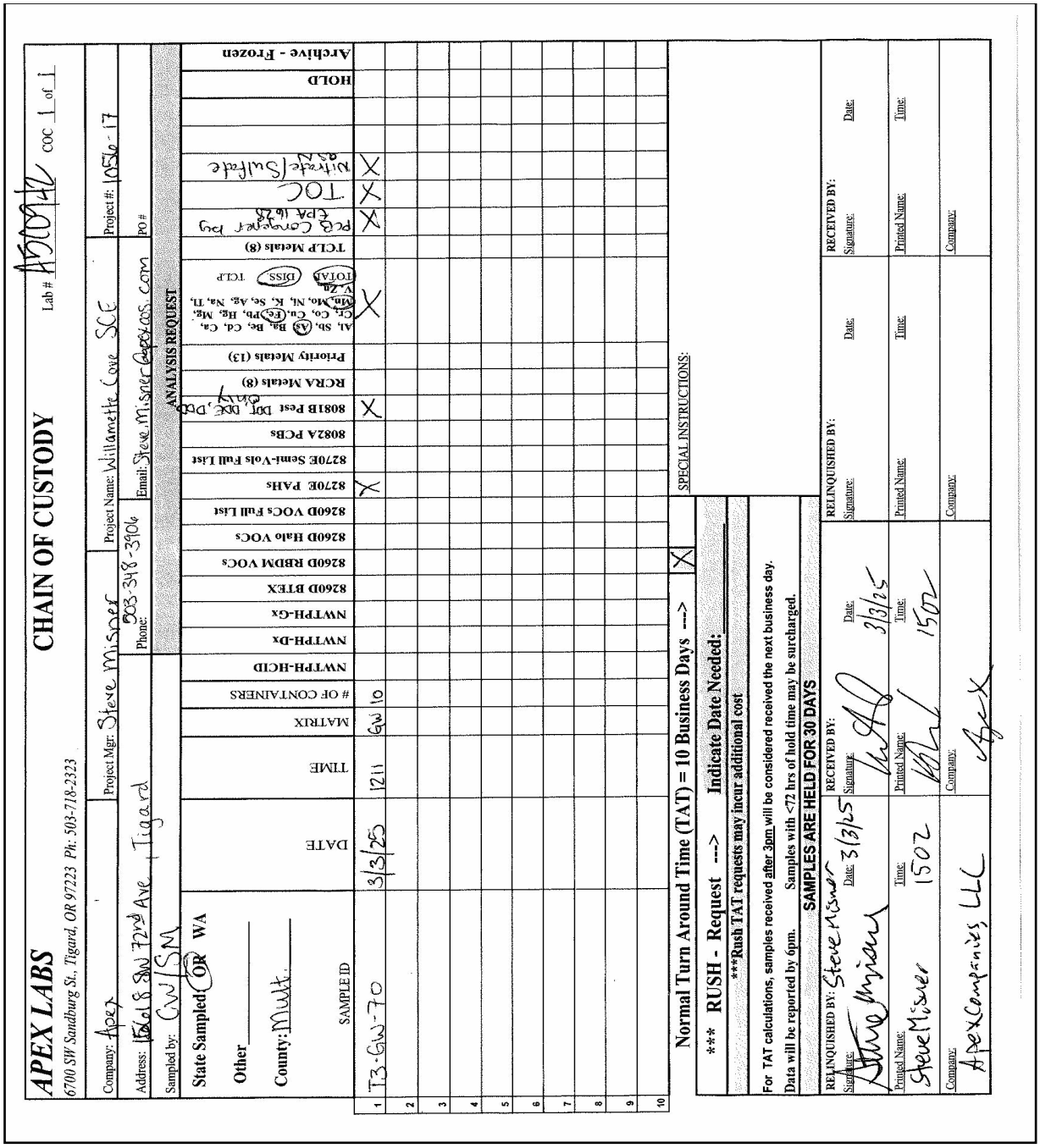
ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW Source Control**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Mike Stevens**	**A5C0942 - 05 29 25 1552**



APEX LABS — 6700 SW Sandburg St., Tigard, OR 97223 Ph: 503-718-2323

CHAIN OF CUSTODY — Lab # A5C0942 — COC 1 of 1

Company: Apex | Project Mgr: Steve Misner | Project Name: Willamette Cove SCE | Project #: 1056-17
Address: 15618 SW 72nd Ave, Tigard | Phone: 503-348-3906 | Email: Steve.Misner@apexcos.com | PO #
Sampled by: CW/SM

State Sampled: OR WA
Other ____
County: Mult.

ANALYSIS REQUEST

	SAMPLE ID	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID	NWTPH-Dx	NWTPH-Gx	8260D BTEX	8260D RBDM VOCs	8260D Halo VOCs	8260D VOCs Full List	8270E PAHs	8270E Semi-Vols Full List	8082A PCBs	8081B Pest DDT, DDE, DDD	RCRA Metals (8)	Priority Metals (13)	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Hg, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Tl, V, Zn — TOTAL / DISS / TCLP	TCLP Metals (8)	PCB Congener by EPA 1668	TOC	Nitrate/Sulfate	HOLD	Archive - Frozen
1	T3-GW-70	3/3/25	1211	GW	10								X			X			X		X	X			
2																									
3																									
4																									
5																									
6																									
7																									
8																									
9																									
10																									

SPECIAL INSTRUCTIONS:

Normal Turn Around Time (TAT) = 10 Business Days ---> X

***** RUSH - Request ---> Indicate Date Needed: _____**

*****Rush TAT requests may incur additional cost**

For TAT calculations, samples received after 3pm will be considered received the next business day.
Data will be reported by 6pm. Samples with <72 hrs of hold time may be surcharged.

SAMPLES ARE HELD FOR 30 DAYS

	RELINQUISHED BY:	RECEIVED BY:	Date:
Signature:	Steve Misner		3/3/25
Printed Name:	Steve Misner		Time: 1502
Company:	Apex Companies, LLC		

	RELINQUISHED BY:	RECEIVED BY:	Date:
Signature:			
Printed Name:			Time:
Company:			

	RELINQUISHED BY:	RECEIVED BY:	Date:
Signature:			
Printed Name:			Time:
Company:			

Apex Laboratories

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Apex Companies, LLC	Project: **Willamette Cove GW Source Control**	
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Tigard, OR 97224	Project Manager: **Mike Stevens**	**A5C0942 - 05 29 25 1552**

APEX LABS COOLER RECEIPT FORM

Client: Apex Companies Element WO#: A5 C0942

Project/Project #: Willamette Cove SCE / 1056-17

Delivery Info:

Date/time received: 3/3/25 @ 1502 By: KMS

Delivered by: Apex__Client X ESS__FedEx__UPS__Radio__Morgan__SDS__Evergreen__Other__

From USDA Regulated Origin? Yes _____ No X

Cooler Inspection Date/time inspected: 3/3/25 @ 1502 By: KMS

Chain of Custody included? Yes Y No _____

Signed/dated by client? Yes Y No _____

Contains USDA Reg. Soils? Yes _____ No X Unsure (email RegSoils) _____

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	5.3						
Custody seals? (Y/N)	N						
Received on ice? (Y/N)	Y						
Temp. blanks? (Y/N)	Y						
Ice type: (Gel/Real/Other)	Real						
Condition (In/Out):	In						

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: 3/3/25 @ 1520 By: JS

All samples intact? Yes X No ___ Comments: _____

Bottle labels/COCs agree? Yes Y No ___ Comments: _____

COC/container discrepancies form initiated? Yes ___ No X

Containers/volumes received appropriate for analysis? Yes X No ___ Comments: _____

Do VOA vials have visible headspace? Yes ___ No ___ NA X

Comments _____

Water samples: pH checked: Yes X No___NA___ pH appropriate? Yes X No___NA___ pH ID: A23I172

Comments: _____

Labeled by: JS Witness: KMS Cooler Inspected by: JS

Form Y-003 R-02

Apex Laboratories

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Darrell Auvil, Client Services Manager

CERES Analytical Laboratory, Inc.
4919 Windplay Dr. Suite 1, El Dorado Hills, CA 95762

March 21, 2025 Ceres ID: 19231

Apex Laboratories
6700 S.W. Sandburg Street
Tigard, OR 97223

The following report contains the results for the one aqueous sample received on March 5, 2025. This sample was analyzed for congener PCBs by EPA method 1668C. Standard 3-week turn-around time was provided for this work.

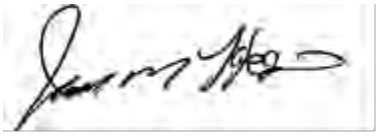
This work was authorized under Apex Laboratories' Project # A5C0942.

Continuing Calibration Verification (CCV) Requirements
All associated calibration verification standard(s) (CCV) met the acceptance criteria.

The report consists of a Cover Letter, Sample Inventory (Section I), Data Summary (Section II), Sample Tracking (Section VI), and Qualifiers/Abbreviations (Section VII). Raw Data (Section III), Continuing Calibration (Section IV), and Initial Calibration (Section V) are available in a full report (.pdf format) upon request.

If you have any questions regarding this report, please feel free to contact me at (916)932-5011.

Sincerely,



James M. Hedin
Director of Operations/CEO
jhedin@ceres-lab.com

Section I: Sample Inventory

Ceres Sample ID:	Sample ID	Date Received	Collection Date	&Time
19231-001	T3-GW-70	3/5/2025	3/3/2025	12:11

Section II: Data Summary

Sample ID: Method Blank

	Ceres ID:	0-3442-MB		**Date Received:**	NA
Project ID:	A5C0942	**QC Batch #:**	3442	**Date Extracted:**	14-Mar-25
Matrix:	Aqueous	**Sample Size:**	1.000 L	**Analyzed Date:**	15-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2-MoCB	1	ND		20.0	2.08
3-MoCB	2	ND		20.0	3.49
4-MoCB	3	ND		20.0	3.49
2,2'-/2,6-DiCB	4/10	ND		20.0	8.07
2,4-/2,5-DiCB	7/9	ND		20.0	8.07
2,3'-DiCB	6	ND		20.0	8.07
2,3-/2,4'-DiCB	5/8	ND		20.0	8.07
3,5-DiCB	14	ND		20.0	8.31
3,3'-DiCB	11	ND		20.0	8.31
3,4-/3,4'-DiCB	12/13	ND		20.0	8.31
4,4'-DiCB	15	ND		20.0	8.31
2,2',6-TrCB	19	ND		20.0	4.97
2,4,6-TrCB	30	ND		20.0	4.97
2,2',5-TrCB	18	ND		20.0	4.97
2,2',4-TrCB	17	ND		20.0	4.97
2,3,6-/2,3',6-TrCB	24/27	ND		20.0	4.97
2,2',3-/2,4',6-TrCB	16/32	ND		20.0	4.97
2',3,5-TrCB	34	ND		20.0	5.86
2,3,5-TrCB	23	ND		20.0	5.86
2,4,5-TrCB	29	ND		20.0	5.86
2,3',5-TrCB	26	ND		20.0	5.86
2,3',4-TrCB	25	ND		20.0	5.86
2,4',5-TrCB	31	ND		20.0	5.86
2,4,4'-TrCB	28	ND		20.0	5.86
2,3,3'-/2,3,4-/2',3,4-TrCB	20/21/33	ND		20.0	5.86
2,3,4'-TrCB	22	ND		20.0	5.86
3,3',5-TrCB	36	ND		20.0	5.86
3,4',5-TrCB	39	ND		20.0	5.86
3,4,5-TrCB	38	ND		20.0	5.86
3,3',4-TrCB	35	ND		20.0	5.86
3,4,4'-TrCB	37	ND		20.0	5.86
2,2',6,6'-TeCB	54	ND		20.0	3.75
2,2',4,6-TeCB	50	ND		20.0	3.75
2,2',5,6'-TeCB	53	ND		20.0	3.75
2,2',4,6'-TeCB	51	ND		20.0	3.75
2,2',3,6-TeCB	45	ND		20.0	3.75
2,2',3,6'-TeCB	46	ND		20.0	3.75
2,2',5,5'-/2,3',4,6-TeCB	52/69	ND		20.0	3.75
2,3',5',6-TeCB	73	ND		20.0	3.75
2,2',3-5-/2,2',4,5'-TeCB	43/49	ND		20.0	3.75
2,2',4,4'-TeCB	47	ND		20.0	3.75
2,2',4,5-/2,4,4',6-TeCB	48/75	ND		20.0	3.75
2,3,5,6-TeCB	65	ND		20.0	3.75
2,3,4,6-TeCB	62	ND		20.0	3.75

Sample ID: Method Blank

		Ceres ID:	0-3442-MB	**Date Received:**	NA
Project:	A5C0942	**QC Batch #:**	3442	**Date Extracted:**	14-Mar-25
Matrix:	Aqueous	**Sample Size:**	1.000 L	**Analyzed Date:**	15-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2,2',3,5'-TeCB	44	ND		20.0	3.75
2,2',3,4'-/2,3,3',6-TeCB	42/59	ND		20.0	3.75
2,2',3,4-/2,3,4',6-/2,3',4',6-/2,3',5,5'-TeCB	41/64/71/72	ND		20.0	3.75
2,3',4,5'-TeCB	68	ND		20.0	3.75
2,2',3,3'-TeCB	40	ND		20.0	3.75
2,3,3',5-TeCB	57	ND		20.0	3.75
2,3',4,5-TeCB	67	ND		20.0	3.75
2,3,3',5'-TeCB	58	ND		20.0	3.75
2,3,4',5-TeCB	63	ND		20.0	3.75
2,4,4',5-TeCB	74	ND		20.0	3.75
2,3,4,5-/2,3',4',5-TeCB	61/70	ND		20.0	3.75
2,3',4,4'-/2',3,4,5-TeCB	66/76	ND		20.0	3.75
3,3',5,5'-TeCB	80	ND		20.0	3.75
2,3,3',4-TeCB	55	ND		20.0	3.75
2,3,3',4'-/2,3,4,4'-TeCB	56/60	ND		20.0	3.59
3,3',4,5'-TeCB	79	ND		20.0	3.59
3,3',4,5-TeCB	78	ND		20.0	3.59
3,4,4',5-TeCB	81	ND		20.0	3.59
3,3',4,4'-TeCB	77	ND		20.0	5.22
2,2',4,6,6'-PeCB	104	ND		20.0	4.75
2,2',3,6,6'-PeCB	96	ND		20.0	4.75
2,2',4,5'6-PeCB	103	ND		20.0	4.75
2,2',4,4',6-PeCB	100	ND		20.0	4.75
2,2',3,5,6'-PeCB	94	ND		20.0	4.75
2,2',3,5,6-/2,2',3,5',6-/2,2',3',4,6-/2,2',4,5,6'-PeCB	93/95/98/102	ND		20.0	4.75
2,2',3,4,6-PeCB	88/91	ND		20.0	4.75
2,3',4,5',6-PeCB	121	ND		20.0	4.75
2,2',3,3',6-/2,2',3,5,5'-PeCB	84/92	ND		20.0	3.46
2,2',3,4,6'-PeCB	89	ND		20.0	3.46
2,2',3,4',5-/2,2',4,5,5'-PeCB	90/101	ND		20.0	3.46
2,3,3',5',6-PeCB	113	ND		20.0	3.46
2,2',4,4',5-PeCB	99	ND		20.0	3.46
2,2',3,3',5-PeCB	83	ND		20.0	3.46
2,3,3',5,6-/2,3',4,4',6-PeCB	112/119	ND		20.0	3.46
2,3,3',4,6-PeCB	109	ND		20.0	3.46
2,2',3',4,5-PeCB	97	ND		20.0	3.46
2,2',3,4,5-PeCB	86	ND		20.0	3.46
2,2',3,4,5'-/2,3,4',5,6-/2',3,4,5,6'-PeCB	87/117/125	ND		20.0	3.46
2,3,3',5,5'-/2,3,4,4',6-PeCB	111/115	ND		20.0	3.46
2,2',3,4,4'-/2,3,4,5,6-PeCB	85/116	ND		20.0	3.46
2,3',4,5,5'-PeCB	120	ND		20.0	3.46
2-3,3',4',6-PeCB	110	ND		20.0	3.46

Sample ID: Method Blank

		Ceres ID:	0-3442-MB		**Date Received:**	NA
Project:	A5C0942	**QC Batch #:**	3442		**Date Extracted:**	14-Mar-25
Matrix:	Aqueous	**Sample Size:**	1.000	L	**Analyzed Date:**	15-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2,2',3,3',4-PeCB	82	ND		20.0	3.46
2',3,4,5,5'-PeCB	124	ND		20.0	3.46
2,3,3',4',5-/2,3,3',4,5'-PeCB	107/108	ND		20.0	3.46
2,3',4,4',5'-PeCB	123	ND		20.0	3.46
2,3,3',4,5-/2,3',4,4',5-PeCB	106/118	ND		20.0	5.58
2,3,4,4',5-PeCB	114	ND		20.0	3.25
2',3,3',4,5-PeCB	122	ND		20.0	3.25
2,3,3',4,4'-PeCB	105	ND		20.0	4.87
3,3',4,5,5'-PeCB	127	ND		20.0	4.87
3,3',4,4',5-PeCB	126	ND		20.0	5.73
2,2',4,4',6,6'-HxCB	155	ND		20.0	4.86
2,2',3,4',6,6'-HxCB	150	ND		20.0	4.86
2,2',3,5,6,6'-HxCB	152	ND		20.0	4.86
2,2',3,4,6,6'-HxCB	145	ND		20.0	4.86
2,2',3,3',6,6'-HxCB	136	ND		20.0	4.86
2,2',3,4',5,6'-HxCB	148	ND		20.0	4.86
2,2',4,4',5',6-HxCB	154	ND		20.0	4.86
2,2',3,5,5',6-HxCB	151	ND		20.0	4.86
2,2',3,3',5,6'-HxCB	135	ND		20.0	4.86
2,2',3,4,5',6-HxCB	144	ND		20.0	4.86
2,2',3,4',5,6-HxCB	147	ND		20.0	4.86
2,2',3,4,4',6-/2,2',3,4',5',6-HxCB	139/149	ND		20.0	4.86
2,2',3,4,4',6'-HxCB	140	ND		20.0	4.86
2,2',3,3',5,6-/2,2',3,4,5,6'-HxCB	134/143	ND		20.0	5.19
2,2',3,3',4,6-/2,2',3,4,5,6-HxCB	131/142	ND		20.0	5.19
2,2',3,3',5,5'-HxCB	133	ND		20.0	5.19
2,2',3,3',4,6'-/2,2',3,4',5,5'-HxCB	132/146	ND		20.0	5.19
2,3,3',4,5',6-/2,3,3',5,5',6-HxCB	161/165	ND		20.0	5.19
2,2',4,4',5,5'-HxCB	153	ND		20.0	5.19
2,3',4,4',5',6-HxCB	168	ND		20.0	5.19
2,2',3,4,5,5'-HxCB	141	ND		20.0	5.19
2,2',3,4,4',5-HxCB	137	ND		20.0	5.19
2,2',3,3',4,5'-HxCB	130	ND		20.0	5.19
2,2',3,4,4',5-/2,3,3',4',5,6-/2,3,3',4',5',6-HxCB	138/163/164	ND		20.0	5.19
2,3,3',4,4',6-/2,3,3',4,5,6-HxCB	158/160	ND		20.0	5.19
2,2',3,3',4,5-HxCB	129	ND		20.0	5.19
2,3,4,4',5,6-HxCB	166	ND		20.0	5.19
2,3,3',4,5,5'-HxCB	159	ND		20.0	5.19
2,2',3,3',4,4'-/2,3,3',4',5,5'-HxCB	128/162	ND		20.0	5.19
2,3',4,4',5,5'-HxCB	167	ND		20.0	5.19
2,3,3',4,4',5-HxCB	156	ND		20.0	4.13
2,3,3',4,4',5'-HxCB	157	ND		20.0	6.07
3,3',4,4',5,5'-HxCB	169	ND		20.0	5.20

Sample ID: Method Blank

		Ceres ID:	0-3442-MB		**Date Received:**	NA
Project:	A5C0942	**QC Batch #:**	3442		**Date Extracted:**	14-Mar-25
Matrix:	Aqueous	**Sample Size:**	1.000	L	**Analyzed Date:**	15-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2,2',3,4',5,6,6'-HpCB	188	ND		20.0	5.69
2,2',3,4,4',6,6'-HpCB	184	ND		20.0	5.69
2,2',3,3',5,6,6'-HpCB	179	ND		20.0	5.69
2,2',3,3',4,6,6'-HpCB	176	ND		20.0	5.69
2,2',3,4,5,6,6'-HpCB	186	ND		20.0	5.69
2,2',3,3',5,5',6-HpCB	178	ND		20.0	5.69
2,2',3,3',4,5',6-HpCB	175	ND		20.0	5.69
2,2',3,4,4',5,6'-/2,2',3,4',5,5',6-HpCB	182/187	ND		20.0	5.69
2,2',3,4,4',5',6-HpCB	183	ND		20.0	5.69
2,2',3,4,5,5',6-HpCB	185	ND		20.0	3.69
2,2',3,3',4,5,6'-HpCB	174	ND		20.0	3.69
2,2',3,4,4',5,6-HpCB	181	ND		20.0	3.69
2,2',3,3',4',5,6-HpCB	177	ND		20.0	3.69
2,2',3,3',4,4',6-HpCB	171	ND		20.0	3.69
2,2',3,3',4,5,6-HpCB	173	ND		20.0	3.69
2,2',3,3',4,5,5'-HpCB	172	ND		20.0	3.69
2,3,3',4,5,5',6-HpCB	192	ND		20.0	3.69
2,2',3,4,4',5,5'-HpCB	180	ND		20.0	3.69
2,3,3',4',5,5',6-HpCB	193	ND		20.0	3.69
2,3,3',4,4',5',6-HpCB	191	ND		20.0	3.69
2,2',3,3',4,4',5-HpCB	170	ND		20.0	3.69
2,3,3',4,4',5,6-HpCB	190	ND		20.0	3.69
2,3,3',4,4',5,5'-HpCB	189	ND		20.0	3.69
2,2',3,3',5,5',6,6'-OcCB	202	ND		20.0	4.31
2,2',3,3',4,5',6,6'-OcCB	201	ND		20.0	4.31
2,2',3,4,4',5,6,6'-OcCB	204	ND		20.0	4.31
2,2',3,3',4,4',6,6'-OcCB	197	ND		20.0	4.31
2,2',3,3',4,5,6,6'-OcCB	200	ND		20.0	4.31
2,2',3,3',4,5,5',6-OcCB	198	ND		20.0	4.31
2,2',3,3',4,5,5',6'-OcCB	199	ND		20.0	4.31
2,2',3,3',4,4',5,6'-/2,2',3,4,4',5,5',6-OcCB	196/203	ND		20.0	4.31
2,2',3,3',4,4',5,6-OcCB	195	ND		20.0	7.16
2,2',3,3',4,4',5,5'-OcCB	194	ND		20.0	7.16
2,3,3',4,4',5,5',6-OcCB	205	ND		20.0	7.16
2,2',3,3',4,5,5',6,6'-NoCB	208	ND		20.0	3.75
2,2',3,3',4,4',5,6,6'-NoCB	207	ND		20.0	3.75
2,2',3,3',4,4',5,5',6-NoCB	206	ND		20.0	5.61
Decachlorobiphenyl	209	ND		20.0	4.14

Sample ID: Method Blank

		Ceres ID:	0-3442-MB	**Date Received:**	NA
Project:	A5C0942	**QC Batch #:**	3442	**Date Extracted:**	14-Mar-25
Matrix:	Aqueous	**Sample Size:**	1.000 L	**Analyzed Date:**	15-Mar-25

Totals	**Chlorination Level**	**Conc. (pg/L)**	**Qual.**	**RL**
Monochlorobiphenyl	MoCB	0		20.0
Dichlorobiphenyl	DiCB	0		20.0
Trichlorobiphenyl	TrCB	0		20.0
Tetrachlorobiphenyl	TeCB	0		20.0
Pentachlorobiphenyl	PeCB	0		20.0
Hexachlorobiphenyl	HxCB	0		20.0
Heptachlorobiphenyl	HpCB	0		20.0
Octachlorobiphenyl	OcCB	0		20.0
Nonachlorobiphenyl	NoCB	0		20.0
Decachlorobiphenyl	DeCB	ND		20.0

Labeled Standards	**Congener #**	**% Rec.**	**Limits**
$^{13}C_{12}$-2-MoCB	1	133	5-145
$^{13}C_{12}$-4-MoCB	3	117	5-145
$^{13}C_{12}$-2,2'-DiCB	4	107	5-145
$^{13}C_{12}$-4,4'-DiCB	15	87.1	5-145
$^{13}C_{12}$-2,2',6-TrCB	19	142	5-145
$^{13}C_{12}$-3,4,4'-TrCB	37	46.3	5-145
$^{13}C_{12}$-2,2',6,6'-TeCB	54	54.4	5-145
$^{13}C_{12}$-3,4,4',5-TeCB	81	99.2	10-145
$^{13}C_{12}$-3,3',4,4'-TeCB	77	96.4	10-145
$^{13}C_{12}$-2,2',4,6,6'-PeCB	104	93.8	10-145
$^{13}C_{12}$-2,3',4,4',5'-PeCB	123	101	10-145
$^{13}C_{12}$-2,3',4,4',5-PeCB	118	101	10-145
$^{13}C_{12}$-2,3,4,4',5-PeCB	114	62.1	10-145
$^{13}C_{12}$-2,3,3',4,4'-PeCB	105	63.8	10-145
$^{13}C_{12}$-3,3',4,4',5-PeCB	126	58.9	10-145
$^{13}C_{12}$-2,2',4,4',6,6'-HxCB	155	127	10-145
$^{13}C_{12}$-2,3',4,4',5,5'-HxCB	167	95.3	10-145
$^{13}C_{12}$-2,3,3',4,4',5-HxCB	156	95.5	10-145
$^{13}C_{12}$-2,3,3',4,4',5'-HxCB	157	92.1	10-145
$^{13}C_{12}$-3,3',4,4',5,5'-HxCB	169	93.0	10-145
$^{13}C_{12}$-2,2',3,4',5,6,6'-HpCB	188	113	10-145
$^{13}C_{12}$-2,3,3',4,4',5,5'-HpCB	189	122	10-145
$^{13}C_{12}$-2,2',3,3',5,5',6,6'-OcCB	202	135	10-145
$^{13}C_{12}$-2,3,3',4,4',5,5',6-OcCB	205	92.4	10-145
$^{13}C_{12}$-2,2',3,3',4,5,5',6,6'-NoCB	208	98.5	10-145
$^{13}C_{12}$-2,2',3,3',4,4',5,5',6-NoCB	206	128	10-145
$^{13}C_{12}$-Decachlorobiphenyl	209	134	10-145
Cleanup Standards			
$^{13}C_{12}$-2,4,4'-TrCB	28	49.6	5-145
$^{13}C_{12}$-2,3,3',5,5'-PeCB	111	107	10-145
$^{13}C_{12}$-2,2',3,3',5,5',6-HpCB	178	117	10-145

Sample ID: **Ongoing Precision and Recovery (OPR)**

		Ceres ID:	0-3442-OPR	**Date Received:**	NA
Project:	A5C0942	**QC Batch #:**	3442	**Date Extracted:**	14-Mar-25
Matrix:	Aqueous	**Sample Size:**	1.000 L	**Analyzed Date:**	15-Mar-25

Analyte	**Congener #**	**Units**	**Conc. Found**	**Limits**
2-MoCB	1	ng/mL	32.6	30-67.5
4-MoCB	3	ng/mL	32.3	30-67.5
2,2'-/2,6-DiCB	4/10	ng/mL	77.5	60-135
4,4'-DiCB	15	ng/mL	37.8	30-67.5
2,2',6-TrCB	19	ng/mL	38.8	30-67.5
3,4,4'-TrCB	37	ng/mL	37.1	30-67.5
2,2',6,6'-TeCB	54	ng/mL	55.6	30-67.5
3,4,4',5-TeCB	81	ng/mL	39.0	30-67.5
3,3',4,4'-TeCB	77	ng/mL	43.7	30-67.5
2,2',4,6,6'-PeCB	104	ng/mL	39.6	30-67.5
2,3',4,4',5'-PeCB	123	ng/mL	39.4	30-67.5
2,3,3',4,5-/2,3',4,4',5-PeCB	106/118	ng/mL	80.4	60-135
2,3,4,4',5-PeCB	114	ng/mL	42.1	30-67.5
2,3,3',4,4'-PeCB	105	ng/mL	43.0	30-67.5
3,3',4,4',5-PeCB	126	ng/mL	42.4	30-67.5
2,2',4,4',6,6'-HxCB	155	ng/mL	42.2	30-67.5
2,3',4,4',5,5'-HxCB	167	ng/mL	38.1	30-67.5
2,3,3',4,4',5-HxCB	156	ng/mL	37.5	30-67.5
2,3,3',4,4',5'-HxCB	157	ng/mL	39.0	30-67.5
3,3',4,4',5,5'-HxCB	169	ng/mL	370	30-67.5
2,2',3,4',5,6,6'-HpCB	188	ng/mL	38.5	30-67.5
2,3,3',4,4',5,5'-HpCB	189	ng/mL	37.1	30-67.5
2,2',3,3',5,5',6,6'-OcCB	202	ng/mL	41.7	30-67.5
2,3,3',4,4',5,5',6-OcCB	205	ng/mL	45.8	30-67.5
2,2',3,3',4,5,5',6,6'-NoCB	208	ng/mL	43.9	30-67.5
2,2',3,3',4,4',5,5',6-NoCB	206	ng/mL	41.6	30-67.5
Decachlorobiphenyl	209	ng/mL	44.4	30-67.5

Sample ID: **Ongoing Precision and Recovery (OPR)**

		Ceres ID:	0-3442-OPR	**Date Received:**	NA
Project:	A5C0942	**QC Batch #:**	3442	**Date Extracted:**	14-Mar-25
Matrix:	Aqueous	**Sample Size:**	1.000 L	**Analyzed Date:**	15-Mar-25

Labeled Standards	**Congener #**	**Units**		**Limits**
$^{13}C_{12}$-2-MoCB	1	%	97.8	15-145
$^{13}C_{12}$-4-MoCB	3	%	86.6	15-145
$^{13}C_{12}$-2,2'-DiCB	4	%	108	15-145
$^{13}C_{12}$-4,4'-DiCB	15	%	84.2	15-145
$^{13}C_{12}$-2,2',6-TrCB	19	%	141	15-145
$^{13}C_{12}$-3,4,4'-TrCB	37	%	47.9	15-145
$^{13}C_{12}$-2,2',6,6'-TeCB	54	%	60.7	15-145
$^{13}C_{12}$-3,4,4',5-TeCB	81	%	95.8	40-145
$^{13}C_{12}$-3,3',4,4'-TeCB	77	%	96.7	40-145
$^{13}C_{12}$-2,2',4,6,6'-PeCB	104	%	99.1	40-145
$^{13}C_{12}$-2,3',4,4',5'-PeCB	123	%	104	40-145
$^{13}C_{12}$-2,3',4,4',5-PeCB	118	%	105	40-145
$^{13}C_{12}$-2,3,4,4',5-PeCB	114	%	60.3	40-145
$^{13}C_{12}$-2,3,3',4,4'-PeCB	105	%	60.7	40-145
$^{13}C_{12}$-3,3',4,4',5-PeCB	126	%	59.4	40-145
$^{13}C_{12}$-2,2',4,4',6,6'-HxCB	155	%	133	40-145
$^{13}C_{12}$-2,3',4,4',5,5'-HxCB	167	%	90.8	40-145
$^{13}C_{12}$-2,3,3',4,4',5-HxCB	156	%	92.3	40-145
$^{13}C_{12}$-2,3,3',4,4',5'-HxCB	157	%	93.4	40-145
$^{13}C_{12}$-3,3',4,4',5,5'-HxCB	169	%	99.2	40-145
$^{13}C_{12}$-2,2',3,4',5,6,6'-HpCB	188	%	118	40-145
$^{13}C_{12}$-2,3,3',4,4',5,5'-HpCB	189	%	128	40-145
$^{13}C_{12}$-2,2',3,3',5,5',6,6'-OcCB	202	%	144	40-145
$^{13}C_{12}$-2,3,3',4,4',5,5',6-OcCB	205	%	96.5	40-145
$^{13}C_{12}$-2,2',3,3',4,5,5',6,6'-NoCB	208	%	112	40-145
$^{13}C_{12}$-2,2',3,3',4,4',5,5',6-NoCB	206	%	138	40-145
$^{13}C_{12}$-Decachlorobiphenyl	209	%	140	40-145
Cleanup Standards				
$^{13}C_{12}$-2,4,4'-TrCB	28	%	50.3	15-145
$^{13}C_{12}$-2,3,3',5,5'-PeCB	111	%	114	40-145
$^{13}C_{12}$-2,2',3,3',5,5',6-HpCB	178	%	114	40-145

Sample ID: T3-GW-70

Project ID:	A5C0942	**Ceres ID:**	19231-001	**Date Received:**	3/5/2025
Matrix:	Aqueous	**QC Batch #:**	3442	**Date Extracted:**	3/14/2025
Date & Time Sampled:	3/3/2025 12:11	**Sample Size:**	1.040 L	**Analyzed Date:**	3/15/2025

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2-MoCB	1	23.4		19.2	2.08
3-MoCB	2	7.49	J	19.2	3.49
4-MoCB	3	12.9	J	19.2	3.49
2,2'-/2,6-DiCB	4/10	38.1		19.2	8.07
2,4-/2,5-DiCB	7/9	19.6		19.2	8.07
2,3'-DiCB	6	22.9		19.2	8.07
2,3-/2,4'-DiCB	5/8	262		19.2	8.07
3,5-DiCB	14	ND		19.2	8.31
3,3'-DiCB	11	1670		19.2	8.31
3,4-/3,4'-DiCB	12/13	ND		19.2	8.31
4,4'-DiCB	15	302		19.2	8.31
2,2',6-TrCB	19	73.0		19.2	4.97
2,4,6-TrCB	30	ND		19.2	4.97
2,2',5-TrCB	18	1250		19.2	4.97
2,2',4-TrCB	17	561		19.2	4.97
2,3,6-/2,3',6-TrCB	24/27	124		19.2	4.97
2,2',3-/2,4',6-TrCB	16/32	1090		19.2	4.97
2',3,5-TrCB	34	10.2	J	19.2	5.86
2,3,5-TrCB	23	ND		19.2	5.86
2,4,5-TrCB	29	17.4	J	19.2	5.86
2,3',5-TrCB	26	417		19.2	5.86
2,3',4-TrCB	25	225		19.2	5.86
2,4',5-TrCB	31	2480		19.2	5.86
2,4,4'-TrCB	28	3090		19.2	5.86
2,3,3'-/2,3,4-/2',3,4-TrCB	20/21/33	2380		19.2	5.86
2,3,4'-TrCB	22	1200		19.2	5.86
3,3',5-TrCB	36	ND		19.2	5.86
3,4',5-TrCB	39	ND		19.2	5.86
3,4,5-TrCB	38	24.2		19.2	5.86
3,3',4-TrCB	35	29.0		19.2	5.86
3,4,4'-TrCB	37	650		19.2	5.86
2,2',6,6'-TeCB	54	ND		19.2	3.75
2,2',4,6-TeCB	50	ND		19.2	3.75
2,2',5,6'-TeCB	53	298		19.2	3.75
2,2',4,6'-TeCB	51	122		19.2	3.75
2,2',3,6-TeCB	45	351		19.2	3.75
2,2',3,6'-TeCB	46	148		19.2	3.75
2,2',5,5'-/2,3',4,6-TeCB	52/69	1870		19.2	3.75
2,3',5',6-TeCB	73	ND		19.2	3.75
2,2',3-5-/2,2',4,5'-TeCB	43/49	1450		19.2	3.75
2,2',4,4'-TeCB	47	520		19.2	3.75
2,2',4,5-/2,4,4',6-TeCB	48/75	484		19.2	3.75
2,3,5,6-TeCB	65	ND		19.2	3.75
2,3,4,6-TeCB	62	ND		19.2	3.75

Sample ID: T3-GW-70

Project:	A5C0942	**Ceres ID:**	19231-001	**Date Received:**	5-Mar-25
Matrix:	Aqueous	**QC Batch #:**	3442	**Date Extracted:**	14-Mar-25
Date & Time Sampled:	3/3/2025 12:11	**Sample Size:**	1.040 L	**Analyzed Date:**	15-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2,2',3,5'-TeCB	44	1980		19.2	3.75
2,2',3,4'-/2,3,3',6-TeCB	42/59	780		19.2	3.75
2,2',3,4-/2,3,4',6-/2,3',4',6-/2,3',5,5'-TeCB	41/64/71/72	2050		19.2	3.75
2,3',4,5'-TeCB	68	ND		19.2	3.75
2,2',3,3'-TeCB	40	203		19.2	3.75
2,3,3',5-TeCB	57	ND		19.2	3.75
2,3',4,5-TeCB	67	110		19.2	3.75
2,3,3',5'-TeCB	58	ND		19.2	3.75
2,3,4',5-TeCB	63	93.3		19.2	3.75
2,4,4',5-TeCB	74	1100		19.2	3.75
2,3,4,5-/2,3',4',5-TeCB	61/70	2450		19.2	3.75
2,3',4,4'-/2',3,4,5-TeCB	66/76	2020		19.2	3.75
3,3',5,5'-TeCB	80	ND		19.2	3.75
2,3,3',4-TeCB	55	71.7		19.2	3.75
2,3,3',4'-/2,3,4,4'-TeCB	56/60	1460		19.2	3.59
3,3',4,5'-TeCB	79	20.4		19.2	3.59
3,3',4,5-TeCB	78	ND		19.2	3.59
3,4,4',5-TeCB	81	40.3		19.2	3.59
3,3',4,4'-TeCB	77	122		19.2	5.22
2,2',4,6,6'-PeCB	104	ND		19.2	4.75
2,2',3,6,6'-PeCB	96	ND		19.2	4.75
2,2',4,5'6-PeCB	103	ND		19.2	4.75
2,2',4,4',6-PeCB	100	ND		19.2	4.75
2,2',3,5,6'-PeCB	94	ND		19.2	4.75
2,2',3,5,6-/2,2',3,5',6-/2,2',3',4,6-/2,2',4,5,6'-PeCB	93/95/98/102	1300		19.2	4.75
2,2',3,4,6-PeCB	88/91	245		19.2	4.75
2,3',4,5',6-PeCB	121	ND		19.2	4.75
2,2',3,3',6-/2,2',3,5,5'-PeCB	84/92	515		19.2	3.46
2,2',3,4,6'-PeCB	89	23.5		19.2	3.46
2,2',3,4',5-/2,2',4,5,5'-PeCB	90/101	1220		19.2	3.46
2,3,3',5',6-PeCB	113	ND		19.2	3.46
2,2',4,4',5-PeCB	99	466		19.2	3.46
2,2',3,3',5-PeCB	83	ND		19.2	3.46
2,3,3',5,6-/2,3',4,4',6-PeCB	112/119	30.5		19.2	3.46
2,3,3',4,6-PeCB	109	50.4		19.2	3.46
2,2',3',4,5-PeCB	97	ND		19.2	3.46
2,2',3,4,5-PeCB	86	445		19.2	3.46
2,2',3,4,5'-/2,3,4',5,6-/2',3,4,5,6'-PeCB	87/117/125	ND		19.2	3.46
2,3,3',5,5'-/2,3,4,4',6-PeCB	111/115	354		19.2	3.46
2,2',3,4,4'-/2,3,4,5,6-PeCB	85/116	33.1		19.2	3.46
2,3',4,5,5'-PeCB	120	157		19.2	3.46
2-3,3',4',6-PeCB	110	1260		19.2	3.46

Sample ID: T3-GW-70

Project:	A5C0942	**Ceres ID:**	19231-001	**Date Received:**	5-Mar-25
Matrix:	Aqueous	**QC Batch #:**	3442	**Date Extracted:**	14-Mar-25
Date & Time Sampled:	3/3/2025 12:11	**Sample Size:**	1.040 L	**Analyzed Date:**	15-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2,2',3,3',4-PeCB	82	194		19.2	3.46
2',3,4,5,5'-PeCB	124	41.7		19.2	3.46
2,3,3',4',5-/2,3,3',4,5'-PeCB	107/108	58.5		19.2	3.46
2,3',4,4',5'-PeCB	123	18.2	J	19.2	3.46
2,3,3',4,5-/2,3',4,4',5-PeCB	106/118	829		19.2	5.58
2,3,4,4',5-PeCB	114	21.8		19.2	3.25
2',3,3',4,5-PeCB	122	19.2		19.2	3.25
2,3,3',4,4'-PeCB	105	384		19.2	4.87
3,3',4,5,5'-PeCB	127	ND		19.2	4.87
3,3',4,4',5-PeCB	126	ND		19.2	5.73
2,2',4,4',6,6'-HxCB	155	ND		19.2	4.86
2,2',3,4',6,6'-HxCB	150	ND		19.2	4.86
2,2',3,5,6,6'-HxCB	152	ND		19.2	4.86
2,2',3,4,6,6'-HxCB	145	ND		19.2	4.86
2,2',3,3',6,6'-HxCB	136	170		19.2	4.86
2,2',3,4',5,6'-HxCB	148	ND		19.2	4.86
2,2',4,4',5',6-HxCB	154	24.6		19.2	4.86
2,2',3,5,5',6-HxCB	151	307		19.2	4.86
2,2',3,3',5,6'-HxCB	135	177		19.2	4.86
2,2',3,4,5',6-HxCB	144	59.8		19.2	4.86
2,2',3,4',5,6-HxCB	147	ND		19.2	4.86
2,2',3,4,4',6-/2,2',3,4',5',6-HxCB	139/149	1010		19.2	4.86
2,2',3,4,4',6'-HxCB	140	ND		19.2	4.86
2,2',3,3',5,6-/2,2',3,4,5,6'-HxCB	134/143	61.0		19.2	5.19
2,2',3,3',4,6-/2,2',3,4,5,6-HxCB	131/142	38.3		19.2	5.19
2,2',3,3',5,5'-HxCB	133	ND		19.2	5.19
2,2',3,3',4,6'-/2,2',3,4',5,5'-HxCB	132/146	155		19.2	5.19
2,3,3',4,5',6-/2,3,3',5,5',6-HxCB	161/165	334		19.2	5.19
2,2',4,4',5,5'-HxCB	153	1080		19.2	5.19
2,3',4,4',5',6-HxCB	168	ND		19.2	5.19
2,2',3,4,5,5'-HxCB	141	246		19.2	5.19
2,2',3,4,4',5-HxCB	137	52.5		19.2	5.19
2,2',3,3',4,5'-HxCB	130	58.2		19.2	5.19
2,2',3,4,4',5-/2,3,3',4',5,6-/2,3,3',4',5',6-HxCB	138/163/164	1160		19.2	5.19
2,3,3',4,4',6-/2,3,3',4,5,6-HxCB	158/160	128		19.2	5.19
2,2',3,3',4,5-HxCB	129	60.0		19.2	5.19
2,3,4,4',5,6-HxCB	166	ND		19.2	5.19
2,3,3',4,5,5'-HxCB	159	13.1	J	19.2	5.19
2,2',3,3',4,4'-/2,3,3',4',5,5'-HxCB	128/162	146		19.2	5.19
2,3',4,4',5,5'-HxCB	167	46.5		19.2	5.19
2,3,3',4,4',5-HxCB	156	90.1		19.2	4.13
2,3,3',4,4',5'-HxCB	157	24.9		19.2	6.07
3,3',4,4',5,5'-HxCB	169	ND		19.2	5.20

Sample ID: T3-GW-70

Project:	A5C0942	**Ceres ID:**	19231-001	**Date Received:**	5-Mar-25
Matrix:	Aqueous	**QC Batch #:**	3442	**Date Extracted:**	14-Mar-25
Date & Time Sampled:	3/3/2025 12:11	**Sample Size:**	1.040 L	**Analyzed Date:**	15-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2,2',3,4',5,6,6'-HpCB	188	ND		19.2	5.69
2,2',3,4,4',6,6'-HpCB	184	ND		19.2	5.69
2,2',3,3',5,6,6'-HpCB	179	172		19.2	5.69
2,2',3,3',4,6,6'-HpCB	176	52.4		19.2	5.69
2,2',3,4,5,6,6'-HpCB	186	ND		19.2	5.69
2,2',3,3',5,5',6-HpCB	178	66.7		19.2	5.69
2,2',3,3',4,5',6-HpCB	175	12.6	J	19.2	5.69
2,2',3,4,4',5,6'-/2,2',3,4',5,5',6-HpCB	182/187	413		19.2	5.69
2,2',3,4,4',5',6-HpCB	183	185		19.2	5.69
2,2',3,4,5,5',6-HpCB	185	97.3	*	19.2	3.69
2,2',3,3',4,5,6'-HpCB	174	527	*	19.2	3.69
2,2',3,4,4',5,6-HpCB	181	ND	*	19.2	3.69
2,2',3,3',4',5,6-HpCB	177	375	*	19.2	3.69
2,2',3,3',4,4',6-HpCB	171	133	*	19.2	3.69
2,2',3,3',4,5,6-HpCB	173	ND	*	19.2	3.69
2,2',3,3',4,5,5'-HpCB	172	84.3	*	19.2	3.69
2,3,3',4,5,5',6-HpCB	192	ND	*	19.2	3.69
2,2',3,4,4',5,5'-HpCB	180	1090	*	19.2	3.69
2,3,3',4',5,5',6-HpCB	193	58.7	*	19.2	3.69
2,3,3',4,4',5',6-HpCB	191	18.8	*,J	19.2	3.69
2,2',3,3',4,4',5-HpCB	170	335	*	19.2	3.69
2,3,3',4,4',5,6-HpCB	190	69.6	*	19.2	3.69
2,3,3',4,4',5,5'-HpCB	189	16.9	*,J	19.2	3.69
2,2',3,3',5,5',6,6'-OcCB	202	63.7		19.2	4.31
2,2',3,3',4,5',6,6'-OcCB	201	44.1		19.2	4.31
2,2',3,4,4',5,6,6'-OcCB	204	ND		19.2	4.31
2,2',3,3',4,4',6,6'-OcCB	197	ND		19.2	4.31
2,2',3,3',4,5,6,6'-OcCB	200	22.8		19.2	4.31
2,2',3,3',4,5,5',6-OcCB	198	ND		19.2	4.31
2,2',3,3',4,5,5',6'-OcCB	199	183		19.2	4.31
2,2',3,3',4,4',5,6'-/2,2',3,4,4',5,5',6-OcCB	196/203	174		19.2	4.31
2,2',3,3',4,4',5,6-OcCB	195	126		19.2	7.16
2,2',3,3',4,4',5,5'-OcCB	194	202		19.2	7.16
2,3,3',4,4',5,5',6-OcCB	205	151		19.2	7.16
2,2',3,3',4,5,5',6,6'-NoCB	208	71.5		19.2	3.75
2,2',3,3',4,4',5,6,6'-NoCB	207	23.7		19.2	3.75
2,2',3,3',4,4',5,5',6-NoCB	206	188		19.2	5.61
Decachlorobiphenyl	209	208		19.2	4.14

Sample ID: T3-GW-70

Project:	A5C0942	**Ceres ID:**	19231-001	**Date Received:**	5-Mar-25
Matrix:	Aqueous	**QC Batch #:**	3442	**Date Extracted:**	14-Mar-25
Date & Time Sampled:	3/3/2025 12:11	**Sample Size:**	1.040 L	**Analyzed Date:**	15-Mar-25

Totals	**Chlorination Level**	**Conc. (pg/L)**	**Qual.**	**RL**
Monochlorobiphenyl	MoCB	44		19.2
Dichlorobiphenyl	DiCB	2315		19.2
Trichlorobiphenyl	TrCB	13621		19.2
Tetrachlorobiphenyl	TeCB	17744		19.2
Pentachlorobiphenyl	PeCB	7666		19.2
Hexachlorobiphenyl	HxCB	5442		19.2
Heptachlorobiphenyl	HpCB	3707.3		19.2
Octachlorobiphenyl	OcCB	966.6		19.2
Nonachlorobiphenyl	NoCB	283.2		19.2
Decachlorobiphenyl	DeCB	208		19.2

Labeled Standards	**Congener #**	**% Rec.**		**Limits**
$^{13}C_{12}$-2-MoCB	1	62.1		5-145
$^{13}C_{12}$-4-MoCB	3	50.8		5-145
$^{13}C_{12}$-2,2'-DiCB	4	53.3		5-145
$^{13}C_{12}$-4,4'-DiCB	15	46.0		5-145
$^{13}C_{12}$-2,2',6-TrCB	19	67.1		5-145
$^{13}C_{12}$-3,4,4'-TrCB	37	28.8		5-145
$^{13}C_{12}$-2,2',6,6'-TeCB	54	54.4		5-145
$^{13}C_{12}$-3,4,4',5-TeCB	81	60.2		10-145
$^{13}C_{12}$-3,3',4,4'-TeCB	77	60.3		10-145
$^{13}C_{12}$-2,2',4,6,6'-PeCB	104	46.9		10-145
$^{13}C_{12}$-2,3',4,4',5'-PeCB	123	61.3		10-145
$^{13}C_{12}$-2,3',4,4',5-PeCB	118	60.8		10-145
$^{13}C_{12}$-2,3,4,4',5-PeCB	114	41.7		10-145
$^{13}C_{12}$-2,3,3',4,4'-PeCB	105	41.9		10-145
$^{13}C_{12}$-3,3',4,4',5-PeCB	126	42.5		10-145
$^{13}C_{12}$-2,2',4,4',6,6'-HxCB	155	70.9		10-145
$^{13}C_{12}$-2,3',4,4',5,5'-HxCB	167	48.2		10-145
$^{13}C_{12}$-2,3,3',4,4',5-HxCB	156	44.2		10-145
$^{13}C_{12}$-2,3,3',4,4',5'-HxCB	157	41.6		10-145
$^{13}C_{12}$-3,3',4,4',5,5'-HxCB	169	33.5		10-145
$^{13}C_{12}$-2,2',3,4',5,6,6'-HpCB	188	55.3		10-145
$^{13}C_{12}$-2,3,3',4,4',5,5'-HpCB	189	37.5	*	10-145
$^{13}C_{12}$-2,2',3,3',5,5',6,6'-OcCB	202	49.0		10-145
$^{13}C_{12}$-2,3,3',4,4',5,5',6-OcCB	205	48.7		10-145
$^{13}C_{12}$-2,2',3,3',4,5,5',6,6'-NoCB	208	50.9		10-145
$^{13}C_{12}$-2,2',3,3',4,4',5,5',6-NoCB	206	53.7		10-145
$^{13}C_{12}$-Decachlorobiphenyl	209	49.3		10-145
Cleanup Standards				
$^{13}C_{12}$-2,4,4'-TrCB	28	53.1		5-145
$^{13}C_{12}$-2,3,3',5,5'-PeCB	111	104		10-145
$^{13}C_{12}$-2,2',3,3',5,5',6-HpCB	178	90.7		10-145

Section VI: Sample Tracking

SUBCONTRACT ORDER

Apex Laboratories

A5C0942

AUC 3/3/25

SENDING LABORATORY:

Apex Laboratories
6700 S.W. Sandburg Street
Tigard, OR 97223
Phone: (503) 718-2323
Fax: (503) 336-0745
Project Manager: Darrell Auvil

RECEIVING LABORATORY:

Ceres Analytical Laboratory, Inc
4919 Windplay Drive, Suite 1
El Dorado Hills, CA 95762
Phone :(916) 932-5011
Fax: -9

Sample Name: T3-GW-70 **Water** **Sampled: 03/03/25 12:11** (A5C0942-01)

Analysis	Due	Expires	Comments
1668C PCB Congeners (SUB)	03/14/25 17:00	03/03/26 12:11	
Containers Supplied:			
(I)1 L Amber Glass - Non Preserved			
(J)1 L Amber Glass - Non Preserved			

Standard TAT

Released By: JA	Date: 1430 3/4/25	Received By: UPS (Shipper)	Date:
Released By: UPS (Shipper)	Date:	Received By:	Date: 3/5/25 0945

Sample Receipt Check List Logged by: _____ (initials)

Ceres ID: 19231	Date/Time: 3/5/25 0901
Client Project ID: A5C0942	Received Temp: 22 °C Acceptable: Y / N
Chain of Custody Relinquished by signed?	Y / N
Chain of Custody Received by signed?	Y / N
Custody Seals? Present?	Y / N
Intact?	Y / N
NA:	NA
Unlabeled / Illegible Samples	Y / N
Proper Containers:	Y / N
Preservation Acceptable (Chemical or Temperature)?	Y / N
Drinking Water, Sodium Thiosulfate present? Residual Cl?	Y / N / NA Y / N / NA
Aqueous sample pH: 6	NA
List COC discrepancies: 3/5/25	
List Damaged Samples: 3/5/25	

Section VII: Qualifiers/Abbreviations

J	Concentration found below the lower quantitation limit but greater than zero.
B	Analyte present in the associated Method Blank.
E	Concentration found exceeds the Calibration range of the HRGC/HRMS.
D	This analyte concentration was calculated from a dilution.
X	The concentration found is the estimated maximum possible concentration due to chlorinated diphenyl ethers present in the sample.
H	Recovery limits exceeded. See cover letter.
*****	Results taken from dilution.
I	Interference. See cover letter.
Conc.	Concentration Found
DL	Calculated Detection Limit
ND	Non-Detect
% Rec.	Percent Recovery

March 14, 2025 Service Request No:K2502365

Darrell Auvil
Apex Laboratories
6700 SW Sandburg St.
Tigard, OR 97223

Laboratory Results for: A5C0942

Dear Darrell,

Enclosed are the results of the sample(s) submitted to our laboratory March 06, 2025
For your reference, these analyses have been assigned our service request number **K2502365.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3260. You may also contact me via email at Luke.Rahn@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Luke Rahn
Project Manager

ADDRESS 1317 S. 13th Avenue, Kelso, WA 98626
PHONE +1 360 577 7222 | FAX +1 360 636 1068
ALS Group USA, Corp.
dba ALS Environmental

Narrative Documents

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

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Client: Apex Laboratories
Project: A5C0942
Sample Matrix: Water

Service Request: K2502365
Date Received: 03/06/2025

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

One water sample was received for analysis at ALS Environmental on 03/06/2025. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The sample was stored at minimum in accordance with the analytical method requirements.

General Chemistry:

No significant anomalies were noted with this analysis.

Approved by Date 03/14/2025

SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: T3-GW-70			Lab ID: K2502365-001			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Carbon, Total Organic	1.40		0.08	0.50	mg/L	SM 5310 C

Sample Receipt Information

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

Client: Apex Laboratories **Service Request:**K2502365
Project: A5C0942

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
K2502365-001	T3-GW-70	3/3/2025	1211

K2502365

SUBCONTRACT ORDER

Apex Laboratories

AHC 3/7/25

A5C0942

SENDING LABORATORY:	RECEIVING LABORATORY:
Apex Laboratories	ALS Group USA - Kelso
6700 S.W. Sandburg Street	1317 S 13th Avenue
Tigard, OR 97223	Kelso, WA 98626
Phone: (503) 718-2323	Phone :(360) 577-7222
Fax: (503) 336-0745	Fax: (360) 636-1068
Project Manager: Darrell Auvil	

Sample Name: T3-GW-70 **Sampled: 03/03/25 12:11** (A5C0942-01)

Analysis	Due	Expires	Comments
Total Organic Carbon - H2O (5310C)	03/14/25 17:00	03/31/25 12:11	
Containers Supplied:			
(E)250 mL Poly - Sulfuric (H2SO4)			

Standard TAT

Released By	Date	Received By	Date
[signature]	3/4/25 829	Diane Price	3/10/25 829
Diane Price	3/10/25 1225	[signature]	03/06/25 1225

Cooler Receipt and Preservation Form

PM LR

Client Apex Service Request K25 02365

Received: 03 06 2025 Opened: 03 06 2025 By: AO Unloaded: 03 06 2025 By: AO

1. Samples were received via? *USPS* *Fed Ex* *UPS* *DHL* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) *Cooler* *Box* *Envelope* *Other* _____ *NA*
3. Were custody seals on coolers? NA Y N If yes, how many and where? _____

If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Temp Blank	Sample Temp	IR Gun	Cooler #/COC ID /NA	Out of temp Indicate with "X"	PM Notified If out of temp	Tracking Number NA	Filed
—	3.1	IR06					

4. Was a Temperature Blank present in cooler? NA Y N If yes, notate the temperature in the appropriate column below:

If no, take the temperature of a representative sample bottle contained within the cooler; notate in the column "Sample Temp":

5. Were samples received within the method specified temperature ranges? NA Y N

If no, were they received on ice and same day as collected? If not, notate the cooler # below and notify the PM. NA Y N

If applicable, tissue samples were received: *Frozen* *Partially Thawed* *Thawed*

6. Packing material: *Inserts* *Baggies* *Bubble Wrap* *Gel Packs* *Wet Ice* *Dry Ice* *Sleeves* _____
7. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
8. Were samples received in good condition (unbroken) NA Y N
9. Were all sample labels complete (ie, analysis, preservation, etc.)? NA Y N
10. Did all sample labels and tags agree with custody papers? NA Y N
11. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
12. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* NA Y N
13. Were VOA vials received without headspace? *Indicate in the table below.* NA Y N
14. Was C12/Res negative? NA Y N
15. Were samples received within method specified time limit? If not, notate the error below and notify the PM. NA Y N
16. Were 100mL sterile microbiology bottles filled exactly to the 100mL mark? NA Y N Underfilled Overfilled

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count Bottle Type	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, Resolutions: _____

Q:\ENVIRONMENTAL\1 SOP & Policy Statements\SMO\CRF Update 2025-02-28.docx Updated: BJD 2/28/25

Miscellaneous Forms

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

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Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated value.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.
H	The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

#	The control limit criteria is not applicable.
J	The result is an estimated value.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.
Q	See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimated value over the calibration range.
J	The result is an estimated value between the MDL and the MRL.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses

Agency	Web Site	Number
Alaska DEH	http://dec.alaska.gov/eh/lab/cs/csapproval.htm	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L16-58-R4
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	http://health.hawaii.gov/	-
ISO 17025	http://www.pjlabs.com/	L16-57
Louisiana DEQ	http://www.deq.louisiana.gov/page/la-lab-accreditation	03016
Maine DHS	http://www.maine.gov/dhhs/	WA01276
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/enforcement/oqa.html	WA005
New York - DOH	https://www.wadsworth.org/regulatory/elap	12060
North Carolina DEQ	https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/EnvironmentalLabCertification/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wyoming (EPA Region 8)	https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water-	-
Kelso Laboratory Website	[illegible]	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.
Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/anlayte is offered by that state.

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Analyst Summary report

Client:	Apex Laboratories	**Service Request:**	K2502365
Project:	A5C0942/		

Sample Name:	T3-GW-70	**Date Collected:**	03/3/25
Lab Code:	K2502365-001	**Date Received:**	03/6/25
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
SM 5310 C		MSPECHT

Sample Results

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

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General Chemistry

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
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Client:	Apex Laboratories	**Service Request:**	K2502365
Project:	A5C0942	**Date Collected:**	03/03/25 12:11
Sample Matrix:	Water	**Date Received:**	03/06/25 12:25
Sample Name:	T3-GW-70	**Basis:**	NA
Lab Code:	K2502365-001		

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Carbon, Total Organic	SM 5310 C	**1.40**	mg/L	0.50	0.08	1	03/12/25 14:33	

QC Summary Forms

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General Chemistry

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Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

RIGHT SOLUTIONS | RIGHT PARTNER

Client:	Apex Laboratories	**Service Request:**	K2502365
Project:	A5C0942	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	K2502365-MB		

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Carbon, Total Organic	SM 5310 C	ND U	mg/L	0.50	0.08	1	03/12/25 14:33	

Client:	Apex Laboratories	**Service Request:**	K2502365
Project:	A5C0942	**Date Analyzed:**	03/12/25
Sample Matrix:	Water	**Date Extracted:**	NA

Lab Control Sample Summary
Carbon, Total Organic

Analysis Method:	SM 5310 C	**Units:**	mg/L
Prep Method:	None	**Basis:**	NA
		Analysis Lot:	872500

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K2502365-LCS	24.1	25.0	96	83-117

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

ANALYTICAL REPORT

AMENDED REPORT

Thursday, May 29, 2025

Steve Misner
Apex Companies, LLC
15618 SW 72nd Ave
Tigard, OR 97224

RE: A5C0993 - Willamette Cove GW SCE - 1056-17

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 A5C0993, which was received by the laboratory on 3/4/2025 at 5:08:00PM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: DAuvil@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 1.1 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

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Darrell Auvil, Client Services Manager

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

ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C0993 - 05 29 25 1542**

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
T5-GW-35	**A5C0993-01**	**Water**	**03/04/25 12:44**	**03/04/25 17:08**
T5-GW-46	**A5C0993-02**	**Water**	**03/04/25 15:44**	**03/04/25 17:08**

Apex Laboratories

Darrell Auvil, Client Services Manager

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ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C0993 - 05 29 25 1542**

ANALYTICAL CASE NARRATIVE

A5C0993 **Apex Laboratories**

Amended Report Revision 2: This report supersedes all previous reports.

Reporting the Detection Limits (DL)-

The final report has been amended to report PAH data by EPA 8270E, to the detection limits (DL).

Darrell Auvil
Client Services Manager
5/29/2025

Amended Report Revision 1:

Reporting the Detection Limits (DL)-

This report supersedes all previous reports.

The final report has been amended to report Chlorinated Pesticides data by EPA 8081B, to the detection limits (DL).

Darrell Auvil
Client Services Manager
5/9/2025

Apex Laboratories

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Darrell Auvil, Client Services Manager

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ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C0993 - 05 29 25 1542**

ANALYTICAL SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
T5-GW-35 (A5C0993-01RE1)				**Matrix: Water**		**Batch: 25C0330**		**C-05, DCNT**
2,4'-DDD	ND	0.238	0.238	ug/L	1	03/11/25 16:31	EPA 8081B	R-02
2,4'-DDE	ND	0.0194	0.0194	ug/L	1	03/11/25 16:31	EPA 8081B	
2,4'-DDT	ND	0.0194	0.0194	ug/L	1	03/11/25 16:31	EPA 8081B	
4,4'-DDD	ND	0.0291	0.0291	ug/L	1	03/11/25 16:31	EPA 8081B	R-02
4,4'-DDE	ND	0.0194	0.0194	ug/L	1	03/11/25 16:31	EPA 8081B	
4,4'-DDT	ND	0.0252	0.0252	ug/L	1	03/11/25 16:31	EPA 8081B	R-02
Surrogate: 2,4,5,6-TCMX (Surr)		*Recovery:*	*58 %*	*Limits: 25-140 %*	*1*	*03/11/25 16:31*	*EPA 8081B*	
Decachlorobiphenyl (Surr)			*99 %*	*30-135 %*	*1*	*03/11/25 16:31*	*EPA 8081B*	
T5-GW-46 (A5C0993-02RE1)				**Matrix: Water**		**Batch: 25C0658**		**C-05**
2,4'-DDD	ND	0.00943	0.0189	ug/L	1	03/18/25 13:53	EPA 8081B	
2,4'-DDE	ND	0.00943	0.0189	ug/L	1	03/18/25 13:53	EPA 8081B	
2,4'-DDT	ND	0.00943	0.0189	ug/L	1	03/18/25 13:53	EPA 8081B	
4,4'-DDD	ND	0.00943	0.0189	ug/L	1	03/18/25 13:53	EPA 8081B	
4,4'-DDE	ND	0.00943	0.0189	ug/L	1	03/18/25 13:53	EPA 8081B	
4,4'-DDT	ND	0.00943	0.0189	ug/L	1	03/18/25 13:53	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr)		*Recovery:*	*55 %*	*Limits: 25-140 %*	*1*	*03/18/25 13:53*	*EPA 8081B*	
Decachlorobiphenyl (Surr)			*69 %*	*30-135 %*	*1*	*03/18/25 13:53*	*EPA 8081B*	

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Darrell Auvil, Client Services Manager

Apex Laboratories, LLC
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503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C0993 - 05 29 25 1542**

ANALYTICAL SAMPLE RESULTS

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
T5-GW-35 (A5C0993-01)				**Matrix: Water**		**Batch: 25C0168**		**DCNT**
Acenaphthene	**22.8**	0.177	0.354	ug/L	10	03/05/25 16:06	EPA 8270E LVI	
Acenaphthylene	**5.77**	0.177	0.354	ug/L	10	03/05/25 16:06	EPA 8270E LVI	**Q-30**
Anthracene	**8.03**	0.177	0.354	ug/L	10	03/05/25 16:06	EPA 8270E LVI	
Benz(a)anthracene	**4.80**	0.0884	0.177	ug/L	10	03/05/25 16:06	EPA 8270E LVI	
Benzo(a)pyrene	**6.03**	0.0884	0.177	ug/L	10	03/05/25 16:06	EPA 8270E LVI	
Benzo(b)fluoranthene	**5.48**	0.0884	0.177	ug/L	10	03/05/25 16:06	EPA 8270E LVI	
Benzo(k)fluoranthene	**1.65**	0.0884	0.177	ug/L	10	03/05/25 16:06	EPA 8270E LVI	**M-05**
Benzo(g,h,i)perylene	**4.52**	0.177	0.354	ug/L	10	03/05/25 16:06	EPA 8270E LVI	
Chrysene	**7.29**	0.0884	0.177	ug/L	10	03/05/25 16:06	EPA 8270E LVI	
Dibenz(a,h)anthracene	**0.667**	0.0884	0.177	ug/L	10	03/05/25 16:06	EPA 8270E LVI	
Fluoranthene	**14.6**	0.177	0.354	ug/L	10	03/05/25 16:06	EPA 8270E LVI	
Fluorene	**14.6**	0.177	0.354	ug/L	10	03/05/25 16:06	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	**3.59**	0.0884	0.177	ug/L	10	03/05/25 16:06	EPA 8270E LVI	
1-Methylnaphthalene	**23.1**	0.354	0.707	ug/L	10	03/05/25 16:06	EPA 8270E LVI	
2-Methylnaphthalene	**23.3**	0.354	0.707	ug/L	10	03/05/25 16:06	EPA 8270E LVI	
Naphthalene	**130**	0.354	0.707	ug/L	10	03/05/25 16:06	EPA 8270E LVI	
Phenanthrene	**36.2**	0.354	0.707	ug/L	10	03/05/25 16:06	EPA 8270E LVI	
Pyrene	**20.9**	0.177	0.354	ug/L	10	03/05/25 16:06	EPA 8270E LVI	
Dibenzofuran	**1.64**	0.177	0.354	ug/L	10	03/05/25 16:06	EPA 8270E LVI	
Surrogate: Acenaphthylene-d8 (Surr)			*Recovery: %*	*Limits: 78-134 %*	*10*	*03/05/25 16:06*	*EPA 8270E LVI*	*S-01*
Benzo(a)pyrene-d12 (Surr)			*101 %*	*80-132 %*	*10*	*03/05/25 16:06*	*EPA 8270E LVI*	*S-05*
T5-GW-46 (A5C0993-02)				**Matrix: Water**		**Batch: 25C0168**		**DCNT**
Acenaphthene	**1.05**	0.0174	0.0349	ug/L	1	03/05/25 19:32	EPA 8270E LVI	
Acenaphthylene	ND	0.207	0.207	ug/L	1	03/05/25 19:32	EPA 8270E LVI	Q-30, R-02
Anthracene	**0.616**	0.0174	0.0349	ug/L	1	03/05/25 19:32	EPA 8270E LVI	
Benz(a)anthracene	**0.178**	0.00872	0.0174	ug/L	1	03/05/25 19:32	EPA 8270E LVI	
Benzo(a)pyrene	**0.169**	0.00872	0.0174	ug/L	1	03/05/25 19:32	EPA 8270E LVI	
Benzo(b)fluoranthene	**0.157**	0.00872	0.0174	ug/L	1	03/05/25 19:32	EPA 8270E LVI	
Benzo(k)fluoranthene	**0.0427**	0.00872	0.0174	ug/L	1	03/05/25 19:32	EPA 8270E LVI	**M-05**
Benzo(g,h,i)perylene	**0.130**	0.0174	0.0349	ug/L	1	03/05/25 19:32	EPA 8270E LVI	
Chrysene	**0.243**	0.00872	0.0174	ug/L	1	03/05/25 19:32	EPA 8270E LVI	
Dibenz(a,h)anthracene	**0.0170**	0.00872	0.0174	ug/L	1	03/05/25 19:32	EPA 8270E LVI	**J**

Apex Laboratories

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Darrell Auvil, Client Services Manager

Apex Laboratories, LLC

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

Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C0993 - 05 29 25 1542**

ANALYTICAL SAMPLE RESULTS

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
T5-GW-46 (A5C0993-02)				**Matrix: Water**		**Batch: 25C0168**		**DCNT**
Fluoranthene	**1.05**	0.0174	0.0349	ug/L	1	03/05/25 19:32	EPA 8270E LVI	
Fluorene	**0.860**	0.0174	0.0349	ug/L	1	03/05/25 19:32	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	**0.103**	0.00872	0.0174	ug/L	1	03/05/25 19:32	EPA 8270E LVI	
1-Methylnaphthalene	**0.780**	0.0349	0.0698	ug/L	1	03/05/25 19:32	EPA 8270E LVI	
2-Methylnaphthalene	**0.806**	0.0349	0.0698	ug/L	1	03/05/25 19:32	EPA 8270E LVI	
Naphthalene	**3.31**	0.0349	0.0698	ug/L	1	03/05/25 19:32	EPA 8270E LVI	
Phenanthrene	**3.14**	0.0349	0.0698	ug/L	1	03/05/25 19:32	EPA 8270E LVI	
Pyrene	**1.30**	0.0174	0.0349	ug/L	1	03/05/25 19:32	EPA 8270E LVI	
Dibenzofuran	**0.0881**	0.0174	0.0349	ug/L	1	03/05/25 19:32	EPA 8270E LVI	
Surrogate: Acenaphthylene-d8 (Surr)		*Recovery:*	*81 %*	*Limits:* *78-134 %*	*1*	*03/05/25 19:32*	*EPA 8270E LVI*	
Benzo(a)pyrene-d12 (Surr)			*100 %*	*80-132 %*	*1*	*03/05/25 19:32*	*EPA 8270E LVI*	

Apex Laboratories

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C0993 - 05 29 25 1542**

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
T5-GW-35 (A5C0993-01)				**Matrix: Water**				
Batch: 25C0672								
Arsenic	**12.5**	---	1.00	ug/L	1	03/19/25 05:38	EPA 6020B	
Iron	**34200**	---	50.0	ug/L	1	03/19/25 05:38	EPA 6020B	
Manganese	**1180**	---	1.00	ug/L	1	03/19/25 05:38	EPA 6020B	
T5-GW-46 (A5C0993-02)				**Matrix: Water**				
Batch: 25C0672								
Arsenic	**19.3**	---	1.00	ug/L	1	03/19/25 05:43	EPA 6020B	
T5-GW-46 (A5C0993-02RE2)				**Matrix: Water**				
Batch: 25C0672								
Iron	**114000**	---	500	ug/L	10	03/20/25 17:00	EPA 6020B	
Manganese	**3660**	---	10.0	ug/L	10	03/20/25 17:00	EPA 6020B	

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Darrell Auvil, Client Services Manager

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

ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	
Tigard, OR 97224	Project Manager: **Steve Misner**	**Report ID:** **A5C0993 - 05 29 25 1542**

ANALYTICAL SAMPLE RESULTS

Dissolved Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
T5-GW-35 (A5C0993-01)				**Matrix: Water**				
Batch: 25C0640								
Arsenic	**3.59**	---	1.00	ug/L	1	03/18/25 01:37	EPA 6020B (Diss)	
Iron	**11700**	---	50.0	ug/L	1	03/18/25 01:37	EPA 6020B (Diss)	
Manganese	**875**	---	1.00	ug/L	1	03/18/25 01:37	EPA 6020B (Diss)	
T5-GW-46 (A5C0993-02)				**Matrix: Water**				
Batch: 25C0640								
Arsenic	**16.6**	---	1.00	ug/L	1	03/18/25 01:43	EPA 6020B (Diss)	
T5-GW-46 (A5C0993-02RE1)				**Matrix: Water**				
Batch: 25C0640								
Iron	**106000**	---	500	ug/L	10	03/19/25 03:32	EPA 6020B (Diss)	
Manganese	**3610**	---	10.0	ug/L	10	03/19/25 03:32	EPA 6020B (Diss)	

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ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C0993 - 05 29 25 1542**

ANALYTICAL SAMPLE RESULTS

Anions by Ion Chromatography

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
T5-GW-35 (A5C0993-01)				**Matrix: Water**				
Batch: 25C0196								
Nitrate-Nitrogen	ND	---	0.250	mg/L	1	03/05/25 16:47	EPA 300.0	
Sulfate	**3.94**	---	1.00	mg/L	1	03/05/25 16:47	EPA 300.0	
T5-GW-46 (A5C0993-02)				**Matrix: Water**				
Batch: 25C0196								
Nitrate-Nitrogen	ND	---	0.250	mg/L	1	03/05/25 18:13	EPA 300.0	
Sulfate	**24.1**	---	1.00	mg/L	1	03/05/25 18:13	EPA 300.0	

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15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C0993 - 05 29 25 1542**

QUALITY CONTROL (QC) SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25C0330 - EPA 3510C (Neutral pH)/3640A (GPC)												**Water**
Blank (25C0330-BLK1)			Prepared: 03/06/25 11:42		Analyzed: 03/11/25 14:30							**C-05**
EPA 8081B												
2,4'-DDD	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
2,4'-DDE	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
2,4'-DDT	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
4,4'-DDD	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
4,4'-DDE	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
4,4'-DDT	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 44 %*		*Limits: 25-140 %*				*Dilution: 1x*			
Decachlorobiphenyl (Surr)			*83 %*		*30-135 %*				*"*			
LCS (25C0330-BS1)			Prepared: 03/06/25 11:42		Analyzed: 03/11/25 14:47							**C-05**
EPA 8081B												
2,4'-DDD	0.553	0.0100	0.0200	ug/L	1	0.500	---	111	66-120%	---	---	
2,4'-DDE	0.455	0.0100	0.0200	ug/L	1	0.500	---	91	55-120%	---	---	
2,4'-DDT	0.602	0.0100	0.0200	ug/L	1	0.500	---	120	62-127%	---	---	
4,4'-DDD	0.553	0.0100	0.0200	ug/L	1	0.500	---	111	56-143%	---	---	
4,4'-DDE	0.460	0.0100	0.0200	ug/L	1	0.500	---	92	57-135%	---	---	
4,4'-DDT	0.603	0.0100	0.0200	ug/L	1	0.500	---	121	51-143%	---	---	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 39 %*		*Limits: 25-140 %*				*Dilution: 1x*			
Decachlorobiphenyl (Surr)			*75 %*		*30-135 %*				*"*			
LCS Dup (25C0330-BSD1)			Prepared: 03/06/25 11:42		Analyzed: 03/11/25 15:05							**C-05, Q-19**
EPA 8081B												
2,4'-DDD	0.569	0.0100	0.0200	ug/L	1	0.500	---	114	66-120%	3	30%	
2,4'-DDE	0.478	0.0100	0.0200	ug/L	1	0.500	---	96	55-120%	5	30%	
2,4'-DDT	0.622	0.0100	0.0200	ug/L	1	0.500	---	124	62-127%	3	30%	
4,4'-DDD	0.573	0.0100	0.0200	ug/L	1	0.500	---	115	56-143%	3	30%	
4,4'-DDE	0.498	0.0100	0.0200	ug/L	1	0.500	---	100	57-135%	8	30%	
4,4'-DDT	0.623	0.0100	0.0200	ug/L	1	0.500	---	125	51-143%	3	30%	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 45 %*		*Limits: 25-140 %*				*Dilution: 1x*			
Decachlorobiphenyl (Surr)			*83 %*		*30-135 %*				*"*			

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Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C0993 - 05 29 25 1542**

QUALITY CONTROL (QC) SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25C0658 - EPA 3510C (Neutral pH)/3640A (GPC)												**Water**
Blank (25C0658-BLK1)				Prepared: 03/10/25 11:14		Analyzed: 03/18/25 12:26						**C-05**
EPA 8081B												
2,4'-DDD	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
2,4'-DDE	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
2,4'-DDT	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
4,4'-DDD	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
4,4'-DDE	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
4,4'-DDT	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 48 %*		*Limits: 25-140 %*				*Dilution: 1x*			
Decachlorobiphenyl (Surr)			*65 %*		*30-135 %*				*"*			
LCS (25C0658-BS1)				Prepared: 03/10/25 11:14		Analyzed: 03/18/25 12:44						**C-05**
EPA 8081B												
4,4'-DDD	0.511	0.0100	0.0200	ug/L	1	0.500	---	102	56-143%	---	---	
4,4'-DDE	0.429	0.0100	0.0200	ug/L	1	0.500	---	86	57-135%	---	---	
4,4'-DDT	0.521	0.0100	0.0200	ug/L	1	0.500	---	104	51-143%	---	---	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 46 %*		*Limits: 25-140 %*				*Dilution: 1x*			
Decachlorobiphenyl (Surr)			*57 %*		*30-135 %*				*"*			
LCS (25C0658-BS2)				Prepared: 03/10/25 11:14		Analyzed: 03/18/25 13:18						**C-05**
EPA 8081B												
2,4'-DDD	0.549	0.0100	0.0200	ug/L	1	0.500	---	110	66-120%	---	---	
2,4'-DDE	0.491	0.0100	0.0200	ug/L	1	0.500	---	98	55-120%	---	---	
2,4'-DDT	0.566	0.0100	0.0200	ug/L	1	0.500	---	113	62-127%	---	---	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 50 %*		*Limits: 25-140 %*				*Dilution: 1x*			
Decachlorobiphenyl (Surr)			*66 %*		*30-135 %*				*"*			
LCS Dup (25C0658-BSD1)				Prepared: 03/10/25 11:14		Analyzed: 03/18/25 13:01						**C-05, Q-19**
EPA 8081B												
4,4'-DDD	0.500	0.0100	0.0200	ug/L	1	0.500	---	100	56-143%	2	30%	
4,4'-DDE	0.424	0.0100	0.0200	ug/L	1	0.500	---	85	57-135%	1	30%	
4,4'-DDT	0.504	0.0100	0.0200	ug/L	1	0.500	---	101	51-143%	3	30%	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 42 %*		*Limits: 25-140 %*				*Dilution: 1x*			
Decachlorobiphenyl (Surr)			*57 %*		*30-135 %*				*"*			

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Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C0993 - 05 29 25 1542**

QUALITY CONTROL (QC) SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25C0658 - EPA 3510C (Neutral pH)/3640A (GPC)							**Water**					
LCS Dup (25C0658-BSD2)				Prepared: 03/10/25 11:14 Analyzed: 03/18/25 13:36								**C-05, Q-19**
EPA 8081B												
2,4'-DDD	0.560	0.0100	0.0200	ug/L	1	0.500	---	112	66-120%	2	30%	
2,4'-DDE	0.484	0.0100	0.0200	ug/L	1	0.500	---	97	55-120%	1	30%	
2,4'-DDT	0.582	0.0100	0.0200	ug/L	1	0.500	---	116	62-127%	3	30%	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 52 %*	*Limits: 25-140 %*			*Dilution: 1x*					
Decachlorobiphenyl (Surr)			*63 %*	*30-135 %*			*"*					

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QUALITY CONTROL (QC) SAMPLE RESULTS

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25C0168 - EPA 3511 (Bottle Extraction)								**Water**				
Blank (25C0168-BLK1)			Prepared: 03/05/25 09:42 Analyzed: 03/05/25 14:21									
EPA 8270E LVI												
Acenaphthene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Acenaphthylene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	Q-30
Anthracene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Benz(a)anthracene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Chrysene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Fluoranthene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Fluorene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
1-Methylnaphthalene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
2-Methylnaphthalene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
Phenanthrene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
Pyrene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Carbazole	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Dibenzofuran	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Surr: Acenaphthylene-d8 (Surr)			*Recovery: 81 %*		*Limits: 78-134 %*			*Dilution: 1x*				
Benzo(a)pyrene-d12 (Surr)			*99 %*		*80-132 %*			*"*				
LCS (25C0168-BS1)			Prepared: 03/05/25 09:42 Analyzed: 03/05/25 14:56									
EPA 8270E LVI												
Acenaphthene	1.54	0.0160	0.0320	ug/L	1	1.60	---	96	80-120%	---	---	
Acenaphthylene	1.36	0.0160	0.0320	ug/L	1	1.60	---	85	80-124%	---	---	Q-30
Anthracene	1.43	0.0160	0.0320	ug/L	1	1.60	---	90	80-123%	---	---	
Benz(a)anthracene	1.50	0.00800	0.0160	ug/L	1	1.60	---	94	80-122%	---	---	
Benzo(a)pyrene	1.60	0.00800	0.0160	ug/L	1	1.60	---	100	80-129%	---	---	
Benzo(b)fluoranthene	1.49	0.00800	0.0160	ug/L	1	1.60	---	93	80-124%	---	---	
Benzo(k)fluoranthene	1.53	0.00800	0.0160	ug/L	1	1.60	---	96	80-125%	---	---	
Benzo(g,h,i)perylene	1.40	0.0160	0.0320	ug/L	1	1.60	---	88	80-120%	---	---	

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15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C0993 - 05 29 25 1542**

QUALITY CONTROL (QC) SAMPLE RESULTS

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25C0168 - EPA 3511 (Bottle Extraction)							**Water**					
LCS (25C0168-BS1)			Prepared: 03/05/25 09:42	Analyzed: 03/05/25 14:56								
Chrysene	1.41	0.00800	0.0160	ug/L	1	1.60	---	88	80-120%	---	---	
Dibenz(a,h)anthracene	1.43	0.00800	0.0160	ug/L	1	1.60	---	90	80-120%	---	---	
Fluoranthene	1.39	0.0160	0.0320	ug/L	1	1.60	---	87	80-126%	---	---	
Fluorene	1.63	0.0160	0.0320	ug/L	1	1.60	---	102	77-127%	---	---	
Indeno(1,2,3-cd)pyrene	1.38	0.00800	0.0160	ug/L	1	1.60	---	86	80-121%	---	---	
1-Methylnaphthalene	1.36	0.0320	0.0640	ug/L	1	1.60	---	85	53-148%	---	---	
2-Methylnaphthalene	1.37	0.0320	0.0640	ug/L	1	1.60	---	85	48-150%	---	---	
Naphthalene	1.53	0.0320	0.0640	ug/L	1	1.60	---	96	78-120%	---	---	
Phenanthrene	1.42	0.0320	0.0640	ug/L	1	1.60	---	89	80-120%	---	---	
Pyrene	1.37	0.0160	0.0320	ug/L	1	1.60	---	86	80-125%	---	---	
Carbazole	1.67	0.0160	0.0320	ug/L	1	1.60	---	104	65-141%	---	---	
Dibenzofuran	1.41	0.0160	0.0320	ug/L	1	1.60	---	88	76-121%	---	---	
Surr: Acenaphthylene-d8 (Surr)			*Recovery: 80 %*	*Limits: 78-134 %*			*Dilution: 1x*					
Benzo(a)pyrene-d12 (Surr)			*98 %*	*80-132 %*			*"*					
LCS Dup (25C0168-BSD1)			Prepared: 03/05/25 09:42	Analyzed: 03/05/25 15:31								**Q-19**
EPA 8270E LVI												
Acenaphthene	1.43	0.0160	0.0320	ug/L	1	1.60	---	89	80-120%	8	30%	
Acenaphthylene	1.24	0.0160	0.0320	ug/L	1	1.60	---	**78**	**80-124%**	9	30%	Q-30
Anthracene	1.32	0.0160	0.0320	ug/L	1	1.60	---	83	80-123%	8	30%	
Benz(a)anthracene	1.38	0.00800	0.0160	ug/L	1	1.60	---	86	80-122%	8	30%	
Benzo(a)pyrene	1.47	0.00800	0.0160	ug/L	1	1.60	---	92	80-129%	8	30%	
Benzo(b)fluoranthene	1.41	0.00800	0.0160	ug/L	1	1.60	---	88	80-124%	6	30%	
Benzo(k)fluoranthene	1.41	0.00800	0.0160	ug/L	1	1.60	---	88	80-125%	8	30%	
Benzo(g,h,i)perylene	1.30	0.0160	0.0320	ug/L	1	1.60	---	82	80-120%	7	30%	
Chrysene	1.29	0.00800	0.0160	ug/L	1	1.60	---	81	80-120%	9	30%	
Dibenz(a,h)anthracene	1.33	0.00800	0.0160	ug/L	1	1.60	---	83	80-120%	8	30%	
Fluoranthene	1.30	0.0160	0.0320	ug/L	1	1.60	---	81	80-126%	7	30%	
Fluorene	1.51	0.0160	0.0320	ug/L	1	1.60	---	95	77-127%	8	30%	
Indeno(1,2,3-cd)pyrene	1.28	0.00800	0.0160	ug/L	1	1.60	---	80	80-121%	7	30%	
1-Methylnaphthalene	1.32	0.0320	0.0640	ug/L	1	1.60	---	82	53-148%	3	30%	
2-Methylnaphthalene	1.29	0.0320	0.0640	ug/L	1	1.60	---	81	48-150%	5	30%	
Naphthalene	1.43	0.0320	0.0640	ug/L	1	1.60	---	89	78-120%	7	30%	
Phenanthrene	1.32	0.0320	0.0640	ug/L	1	1.60	---	83	80-120%	7	30%	

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Darrell Auvil, Client Services Manager

Apex Laboratories, LLC

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

Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C0993 - 05 29 25 1542**

QUALITY CONTROL (QC) SAMPLE RESULTS

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25C0168 - EPA 3511 (Bottle Extraction)							**Water**					
LCS Dup (25C0168-BSD1)			Prepared: 03/05/25 09:42		Analyzed: 03/05/25 15:31							**Q-19**
Pyrene	1.27	0.0160	0.0320	ug/L	1	1.60	---	80	80-125%	7	30%	
Carbazole	1.53	0.0160	0.0320	ug/L	1	1.60	---	96	65-141%	9	30%	
Dibenzofuran	1.31	0.0160	0.0320	ug/L	1	1.60	---	82	76-121%	8	30%	
Surr: Acenaphthylene-d8 (Surr)			*Recovery: 78 %*		*Limits: 78-134 %*				*Dilution: 1x*			
Benzo(a)pyrene-d12 (Surr)			*98 %*		*80-132 %*				*"*			

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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 25C0672 - EPA 3015A												**Water**
Blank (25C0672-BLK1)			Prepared: 03/18/25 09:16		Analyzed: 03/19/25 03:37							
EPA 6020B												
Arsenic	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Iron	ND	---	50.0	ug/L	1	---	---	---	---	---	---	
Manganese	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
LCS (25C0672-BS1)			Prepared: 03/18/25 09:16		Analyzed: 03/19/25 03:43							
EPA 6020B												
Arsenic	55.1	---	1.00	ug/L	1	55.6	---	99	80-120%	---	---	
Iron	5620	---	50.0	ug/L	1	5560	---	101	80-120%	---	---	
Manganese	55.3	---	1.00	ug/L	1	55.6	---	100	80-120%	---	---	
Duplicate (25C0672-DUP1)			Prepared: 03/18/25 09:16		Analyzed: 03/19/25 03:53							
QC Source Sample: Non-SDG (A5B1438-04)												
Arsenic	ND	---	1.00	ug/L	1	---	0.532	---	---	***	**20%**	
Iron	**1170**	---	50.0	ug/L	1	---	1250	---	---	7	20%	
Manganese	**37.1**	---	1.00	ug/L	1	---	37.2	---	---	0.3	20%	
Matrix Spike (25C0672-MS1)			Prepared: 03/18/25 09:16		Analyzed: 03/19/25 03:59							
QC Source Sample: Non-SDG (A5B1438-04)												
EPA 6020B												
Arsenic	55.9	---	1.00	ug/L	1	55.6	0.532	100	75-125%	---	---	
Iron	7230	---	50.0	ug/L	1	5560	1250	108	75-125%	---	---	
Manganese	94.8	---	1.00	ug/L	1	55.6	37.2	104	75-125%	---	---	

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15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C0993 - 05 29 25 1542**

QUALITY CONTROL (QC) SAMPLE RESULTS

Dissolved 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 25C0640 - Matrix Matched Direct Inject								**Water**				
Blank (25C0640-BLK1)			Prepared: 03/17/25 10:33		Analyzed: 03/18/25 00:26							
EPA 6020B (Diss)												
Arsenic	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Iron	ND	---	50.0	ug/L	1	---	---	---	---	---	---	
Manganese	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
LCS (25C0640-BS1)			Prepared: 03/17/25 10:33		Analyzed: 03/18/25 00:32							
EPA 6020B (Diss)												
Arsenic	54.0	---	1.00	ug/L	1	55.6	---	97	80-120%	---	---	
Iron	5830	---	50.0	ug/L	1	5560	---	105	80-120%	---	---	
Manganese	56.0	---	1.00	ug/L	1	55.6	---	101	80-120%	---	---	
Duplicate (25C0640-DUP1)			Prepared: 03/17/25 10:33		Analyzed: 03/18/25 00:54							
QC Source Sample: Non-SDG (A5B1416-01)												
Arsenic	ND	---	1.00	ug/L	1	---	0.556	---	---	***	20%	
Iron	**53.7**	---	50.0	ug/L	1	---	81.8	---	---	**41**	**20%**	Q-05
Manganese	**3.93**	---	1.00	ug/L	1	---	4.00	---	---	2	20%	
Matrix Spike (25C0640-MS1)			Prepared: 03/17/25 10:33		Analyzed: 03/18/25 00:59							
QC Source Sample: Non-SDG (A5B1416-01)												
EPA 6020B (Diss)												
Arsenic	53.7	---	1.00	ug/L	1	55.6	0.556	96	75-125%	---	---	
Iron	6420	---	50.0	ug/L	1	5560	81.8	114	75-125%	---	---	
Manganese	58.7	---	1.00	ug/L	1	55.6	4.00	99	75-125%	---	---	

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Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C0993 - 05 29 25 1542**

QUALITY CONTROL (QC) SAMPLE RESULTS

Anions by Ion Chromatography

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25C0196 - Method Prep: Aq							**Water**					
Blank (25C0196-BLK1)			Prepared: 03/05/25 14:46		Analyzed: 03/05/25 16:04							
EPA 300.0												
Nitrate-Nitrogen	ND	---	0.250	mg/L	1	---	---	---	---	---	---	
Sulfate	ND	---	1.00	mg/L	1	---	---	---	---	---	---	
LCS (25C0196-BS1)			Prepared: 03/05/25 14:46		Analyzed: 03/05/25 16:26							
EPA 300.0												
Nitrate-Nitrogen	1.95	---	0.250	mg/L	1	2.00	---	98	90-110%	---	---	
Sulfate	7.73	---	1.00	mg/L	1	8.00	---	97	90-110%	---	---	
Duplicate (25C0196-DUP1)			Prepared: 03/05/25 14:46		Analyzed: 03/05/25 17:09							
QC Source Sample: T5-GW-35 (A5C0993-01)												
EPA 300.0												
Nitrate-Nitrogen	ND	---	0.250	mg/L	1	---	ND	---	---	---	10%	
Sulfate	**3.95**	---	1.00	mg/L	1	---	3.94	---	---	0.2	10%	
Duplicate (25C0196-DUP2)			Prepared: 03/05/25 14:46		Analyzed: 03/05/25 21:49							
QC Source Sample: Non-SDG (A5C1035-01)												
Nitrate-Nitrogen	**0.313**	---	0.250	mg/L	1	---	0.312	---	---	0.4	10%	
Sulfate	**11.6**	---	1.00	mg/L	1	---	11.6	---	---	0.1	10%	
Matrix Spike (25C0196-MS1)			Prepared: 03/05/25 14:46		Analyzed: 03/05/25 17:30							
QC Source Sample: T5-GW-35 (A5C0993-01)												
EPA 300.0												
Nitrate-Nitrogen	2.45	---	0.312	mg/L	1	2.50	ND	98	87-112%	---	---	
Sulfate	13.6	---	1.25	mg/L	1	10.0	3.94	97	88-115%	---	---	
Matrix Spike (25C0196-MS2)			Prepared: 03/05/25 14:46		Analyzed: 03/05/25 22:10							
QC Source Sample: Non-SDG (A5C1035-01)												
EPA 300.0												
Nitrate-Nitrogen	2.78	---	0.312	mg/L	1	2.50	0.312	99	87-112%	---	---	
Sulfate	21.4	---	1.25	mg/L	1	10.0	11.6	99	88-115%	---	---	

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ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	
Tigard, OR 97224	Project Manager: **Steve Misner**	**Report ID:** **A5C0993 - 05 29 25 1542**

SAMPLE PREPARATION INFORMATION

Organochlorine Pesticides by EPA 8081B

Prep: EPA 3510C (Neutral pH)/3640A (GPC)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25C0330							
A5C0993-01RE1	Water	EPA 8081B	03/04/25 12:44	03/06/25 11:42	1030mL/10mL	1000mL/5mL	1.94
Batch: 25C0658							
A5C0993-02RE1	Water	EPA 8081B	03/04/25 15:44	03/10/25 11:14	1060mL/10mL	1000mL/5mL	1.89

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Prep: EPA 3511 (Bottle Extraction)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25C0168							
A5C0993-01	Water	EPA 8270E LVI	03/04/25 12:44	03/05/25 09:42	113.14mL/5mL	125mL/5mL	1.10
A5C0993-02	Water	EPA 8270E LVI	03/04/25 15:44	03/05/25 09:42	114.63mL/5mL	125mL/5mL	1.09

Total Metals by EPA 6020B (ICPMS)

Prep: EPA 3015A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25C0672							
A5C0993-01	Water	EPA 6020B	03/04/25 12:44	03/18/25 09:16	45mL/50mL	45mL/50mL	1.00
A5C0993-02	Water	EPA 6020B	03/04/25 15:44	03/18/25 09:16	45mL/50mL	45mL/50mL	1.00
A5C0993-02RE2	Water	EPA 6020B	03/04/25 15:44	03/18/25 09:16	45mL/50mL	45mL/50mL	1.00

Dissolved Metals by EPA 6020B (ICPMS)

Prep: Matrix Matched Direct Inject

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25C0640							
A5C0993-01	Water	EPA 6020B (Diss)	03/04/25 12:44	03/17/25 10:33	45mL/50mL	45mL/50mL	1.00
A5C0993-02	Water	EPA 6020B (Diss)	03/04/25 15:44	03/17/25 10:33	45mL/50mL	45mL/50mL	1.00
A5C0993-02RE1	Water	EPA 6020B (Diss)	03/04/25 15:44	03/17/25 10:33	45mL/50mL	45mL/50mL	1.00

Anions by Ion Chromatography

Prep: Method Prep: Aq

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25C0196							

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ANALYTICAL REPORT

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Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
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Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C0993 - 05 29 25 1542**

SAMPLE PREPARATION INFORMATION

Anions by Ion Chromatography

Prep: Method Prep: Aq

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A5C0993-01	Water	EPA 300.0	03/04/25 12:44	03/05/25 14:46	5mL/5mL	5mL/5mL	1.00
A5C0993-02	Water	EPA 300.0	03/04/25 15:44	03/05/25 14:46	5mL/5mL	5mL/5mL	1.00

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QUALIFIER DEFINITIONS

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

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C-05	Extract has undergone a GPC (Gel-Permeation Chromatography) cleanup per EPA 3640A. Reporting levels may be raised due to dilution necessary for cleanup. Sample Final Volume includes the GPC dilution factor, see the Prep page for details.
DCNT	Sample decanted due to the presence of sediment in water samples, or water in sediment or soil samples. (Note: Decanted aqueous sample bottles are not solvent rinsed.)
J	Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified DL.
M-05	Estimated results. Peak separation for structural isomers is insufficient for accurate quantification.
Q-05	Analyses are not controlled on RPD values from sample and duplicate concentrations that are below 5 times the reporting level.
Q-19	Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis.
Q-30	Recovery for Lab Control Spike (LCS) is below the lower control limit. Data may be biased low.
R-02	The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
S-01	Surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference.
S-05	Surrogate recovery is estimated due to sample dilution required for high analyte concentration and/or matrix interference.

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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)

Validated 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 and Detection Limits: Default Limits

Default Reporting and Detection Limits are based on 100% dry weight with the minimum dilution for the analysis. Reporting and Detection Limits are raised due to moisture content, additional dilutions required for analysis, matrix interferences and in other cases, as necessary.

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 one half of the Reporting Limit (RL).
Blank results for gravimetric analyses are evaluated to the Reporting Level, not to half of the Reporting Level.
-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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Decanted Samples:

Soils/Sediments:
Unless TCLP analysis is required or there is notification otherwise for a specific project, all Soil and Sediments containing excess water are decanted prior to analysis in order to provide the most representative sample for analysis.

Water Samples:
Water samples containing solids and sediment may need to be decanted in order to eliminate these particulates from the water extractions. In the case of organics extractions, a solvent rinse of the container will not be performed.

Volatiles Soils (5035s)
Samples that are field preserved by 5035 for volatiles are dry weight corrected using the same dry weight corretion as for normal analyses. In the case of decanted samples, the dry weight may be performed on a decanted sample, while the aliquot for 5035 may not have been treated the same way. If this is a concern, please submit separate containers for dry weight analysis for volatiles can be provided.

All samples decanted in the laboratory are noted in this report with the DCNT qualifier indicating the sample was decanted.

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ANALYTICAL REPORT

AMENDED REPORT

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15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C0993 - 05 29 25 1542**

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

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

Secondary Accreditations

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

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.
Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

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

Apex Laboratories

Darrell Auvil, Client Services Manager

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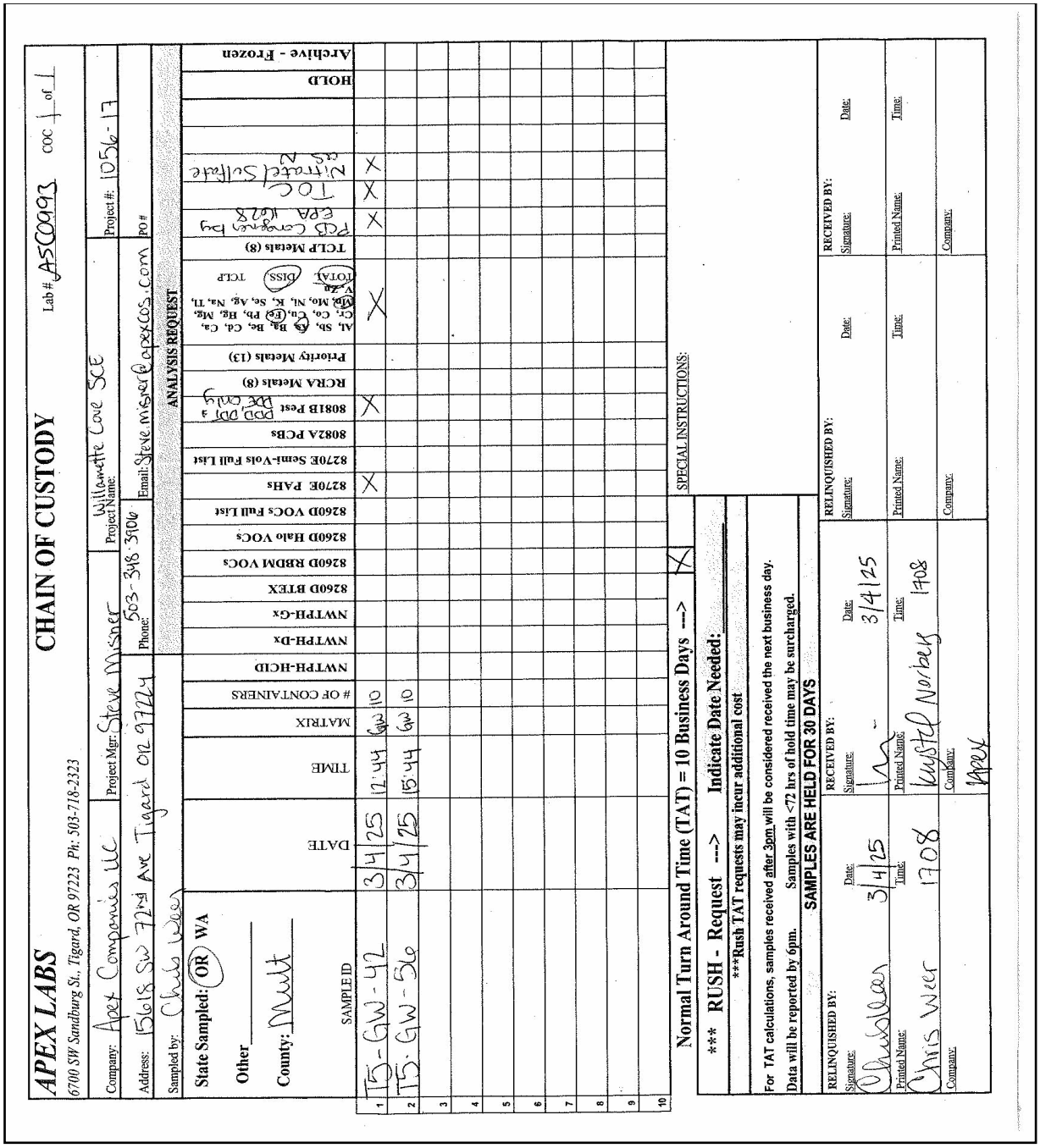
Apex Laboratories, LLC
6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C0993 - 05 29 25 1542**



APEX LABS — 6700 SW Sandburg St., Tigard, OR 97223 Ph: 503-718-2323

CHAIN OF CUSTODY Lab # A5C0993 coc 1 of 1

Company: Apex Companies LLC | Project Mgr: Steve Misner | Project Name: Willamette Cove SCE | Project #: 1056-17

Address: 15618 SW 72nd Ave Tigard OR 97224 | Phone: 503-348-3106 | Email: steve.misner@apexcos.com | PO #

Sampled by: Chris Weer

State Sampled: (OR) WA | Other ____ | County: Mult

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID	NWTPH-Dx	NWTPH-Gx	8260D BTEX	8260D RBDM VOCs	8260D Halo VOCs	8260D VOCs Full List	8270E PAHs	8270E Semi-Vols Full List	8082A PCBs	8081B Pest (PCB only)	RCRA Metals (8)	Priority Metals (13)	Al, Sb, (Ag) Ba, Be, Cd, Ca, Cr, Co, Cu, (Fe) Pb, Hg, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Tl, V, Zn TOTAL (DISS) TCLP	TCLP Metals (8)	PCB Compound by EPA 1628	TOC Nitrate Sulfate	HOLD	Archive - Frozen
1 TS-GW-02	3/4/25	12:44	GW	10								X						X					
2 TS-GW-01	3/4/25	15:44	GW	10														X					
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							

SPECIAL INSTRUCTIONS:

Normal Turn Around Time (TAT) = 10 Business Days ---> X

***** RUSH - Request ---> Indicate Date Needed: _____**

*****Rush TAT requests may incur additional cost**

For TAT calculations, samples received after 3pm will be considered received the next business day.
Data will be reported by 6pm. Samples with <72 hrs of hold time may be surcharged.

SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY: Signature: Chris Weer | Date: 3/4/25 | Time: 17:08 | Printed Name: Chris Weer | Company: Apex

RECEIVED BY: Signature: [illegible] | Date: 3/4/25 | Time: 17:08 | Printed Name: Kristel Norbeg | Company: Apex

RELINQUISHED BY: Signature: _____ | Date: _____ | Time: _____ | Printed Name: _____ | Company: _____

RECEIVED BY: Signature: _____ | Date: _____ | Time: _____ | Printed Name: _____ | Company: _____

Apex Laboratories

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Darrell Auvil, Client Services Manager

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

ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C0993 - 05 29 25 1542**

APEX LABS COOLER RECEIPT FORM

Client: Apex Companies, LLC Element WO#: A5C0993

Project/Project #: Willamette Cove GWSCE / 1056-17 KN 3/4/25

Delivery Info:

Date/time received: 3/4/25 @ 1708 By: KN

Delivered by: Apex__Client X ESS__FedEx__UPS__Radio__Morgan__SDS__Evergreen__Other__

From USDA Regulated Origin? Yes _____ No ✓

Cooler Inspection Date/time inspected: 3/4/25 @ 1708 By: KN

Chain of Custody included? Yes ✓ No _____

Signed/dated by client? Yes ✓ No _____

Contains USDA Reg. Soils? Yes _____ No ✓ Unsure (email RegSoils) _____

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	1.1						
Custody seals? (Y/N)	N						
Received on ice? (Y/N)	Y						
Temp. blanks? (Y/N)	Y						
Ice type: (Gel/Real/Other)	Real						
Condition (In/Out):	In						

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: 3/4/25 @ 1740 By: ZA

All samples intact? Yes ✓ No ___ Comments: _____

Bottle labels/COCs agree? Yes ✓ No ___ Comments: _____

COC/container discrepancies form initiated? Yes ___ No ✓

Containers/volumes received appropriate for analysis? Yes ✓ No ___ Comments: _____

Do VOA vials have visible headspace? Yes ___ No ___ NA ✓

Comments _____

Water samples: pH checked: Yes ✓ No ___ NA ___ pH appropriate? Yes ✓ No ___ NA ___ pH ID: A23I172

Comments: _____

Labeled by: ZA Witness: EKAM Cooler Inspected by: ZA

Form Y-003 R-02

Apex Laboratories

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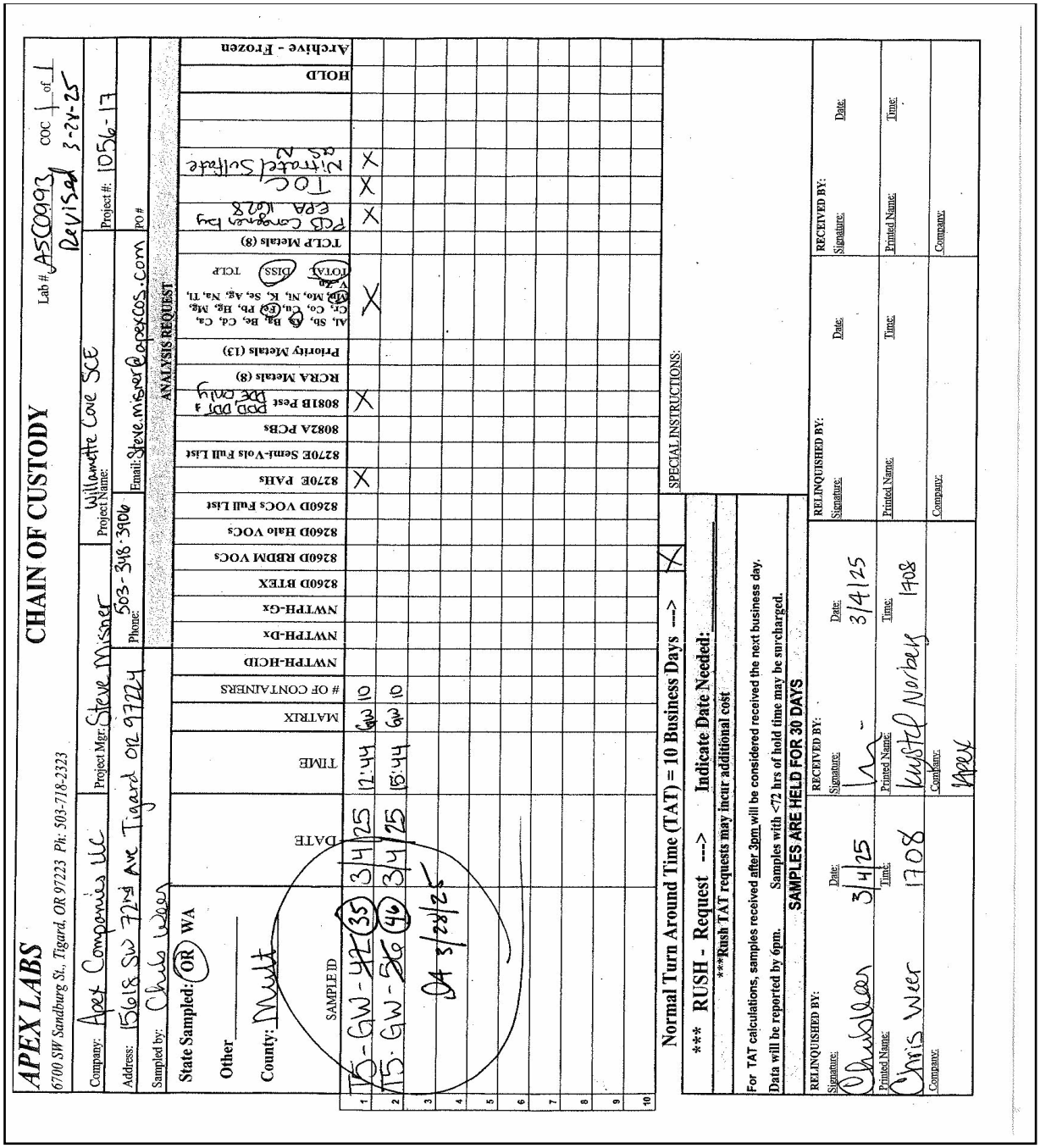
Darrell Auvil, Client Services Manager

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

ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C0993 - 05 29 25 1542**



APEX LABS
6700 SW Sandburg St., Tigard, OR 97223 Ph: 503-718-2323

CHAIN OF CUSTODY

Lab # A5C0993 COC 1 of 1
Revised 5-27-25

Company: Apex Companies LLC
Project Mgr: Steve Misner
Project Name: Willamette Cove SCE
Project #: 1056-17
Address: 15618 SW 72nd Ave Tigard OR 97224
Phone: 503-348-3900
Email: Steve.misner@apexcos.com
PO #
Sampled by: Chris Weer

State Sampled: (OR) WA
Other
County: Mult

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID	NWTPH-Dx	NWTPH-Gx	8260D BTEX	8260D RBDM VOCs	8260D Halo VOCs	8260D VOCs Full List	8270E PAHs	8270E Semi-Vols Full List	8082A PCBs	8081B Pest (DDD, DDE, DDT only)	RCRA Metals (8)	Priority Metals (13)	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Hg, Mg, Mo, Ni, K, Se, Ag, Na, Tl, V, Zn TOTAL DISS TCLP	TCLP Metals (8)	FSG Contains EPA 1628	TOC as Natural Soil/Sed	HOLD	Archive - Frozen
1 TS-GW-42 (35)	3/4/25	12:44	GW	10								X						X		X	X		
2 TS-GW-56 (46)	3/4/25	15:44	GW	10																			
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							

04 3/28/25

Normal Turn Around Time (TAT) = 10 Business Days ---> X
*** RUSH - Request ---> Indicate Date Needed: _____
***Rush TAT requests may incur additional cost

SPECIAL INSTRUCTIONS:

For TAT calculations, samples received after 3pm will be considered received the next business day.
Data will be reported by 6pm. Samples with <72 hrs of hold time may be surcharged.
SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY:	Date:	RECEIVED BY:	Date:	RELINQUISHED BY:	Date:	RECEIVED BY:	Date:
Signature:		Signature:	3/4/25	Signature:		Signature:	
Printed Name: Chris Weer	Time: 1708	Printed Name: Kristel Norberg	Time: 1908	Printed Name:	Time:	Printed Name:	Time:
Company:		Company: APEX		Company:		Company:	

Apex Laboratories

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Darrell Auvil, Client Services Manager

CERES Analytical Laboratory, Inc.
4919 Windplay Dr. Suite 1, El Dorado Hills, CA 95762

March 28, 2025 Ceres ID: 19234-Rev1

Apex Laboratories
6700 S.W. Sandburg Street
Tigard, OR 97223

The following report contains the results for the two aqueous samples received on March 6, 2025. These samples were analyzed for congener PCBs by EPA method 1668C. Standard 3-week turn-around time was provided for this work.

Revisions consisted of changing the Sample IDs per your request.

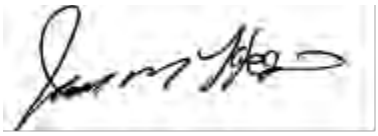
This work was authorized under Apex Laboratories' Project # A5C0993.

Continuing Calibration Verification (CCV) Requirements
All associated calibration verification standard(s) (CCV) met the acceptance criteria.

The report consists of a Cover Letter, Sample Inventory (Section I), Data Summary (Section II), Sample Tracking (Section VI), and Qualifiers/Abbreviations (Section VII). Raw Data (Section III), Continuing Calibration (Section IV), and Initial Calibration (Section V) are available in a full report (.pdf format) upon request.

If you have any questions regarding this report, please feel free to contact me at (916)932-5011.

Sincerely,



James M. Hedin
Director of Operations/CEO
jhedin@ceres-lab.com

Section I: Sample Inventory

Ceres Sample ID:	Sample ID	Date Received	Collection Date	&Time
19234-001	T5-GW-35	3/6/2025	3/4/2025	12:44
19234-002	T5-GW-46	3/6/2025	3/4/2025	15:44

Section II: Data Summary

Sample ID: Method Blank

	Ceres ID:	0-3442-MB		**Date Received:**	NA
Project ID:	A5C0993	**QC Batch #:**	3442	**Date Extracted:**	14-Mar-25
Matrix:	Aqueous	**Sample Size:**	1.000 L	**Analyzed Date:**	15-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2-MoCB	1	ND		20.0	2.08
3-MoCB	2	ND		20.0	3.49
4-MoCB	3	ND		20.0	3.49
2,2'-/2,6-DiCB	4/10	ND		20.0	8.07
2,4-/2,5-DiCB	7/9	ND		20.0	8.07
2,3'-DiCB	6	ND		20.0	8.07
2,3-/2,4'-DiCB	5/8	ND		20.0	8.07
3,5-DiCB	14	ND		20.0	8.31
3,3'-DiCB	11	ND		20.0	8.31
3,4-/3,4'-DiCB	12/13	ND		20.0	8.31
4,4'-DiCB	15	ND		20.0	8.31
2,2',6-TrCB	19	ND		20.0	4.97
2,4,6-TrCB	30	ND		20.0	4.97
2,2',5-TrCB	18	ND		20.0	4.97
2,2',4-TrCB	17	ND		20.0	4.97
2,3,6-/2,3',6-TrCB	24/27	ND		20.0	4.97
2,2',3-/2,4',6-TrCB	16/32	ND		20.0	4.97
2',3,5-TrCB	34	ND		20.0	5.86
2,3,5-TrCB	23	ND		20.0	5.86
2,4,5-TrCB	29	ND		20.0	5.86
2,3',5-TrCB	26	ND		20.0	5.86
2,3',4-TrCB	25	ND		20.0	5.86
2,4',5-TrCB	31	ND		20.0	5.86
2,4,4'-TrCB	28	ND		20.0	5.86
2,3,3'-/2,3,4-/2',3,4-TrCB	20/21/33	ND		20.0	5.86
2,3,4'-TrCB	22	ND		20.0	5.86
3,3',5-TrCB	36	ND		20.0	5.86
3,4',5-TrCB	39	ND		20.0	5.86
3,4,5-TrCB	38	ND		20.0	5.86
3,3',4-TrCB	35	ND		20.0	5.86
3,4,4'-TrCB	37	ND		20.0	5.86
2,2',6,6'-TeCB	54	ND		20.0	3.75
2,2',4,6-TeCB	50	ND		20.0	3.75
2,2',5,6'-TeCB	53	ND		20.0	3.75
2,2',4,6'-TeCB	51	ND		20.0	3.75
2,2',3,6-TeCB	45	ND		20.0	3.75
2,2',3,6'-TeCB	46	ND		20.0	3.75
2,2',5,5'-/2,3',4,6-TeCB	52/69	ND		20.0	3.75
2,3',5',6-TeCB	73	ND		20.0	3.75
2,2',3-5-/2,2',4,5'-TeCB	43/49	ND		20.0	3.75
2,2',4,4'-TeCB	47	ND		20.0	3.75
2,2',4,5-/2,4,4',6-TeCB	48/75	ND		20.0	3.75
2,3,5,6-TeCB	65	ND		20.0	3.75
2,3,4,6-TeCB	62	ND		20.0	3.75

Sample ID: Method Blank

		Ceres ID:	0-3442-MB	**Date Received:**	NA
Project:	A5C0993	**QC Batch #:**	3442	**Date Extracted:**	14-Mar-25
Matrix:	Aqueous	**Sample Size:**	1.000 L	**Analyzed Date:**	15-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2,2',3,5'-TeCB	44	ND		20.0	3.75
2,2',3,4'-/2,3,3',6-TeCB	42/59	ND		20.0	3.75
2,2',3,4-/2,3,4',6-/2,3',4',6-/2,3',5,5'-TeCB	41/64/71/72	ND		20.0	3.75
2,3',4,5'-TeCB	68	ND		20.0	3.75
2,2',3,3'-TeCB	40	ND		20.0	3.75
2,3,3',5-TeCB	57	ND		20.0	3.75
2,3',4,5-TeCB	67	ND		20.0	3.75
2,3,3',5'-TeCB	58	ND		20.0	3.75
2,3,4',5-TeCB	63	ND		20.0	3.75
2,4,4',5-TeCB	74	ND		20.0	3.75
2,3,4,5-/2,3',4',5-TeCB	61/70	ND		20.0	3.75
2,3',4,4'-/2',3,4,5-TeCB	66/76	ND		20.0	3.75
3,3',5,5'-TeCB	80	ND		20.0	3.75
2,3,3',4-TeCB	55	ND		20.0	3.75
2,3,3',4'-/2,3,4,4'-TeCB	56/60	ND		20.0	3.59
3,3',4,5'-TeCB	79	ND		20.0	3.59
3,3',4,5-TeCB	78	ND		20.0	3.59
3,4,4',5-TeCB	81	ND		20.0	3.59
3,3',4,4'-TeCB	77	ND		20.0	5.22
2,2',4,6,6'-PeCB	104	ND		20.0	4.75
2,2',3,6,6'-PeCB	96	ND		20.0	4.75
2,2',4,5'6-PeCB	103	ND		20.0	4.75
2,2',4,4',6-PeCB	100	ND		20.0	4.75
2,2',3,5,6'-PeCB	94	ND		20.0	4.75
2,2',3,5,6-/2,2',3,5',6-/2,2',3',4,6-/2,2',4,5,6'-PeCB	93/95/98/102	ND		20.0	4.75
2,2',3,4,6-PeCB	88/91	ND		20.0	4.75
2,3',4,5',6-PeCB	121	ND		20.0	4.75
2,2',3,3',6-/2,2',3,5,5'-PeCB	84/92	ND		20.0	3.46
2,2',3,4,6'-PeCB	89	ND		20.0	3.46
2,2',3,4',5-/2,2',4,5,5'-PeCB	90/101	ND		20.0	3.46
2,3,3',5',6-PeCB	113	ND		20.0	3.46
2,2',4,4',5-PeCB	99	ND		20.0	3.46
2,2',3,3',5-PeCB	83	ND		20.0	3.46
2,3,3',5,6-/2,3',4,4',6-PeCB	112/119	ND		20.0	3.46
2,3,3',4,6-PeCB	109	ND		20.0	3.46
2,2',3',4,5-PeCB	97	ND		20.0	3.46
2,2',3,4,5-PeCB	86	ND		20.0	3.46
2,2',3,4,5'-/2,3,4',5,6-/2',3,4,5,6'-PeCB	87/117/125	ND		20.0	3.46
2,3,3',5,5'-/2,3,4,4',6-PeCB	111/115	ND		20.0	3.46
2,2',3,4,4'-/2,3,4,5,6-PeCB	85/116	ND		20.0	3.46
2,3',4,5,5'-PeCB	120	ND		20.0	3.46
2-3,3',4',6-PeCB	110	ND		20.0	3.46

Sample ID: Method Blank

		Ceres ID:	0-3442-MB		**Date Received:**	NA
Project:	A5C0993	**QC Batch #:**	3442		**Date Extracted:**	14-Mar-25
Matrix:	Aqueous	**Sample Size:**	1.000	L	**Analyzed Date:**	15-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2,2',3,3',4-PeCB	82	ND		20.0	3.46
2',3,4,5,5'-PeCB	124	ND		20.0	3.46
2,3,3',4',5-/2,3,3',4,5'-PeCB	107/108	ND		20.0	3.46
2,3',4,4',5'-PeCB	123	ND		20.0	3.46
2,3,3',4,5-/2,3',4,4',5-PeCB	106/118	ND		20.0	5.58
2,3,4,4',5-PeCB	114	ND		20.0	3.25
2',3,3',4,5-PeCB	122	ND		20.0	3.25
2,3,3',4,4'-PeCB	105	ND		20.0	4.87
3,3',4,5,5'-PeCB	127	ND		20.0	4.87
3,3',4,4',5-PeCB	126	ND		20.0	5.73
2,2',4,4',6,6'-HxCB	155	ND		20.0	4.86
2,2',3,4',6,6'-HxCB	150	ND		20.0	4.86
2,2',3,5,6,6'-HxCB	152	ND		20.0	4.86
2,2',3,4,6,6'-HxCB	145	ND		20.0	4.86
2,2',3,3',6,6'-HxCB	136	ND		20.0	4.86
2,2',3,4',5,6'-HxCB	148	ND		20.0	4.86
2,2',4,4',5',6-HxCB	154	ND		20.0	4.86
2,2',3,5,5',6-HxCB	151	ND		20.0	4.86
2,2',3,3',5,6'-HxCB	135	ND		20.0	4.86
2,2',3,4,5',6-HxCB	144	ND		20.0	4.86
2,2',3,4',5,6-HxCB	147	ND		20.0	4.86
2,2',3,4,4',6-/2,2',3,4',5',6-HxCB	139/149	ND		20.0	4.86
2,2',3,4,4',6'-HxCB	140	ND		20.0	4.86
2,2',3,3',5,6-/2,2',3,4,5,6'-HxCB	134/143	ND		20.0	5.19
2,2',3,3',4,6-/2,2',3,4,5,6-HxCB	131/142	ND		20.0	5.19
2,2',3,3',5,5'-HxCB	133	ND		20.0	5.19
2,2',3,3',4,6'-/2,2',3,4',5,5'-HxCB	132/146	ND		20.0	5.19
2,3,3',4,5',6-/2,3,3',5,5',6-HxCB	161/165	ND		20.0	5.19
2,2',4,4',5,5'-HxCB	153	ND		20.0	5.19
2,3',4,4',5',6-HxCB	168	ND		20.0	5.19
2,2',3,4,5,5'-HxCB	141	ND		20.0	5.19
2,2',3,4,4',5-HxCB	137	ND		20.0	5.19
2,2',3,3',4,5'-HxCB	130	ND		20.0	5.19
2,2',3,4,4',5-/2,3,3',4',5,6-/2,3,3',4',5',6-HxCB	138/163/164	ND		20.0	5.19
2,3,3',4,4',6-/2,3,3',4,5,6-HxCB	158/160	ND		20.0	5.19
2,2',3,3',4,5-HxCB	129	ND		20.0	5.19
2,3,4,4',5,6-HxCB	166	ND		20.0	5.19
2,3,3',4,5,5'-HxCB	159	ND		20.0	5.19
2,2',3,3',4,4'-/2,3,3',4',5,5'-HxCB	128/162	ND		20.0	5.19
2,3',4,4',5,5'-HxCB	167	ND		20.0	5.19
2,3,3',4,4',5-HxCB	156	ND		20.0	4.13
2,3,3',4,4',5'-HxCB	157	ND		20.0	6.07
3,3',4,4',5,5'-HxCB	169	ND		20.0	5.20

Sample ID: Method Blank

		Ceres ID:	0-3442-MB		**Date Received:**	NA
Project:	A5C0993	**QC Batch #:**	3442		**Date Extracted:**	14-Mar-25
Matrix:	Aqueous	**Sample Size:**	1.000	L	**Analyzed Date:**	15-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2,2',3,4',5,6,6'-HpCB	188	ND		20.0	5.69
2,2',3,4,4',6,6'-HpCB	184	ND		20.0	5.69
2,2',3,3',5,6,6'-HpCB	179	ND		20.0	5.69
2,2',3,3',4,6,6'-HpCB	176	ND		20.0	5.69
2,2',3,4,5,6,6'-HpCB	186	ND		20.0	5.69
2,2',3,3',5,5',6-HpCB	178	ND		20.0	5.69
2,2',3,3',4,5',6-HpCB	175	ND		20.0	5.69
2,2',3,4,4',5,6'-/2,2',3,4',5,5',6-HpCB	182/187	ND		20.0	5.69
2,2',3,4,4',5',6-HpCB	183	ND		20.0	5.69
2,2',3,4,5,5',6-HpCB	185	ND		20.0	3.69
2,2',3,3',4,5,6'-HpCB	174	ND		20.0	3.69
2,2',3,4,4',5,6-HpCB	181	ND		20.0	3.69
2,2',3,3',4',5,6-HpCB	177	ND		20.0	3.69
2,2',3,3',4,4',6-HpCB	171	ND		20.0	3.69
2,2',3,3',4,5,6-HpCB	173	ND		20.0	3.69
2,2',3,3',4,5,5'-HpCB	172	ND		20.0	3.69
2,3,3',4,5,5',6-HpCB	192	ND		20.0	3.69
2,2',3,4,4',5,5'-HpCB	180	ND		20.0	3.69
2,3,3',4',5,5',6-HpCB	193	ND		20.0	3.69
2,3,3',4,4',5',6-HpCB	191	ND		20.0	3.69
2,2',3,3',4,4',5-HpCB	170	ND		20.0	3.69
2,3,3',4,4',5,6-HpCB	190	ND		20.0	3.69
2,3,3',4,4',5,5'-HpCB	189	ND		20.0	3.69
2,2',3,3',5,5',6,6'-OcCB	202	ND		20.0	4.31
2,2',3,3',4,5',6,6'-OcCB	201	ND		20.0	4.31
2,2',3,4,4',5,6,6'-OcCB	204	ND		20.0	4.31
2,2',3,3',4,4',6,6'-OcCB	197	ND		20.0	4.31
2,2',3,3',4,5,6,6'-OcCB	200	ND		20.0	4.31
2,2',3,3',4,5,5',6-OcCB	198	ND		20.0	4.31
2,2',3,3',4,5,5',6'-OcCB	199	ND		20.0	4.31
2,2',3,3',4,4',5,6'-/2,2',3,4,4',5,5',6-OcCB	196/203	ND		20.0	4.31
2,2',3,3',4,4',5,6-OcCB	195	ND		20.0	7.16
2,2',3,3',4,4',5,5'-OcCB	194	ND		20.0	7.16
2,3,3',4,4',5,5',6-OcCB	205	ND		20.0	7.16
2,2',3,3',4,5,5',6,6'-NoCB	208	ND		20.0	3.75
2,2',3,3',4,4',5,6,6'-NoCB	207	ND		20.0	3.75
2,2',3,3',4,4',5,5',6-NoCB	206	ND		20.0	5.61
Decachlorobiphenyl	209	ND		20.0	4.14

Sample ID: Method Blank

		Ceres ID:	0-3442-MB	**Date Received:**	NA
Project:	A5C0993	**QC Batch #:**	3442	**Date Extracted:**	14-Mar-25
Matrix:	Aqueous	**Sample Size:**	1.000 L	**Analyzed Date:**	15-Mar-25

Totals	**Chlorination Level**	**Conc. (pg/L)**	**Qual.**	**RL**
Monochlorobiphenyl	MoCB	0		20.0
Dichlorobiphenyl	DiCB	0		20.0
Trichlorobiphenyl	TrCB	0		20.0
Tetrachlorobiphenyl	TeCB	0		20.0
Pentachlorobiphenyl	PeCB	0		20.0
Hexachlorobiphenyl	HxCB	0		20.0
Heptachlorobiphenyl	HpCB	0		20.0
Octachlorobiphenyl	OcCB	0		20.0
Nonachlorobiphenyl	NoCB	0		20.0
Decachlorobiphenyl	DeCB	ND		20.0

Labeled Standards	**Congener #**	**% Rec.**	**Limits**
$^{13}C_{12}$-2-MoCB	1	133	5-145
$^{13}C_{12}$-4-MoCB	3	117	5-145
$^{13}C_{12}$-2,2'-DiCB	4	107	5-145
$^{13}C_{12}$-4,4'-DiCB	15	87.1	5-145
$^{13}C_{12}$-2,2',6-TrCB	19	142	5-145
$^{13}C_{12}$-3,4,4'-TrCB	37	46.3	5-145
$^{13}C_{12}$-2,2',6,6'-TeCB	54	54.4	5-145
$^{13}C_{12}$-3,4,4',5-TeCB	81	99.2	10-145
$^{13}C_{12}$-3,3',4,4'-TeCB	77	96.4	10-145
$^{13}C_{12}$-2,2',4,6,6'-PeCB	104	93.8	10-145
$^{13}C_{12}$-2,3',4,4',5'-PeCB	123	101	10-145
$^{13}C_{12}$-2,3',4,4',5-PeCB	118	101	10-145
$^{13}C_{12}$-2,3,4,4',5-PeCB	114	62.1	10-145
$^{13}C_{12}$-2,3,3',4,4'-PeCB	105	63.8	10-145
$^{13}C_{12}$-3,3',4,4',5-PeCB	126	58.9	10-145
$^{13}C_{12}$-2,2',4,4',6,6'-HxCB	155	127	10-145
$^{13}C_{12}$-2,3',4,4',5,5'-HxCB	167	95.3	10-145
$^{13}C_{12}$-2,3,3',4,4',5-HxCB	156	95.5	10-145
$^{13}C_{12}$-2,3,3',4,4',5'-HxCB	157	92.1	10-145
$^{13}C_{12}$-3,3',4,4',5,5'-HxCB	169	93.0	10-145
$^{13}C_{12}$-2,2',3,4',5,6,6'-HpCB	188	113	10-145
$^{13}C_{12}$-2,3,3',4,4',5,5'-HpCB	189	122	10-145
$^{13}C_{12}$-2,2',3,3',5,5',6,6'-OcCB	202	135	10-145
$^{13}C_{12}$-2,3,3',4,4',5,5',6-OcCB	205	92.4	10-145
$^{13}C_{12}$-2,2',3,3',4,5,5',6,6'-NoCB	208	98.5	10-145
$^{13}C_{12}$-2,2',3,3',4,4',5,5',6-NoCB	206	128	10-145
$^{13}C_{12}$-Decachlorobiphenyl	209	134	10-145
Cleanup Standards			
$^{13}C_{12}$-2,4,4'-TrCB	28	49.6	5-145
$^{13}C_{12}$-2,3,3',5,5'-PeCB	111	107	10-145
$^{13}C_{12}$-2,2',3,3',5,5',6-HpCB	178	117	10-145

Sample ID: **Ongoing Precision and Recovery (OPR)**

		Ceres ID:	0-3442-OPR	**Date Received:**	NA
Project:	A5C0993	**QC Batch #:**	3442	**Date Extracted:**	14-Mar-25
Matrix:	Aqueous	**Sample Size:**	1.000 L	**Analyzed Date:**	15-Mar-25

Analyte	Congener #	Units	Conc. Found	Limits
2-MoCB	1	ng/mL	32.6	30-67.5
4-MoCB	3	ng/mL	32.3	30-67.5
2,2'-/2,6-DiCB	4/10	ng/mL	77.5	60-135
4,4'-DiCB	15	ng/mL	37.8	30-67.5
2,2',6-TrCB	19	ng/mL	38.8	30-67.5
3,4,4'-TrCB	37	ng/mL	37.1	30-67.5
2,2',6,6'-TeCB	54	ng/mL	55.6	30-67.5
3,4,4',5-TeCB	81	ng/mL	39.0	30-67.5
3,3',4,4'-TeCB	77	ng/mL	43.7	30-67.5
2,2',4,6,6'-PeCB	104	ng/mL	39.6	30-67.5
2,3',4,4',5'-PeCB	123	ng/mL	39.4	30-67.5
2,3,3',4,5-/2,3',4,4',5-PeCB	106/118	ng/mL	80.4	60-135
2,3,4,4',5-PeCB	114	ng/mL	42.1	30-67.5
2,3,3',4,4'-PeCB	105	ng/mL	43.0	30-67.5
3,3',4,4',5-PeCB	126	ng/mL	42.4	30-67.5
2,2',4,4',6,6'-HxCB	155	ng/mL	42.2	30-67.5
2,3',4,4',5,5'-HxCB	167	ng/mL	38.1	30-67.5
2,3,3',4,4',5-HxCB	156	ng/mL	37.5	30-67.5
2,3,3',4,4',5'-HxCB	157	ng/mL	39.0	30-67.5
3,3',4,4',5,5'-HxCB	169	ng/mL	370	30-67.5
2,2',3,4',5,6,6'-HpCB	188	ng/mL	38.5	30-67.5
2,3,3',4,4',5,5'-HpCB	189	ng/mL	37.1	30-67.5
2,2',3,3',5,5',6,6'-OcCB	202	ng/mL	41.7	30-67.5
2,3,3',4,4',5,5',6-OcCB	205	ng/mL	45.8	30-67.5
2,2',3,3',4,5,5',6,6'-NoCB	208	ng/mL	43.9	30-67.5
2,2',3,3',4,4',5,5',6-NoCB	206	ng/mL	41.6	30-67.5
Decachlorobiphenyl	209	ng/mL	44.4	30-67.5

Sample ID: **Ongoing Precision and Recovery (OPR)**

		Ceres ID:	0-3442-OPR	**Date Received:**	NA
Project:	A5C0993	**QC Batch #:**	3442	**Date Extracted:**	14-Mar-25
Matrix:	Aqueous	**Sample Size:**	1.000 L	**Analyzed Date:**	15-Mar-25

Labeled Standards	**Congener #**	**Units**		**Limits**
$^{13}C_{12}$-2-MoCB	1	%	97.8	15-145
$^{13}C_{12}$-4-MoCB	3	%	86.6	15-145
$^{13}C_{12}$-2,2'-DiCB	4	%	108	15-145
$^{13}C_{12}$-4,4'-DiCB	15	%	84.2	15-145
$^{13}C_{12}$-2,2',6-TrCB	19	%	141	15-145
$^{13}C_{12}$-3,4,4'-TrCB	37	%	47.9	15-145
$^{13}C_{12}$-2,2',6,6'-TeCB	54	%	60.7	15-145
$^{13}C_{12}$-3,4,4',5-TeCB	81	%	95.8	40-145
$^{13}C_{12}$-3,3',4,4'-TeCB	77	%	96.7	40-145
$^{13}C_{12}$-2,2',4,6,6'-PeCB	104	%	99.1	40-145
$^{13}C_{12}$-2,3',4,4',5'-PeCB	123	%	104	40-145
$^{13}C_{12}$-2,3',4,4',5-PeCB	118	%	105	40-145
$^{13}C_{12}$-2,3,4,4',5-PeCB	114	%	60.3	40-145
$^{13}C_{12}$-2,3,3',4,4'-PeCB	105	%	60.7	40-145
$^{13}C_{12}$-3,3',4,4',5-PeCB	126	%	59.4	40-145
$^{13}C_{12}$-2,2',4,4',6,6'-HxCB	155	%	133	40-145
$^{13}C_{12}$-2,3',4,4',5,5'-HxCB	167	%	90.8	40-145
$^{13}C_{12}$-2,3,3',4,4',5-HxCB	156	%	92.3	40-145
$^{13}C_{12}$-2,3,3',4,4',5'-HxCB	157	%	93.4	40-145
$^{13}C_{12}$-3,3',4,4',5,5'-HxCB	169	%	99.2	40-145
$^{13}C_{12}$-2,2',3,4',5,6,6'-HpCB	188	%	118	40-145
$^{13}C_{12}$-2,3,3',4,4',5,5'-HpCB	189	%	128	40-145
$^{13}C_{12}$-2,2',3,3',5,5',6,6'-OcCB	202	%	144	40-145
$^{13}C_{12}$-2,3,3',4,4',5,5',6-OcCB	205	%	96.5	40-145
$^{13}C_{12}$-2,2',3,3',4,5,5',6,6'-NoCB	208	%	112	40-145
$^{13}C_{12}$-2,2',3,3',4,4',5,5',6-NoCB	206	%	138	40-145
$^{13}C_{12}$-Decachlorobiphenyl	209	%	140	40-145
Cleanup Standards				
$^{13}C_{12}$-2,4,4'-TrCB	28	%	50.3	15-145
$^{13}C_{12}$-2,3,3',5,5'-PeCB	111	%	114	40-145
$^{13}C_{12}$-2,2',3,3',5,5',6-HpCB	178	%	114	40-145

Sample ID: T5-GW-35

Project ID:	A5C0993	**Ceres ID:**	19234-001	**Date Received:**	3/5/2025
Matrix:	Aqueous	**QC Batch #:**	3442	**Date Extracted:**	3/14/2025
Date & Time Sampled:	3/4/2025 12:44	**Sample Size:**	1.021 L	**Analyzed Date:**	3/17/2025

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2-MoCB	1	84.4		19.6	2.08
3-MoCB	2	85.3		19.6	3.49
4-MoCB	3	80.2		19.6	3.49
2,2'-/2,6-DiCB	4/10	136		19.6	8.07
2,4-/2,5-DiCB	7/9	ND		19.6	8.07
2,3'-DiCB	6	83.2		19.6	8.07
2,3-/2,4'-DiCB	5/8	477		19.6	8.07
3,5-DiCB	14	ND		19.6	8.31
3,3'-DiCB	11	1710		19.6	8.31
3,4-/3,4'-DiCB	12/13	ND		19.6	8.31
4,4'-DiCB	15	370		19.6	8.31
2,2',6-TrCB	19	76.8		19.6	4.97
2,4,6-TrCB	30	ND		19.6	4.97
2,2',5-TrCB	18	1150		19.6	4.97
2,2',4-TrCB	17	585		19.6	4.97
2,3,6-/2,3',6-TrCB	24/27	150		19.6	4.97
2,2',3-/2,4',6-TrCB	16/32	1240		19.6	4.97
2',3,5-TrCB	34	ND		19.6	5.86
2,3,5-TrCB	23	ND		19.6	5.86
2,4,5-TrCB	29	ND		19.6	5.86
2,3',5-TrCB	26	487		19.6	5.86
2,3',4-TrCB	25	274		19.6	5.86
2,4',5-TrCB	31	3100		19.6	5.86
2,4,4'-TrCB	28	2450		19.6	5.86
2,3,3'-/2,3,4-/2',3,4-TrCB	20/21/33	2590		19.6	5.86
2,3,4'-TrCB	22	1300		19.6	5.86
3,3',5-TrCB	36	ND		19.6	5.86
3,4',5-TrCB	39	ND		19.6	5.86
3,4,5-TrCB	38	ND		19.6	5.86
3,3',4-TrCB	35	ND		19.6	5.86
3,4,4'-TrCB	37	716		19.6	5.86
2,2',6,6'-TeCB	54	ND		19.6	3.75
2,2',4,6-TeCB	50	ND		19.6	3.75
2,2',5,6'-TeCB	53	443		19.6	3.75
2,2',4,6'-TeCB	51	226		19.6	3.75
2,2',3,6-TeCB	45	ND		19.6	3.75
2,2',3,6'-TeCB	46	141		19.6	3.75
2,2',5,5'-/2,3',4,6-TeCB	52/69	3520		19.6	3.75
2,3',5',6-TeCB	73	ND		19.6	3.75
2,2',3-5-/2,2',4,5'-TeCB	43/49	2020		19.6	3.75
2,2',4,4'-TeCB	47	794		19.6	3.75
2,2',4,5-/2,4,4',6-TeCB	48/75	586		19.6	3.75
2,3,5,6-TeCB	65	ND		19.6	3.75
2,3,4,6-TeCB	62	ND		19.6	3.75

Sample ID: T5-GW-35

Project:	A5C0993	**Ceres ID:**	19234-001	**Date Received:**	5-Mar-25
Matrix:	Aqueous	**QC Batch #:**	3442	**Date Extracted:**	14-Mar-25
Date & Time Sampled:	3/4/2025 12:44	**Sample Size:**	1.021 L	**Analyzed Date:**	17-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2,2',3,5'-TeCB	44	2620		19.6	3.75
2,2',3,4'-/2,3,3',6-TeCB	42/59	655		19.6	3.75
2,2',3,4-/2,3,4',6-/2,3',4',6-/2,3',5,5'-TeCB	41/64/71/72	2070		19.6	3.75
2,3',4,5'-TeCB	68	ND		19.6	3.75
2,2',3,3'-TeCB	40	498		19.6	3.75
2,3,3',5-TeCB	57	ND		19.6	3.75
2,3',4,5-TeCB	67	ND		19.6	3.75
2,3,3',5'-TeCB	58	65.4		19.6	3.75
2,3,4',5-TeCB	63	93.4		19.6	3.75
2,4,4',5-TeCB	74	1070		19.6	3.75
2,3,4,5-/2,3',4',5-TeCB	61/70	3270		19.6	3.75
2,3',4,4'-/2',3,4,5-TeCB	66/76	1970		19.6	3.75
3,3',5,5'-TeCB	80	ND		19.6	3.75
2,3,3',4-TeCB	55	ND		19.6	3.75
2,3,3',4'-/2,3,4,4'-TeCB	56/60	1310		19.6	3.59
3,3',4,5'-TeCB	79	ND		19.6	3.59
3,3',4,5-TeCB	78	ND		19.6	3.59
3,4,4',5-TeCB	81	72.7		19.6	3.59
3,3',4,4'-TeCB	77	137		19.6	5.22
2,2',4,6,6'-PeCB	104	ND		19.6	4.75
2,2',3,6,6'-PeCB	96	ND		19.6	4.75
2,2',4,5'6-PeCB	103	ND		19.6	4.75
2,2',4,4',6-PeCB	100	ND		19.6	4.75
2,2',3,5,6'-PeCB	94	ND		19.6	4.75
2,2',3,5,6-/2,2',3,5',6-/2,2',3',4,6-/2,2',4,5,6'-PeCB	93/95/98/102	5030		19.6	4.75
2,2',3,4,6-PeCB	88/91	ND		19.6	4.75
2,3',4,5',6-PeCB	121	467		19.6	4.75
2,2',3,3',6-/2,2',3,5,5'-PeCB	84/92	8370		19.6	3.46
2,2',3,4,6'-PeCB	89	ND		19.6	3.46
2,2',3,4',5-/2,2',4,5,5'-PeCB	90/101	20700		19.6	3.46
2,3,3',5',6-PeCB	113	ND		19.6	3.46
2,2',4,4',5-PeCB	99	7250		19.6	3.46
2,2',3,3',5-PeCB	83	ND		19.6	3.46
2,3,3',5,6-/2,3',4,4',6-PeCB	112/119	760		19.6	3.46
2,3,3',4,6-PeCB	109	3700		19.6	3.46
2,2',3',4,5-PeCB	97	ND		19.6	3.46
2,2',3,4,5-PeCB	86	ND		19.6	3.46
2,2',3,4,5'-/2,3,4',5,6-/2',3,4,5,6'-PeCB	87/117/125	6150		19.6	3.46
2,3,3',5,5'-/2,3,4,4',6-PeCB	111/115	ND		19.6	3.46
2,2',3,4,4'-/2,3,4,5,6-PeCB	85/116	1740		19.6	3.46
2,3',4,5,5'-PeCB	120	ND		19.6	3.46
2-3,3',4',6-PeCB	110	22100		19.6	3.46

Sample ID: T5-GW-35

Project:	A5C0993	**Ceres ID:**	19234-001	**Date Received:**	5-Mar-25
Matrix:	Aqueous	**QC Batch #:**	3442	**Date Extracted:**	14-Mar-25
Date & Time Sampled:	3/4/2025 12:44	**Sample Size:**	1.021 L	**Analyzed Date:**	17-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2,2',3,3',4-PeCB	82	180		19.6	3.46
2',3,4,5,5'-PeCB	124	ND		19.6	3.46
2,3,3',4',5-/2,3,3',4,5'-PeCB	107/108	ND		19.6	3.46
2,3',4,4',5'-PeCB	123	930		19.6	3.46
2,3,3',4,5-/2,3',4,4',5-PeCB	106/118	3780		19.6	5.58
2,3,4,4',5-PeCB	114	ND		19.6	3.25
2',3,3',4,5-PeCB	122	ND		19.6	3.25
2,3,3',4,4'-PeCB	105	1980		19.6	4.87
3,3',4,5,5'-PeCB	127	ND		19.6	4.87
3,3',4,4',5-PeCB	126	ND		19.6	5.73
2,2',4,4',6,6'-HxCB	155	ND		19.6	4.86
2,2',3,4',6,6'-HxCB	150	ND		19.6	4.86
2,2',3,5,6,6'-HxCB	152	ND		19.6	4.86
2,2',3,4,6,6'-HxCB	145	ND		19.6	4.86
2,2',3,3',6,6'-HxCB	136	701		19.6	4.86
2,2',3,4',5,6'-HxCB	148	ND		19.6	4.86
2,2',4,4',5',6-HxCB	154	ND		19.6	4.86
2,2',3,5,5',6-HxCB	151	1110		19.6	4.86
2,2',3,3',5,6'-HxCB	135	621		19.6	4.86
2,2',3,4,5',6-HxCB	144	267		19.6	4.86
2,2',3,4',5,6-HxCB	147	ND		19.6	4.86
2,2',3,4,4',6-/2,2',3,4',5',6-HxCB	139/149	3240		19.6	4.86
2,2',3,4,4',6'-HxCB	140	ND		19.6	4.86
2,2',3,3',5,6-/2,2',3,4,5,6'-HxCB	134/143	ND		19.6	5.19
2,2',3,3',4,6-/2,2',3,4,5,6-HxCB	131/142	ND		19.6	5.19
2,2',3,3',5,5'-HxCB	133	ND		19.6	5.19
2,2',3,3',4,6'-/2,2',3,4',5,5'-HxCB	132/146	2210		19.6	5.19
2,3,3',4,5',6-/2,3,3',5,5',6-HxCB	161/165	2850		19.6	5.19
2,2',4,4',5,5'-HxCB	153	4510		19.6	5.19
2,3',4,4',5',6-HxCB	168	ND		19.6	5.19
2,2',3,4,5,5'-HxCB	141	ND		19.6	5.19
2,2',3,4,4',5-HxCB	137	ND		19.6	5.19
2,2',3,3',4,5'-HxCB	130	ND		19.6	5.19
2,2',3,4,4',5-/2,3,3',4',5,6-/2,3,3',4',5',6-HxCB	138/163/164	7520		19.6	5.19
2,3,3',4,4',6-/2,3,3',4,5,6-HxCB	158/160	ND		19.6	5.19
2,2',3,3',4,5-HxCB	129	ND		19.6	5.19
2,3,4,4',5,6-HxCB	166	ND		19.6	5.19
2,3,3',4,5,5'-HxCB	159	ND		19.6	5.19
2,2',3,3',4,4'-/2,3,3',4',5,5'-HxCB	128/162	945		19.6	5.19
2,3',4,4',5,5'-HxCB	167	177		19.6	5.19
2,3,3',4,4',5-HxCB	156	706		19.6	4.13
2,3,3',4,4',5'-HxCB	157	128		19.6	6.07
3,3',4,4',5,5'-HxCB	169	ND		19.6	5.20

Sample ID: T5-GW-35

Project:	A5C0993	**Ceres ID:**	19234-001	**Date Received:**	5-Mar-25
Matrix:	Aqueous	**QC Batch #:**	3442	**Date Extracted:**	14-Mar-25
Date & Time Sampled:	3/4/2025 12:44	**Sample Size:**	1.021 L	**Analyzed Date:**	17-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2,2',3,4',5,6,6'-HpCB	188	ND		19.6	5.69
2,2',3,4,4',6,6'-HpCB	184	ND		19.6	5.69
2,2',3,3',5,6,6'-HpCB	179	810		19.6	5.69
2,2',3,3',4,6,6'-HpCB	176	ND		19.6	5.69
2,2',3,4,5,6,6'-HpCB	186	ND		19.6	5.69
2,2',3,3',5,5',6-HpCB	178	ND		19.6	5.69
2,2',3,3',4,5',6-HpCB	175	ND		19.6	5.69
2,2',3,4,4',5,6'-/2,2',3,4',5,5',6-HpCB	182/187	2160		19.6	5.69
2,2',3,4,4',5',6-HpCB	183	704		19.6	5.69
2,2',3,4,5,5',6-HpCB	185	ND		19.6	3.69
2,2',3,3',4,5,6'-HpCB	174	ND		19.6	3.69
2,2',3,4,4',5,6-HpCB	181	994		19.6	3.69
2,2',3,3',4',5,6-HpCB	177	702		19.6	3.69
2,2',3,3',4,4',6-HpCB	171	300		19.6	3.69
2,2',3,3',4,5,6-HpCB	173	ND		19.6	3.69
2,2',3,3',4,5,5'-HpCB	172	ND		19.6	3.69
2,3,3',4,5,5',6-HpCB	192	130		19.6	3.69
2,2',3,4,4',5,5'-HpCB	180	3080		19.6	3.69
2,3,3',4',5,5',6-HpCB	193	36.1		19.6	3.69
2,3,3',4,4',5',6-HpCB	191	ND		19.6	3.69
2,2',3,3',4,4',5-HpCB	170	892		19.6	3.69
2,3,3',4,4',5,6-HpCB	190	160		19.6	3.69
2,3,3',4,4',5,5'-HpCB	189	ND		19.6	3.69
2,2',3,3',5,5',6,6'-OcCB	202	517		19.6	4.31
2,2',3,3',4,5',6,6'-OcCB	201	319		19.6	4.31
2,2',3,4,4',5,6,6'-OcCB	204	ND		19.6	4.31
2,2',3,3',4,4',6,6'-OcCB	197	ND		19.6	4.31
2,2',3,3',4,5,6,6'-OcCB	200	200		19.6	4.31
2,2',3,3',4,5,5',6-OcCB	198	ND		19.6	4.31
2,2',3,3',4,5,5',6'-OcCB	199	1910		19.6	4.31
2,2',3,3',4,4',5,6'-/2,2',3,4,4',5,5',6-OcCB	196/203	1740		19.6	4.31
2,2',3,3',4,4',5,6-OcCB	195	658		19.6	7.16
2,2',3,3',4,4',5,5'-OcCB	194	1650		19.6	7.16
2,3,3',4,4',5,5',6-OcCB	205	ND		19.6	7.16
2,2',3,3',4,5,5',6,6'-NoCB	208	469		19.6	3.75
2,2',3,3',4,4',5,6,6'-NoCB	207	205		19.6	3.75
2,2',3,3',4,4',5,5',6-NoCB	206	1550		19.6	5.61
Decachlorobiphenyl	209	1030		19.6	4.14

Sample ID: T5-GW-35

Project:	A5C0993	**Ceres ID:**	19234-001	**Date Received:**	5-Mar-25
Matrix:	Aqueous	**QC Batch #:**	3442	**Date Extracted:**	14-Mar-25
Date & Time Sampled:	3/4/2025 12:44	**Sample Size:**	1.021 L	**Analyzed Date:**	17-Mar-25

Totals	**Chlorination Level**	**Conc. (pg/L)**	**Qual.**	**RL**
Monochlorobiphenyl	MoCB	250		19.6
Dichlorobiphenyl	DiCB	2776		19.6
Trichlorobiphenyl	TrCB	14119		19.6
Tetrachlorobiphenyl	TeCB	21562		19.6
Pentachlorobiphenyl	PeCB	83137		19.6
Hexachlorobiphenyl	HxCB	24985		19.6
Heptachlorobiphenyl	HpCB	9968.1		19.6
Octachlorobiphenyl	OcCB	6994		19.6
Nonachlorobiphenyl	NoCB	2224		19.6
Decachlorobiphenyl	DeCB	1030		19.6

Labeled Standards	**Congener #**	**% Rec.**	**Limits**
$^{13}C_{12}$-2-MoCB	1	86.7	5-145
$^{13}C_{12}$-4-MoCB	3	77.9	5-145
$^{13}C_{12}$-2,2'-DiCB	4	68.1	5-145
$^{13}C_{12}$-4,4'-DiCB	15	46.5	5-145
$^{13}C_{12}$-2,2',6-TrCB	19	82.3	5-145
$^{13}C_{12}$-3,4,4'-TrCB	37	57.2	5-145
$^{13}C_{12}$-2,2',6,6'-TeCB	54	70.1	5-145
$^{13}C_{12}$-3,4,4',5-TeCB	81	78.8	10-145
$^{13}C_{12}$-3,3',4,4'-TeCB	77	79.5	10-145
$^{13}C_{12}$-2,2',4,6,6'-PeCB	104	74.0	10-145
$^{13}C_{12}$-2,3',4,4',5'-PeCB	123	22.6	10-145
$^{13}C_{12}$-2,3',4,4',5-PeCB	118	50.2	10-145
$^{13}C_{12}$-2,3,4,4',5-PeCB	114	63.2	10-145
$^{13}C_{12}$-2,3,3',4,4'-PeCB	105	62.7	10-145
$^{13}C_{12}$-3,3',4,4',5-PeCB	126	55.7	10-145
$^{13}C_{12}$-2,2',4,4',6,6'-HxCB	155	109	10-145
$^{13}C_{12}$-2,3',4,4',5,5'-HxCB	167	63.5	10-145
$^{13}C_{12}$-2,3,3',4,4',5-HxCB	156	53.5	10-145
$^{13}C_{12}$-2,3,3',4,4',5'-HxCB	157	59.3	10-145
$^{13}C_{12}$-3,3',4,4',5,5'-HxCB	169	45.3	10-145
$^{13}C_{12}$-2,2',3,4',5,6,6'-HpCB	188	99.4	10-145
$^{13}C_{12}$-2,3,3',4,4',5,5'-HpCB	189	91.6	10-145
$^{13}C_{12}$-2,2',3,3',5,5',6,6'-OcCB	202	84.1	10-145
$^{13}C_{12}$-2,3,3',4,4',5,5',6-OcCB	205	73.2	10-145
$^{13}C_{12}$-2,2',3,3',4,5,5',6,6'-NoCB	208	88.7	10-145
$^{13}C_{12}$-2,2',3,3',4,4',5,5',6-NoCB	206	85.8	10-145
$^{13}C_{12}$-Decachlorobiphenyl	209	92.6	10-145
Cleanup Standards			
$^{13}C_{12}$-2,4,4'-TrCB	28	88.5	5-145
$^{13}C_{12}$-2,3,3',5,5'-PeCB	111	122	10-145
$^{13}C_{12}$-2,2',3,3',5,5',6-HpCB	178	136	10-145

Sample ID: T5-GW-46

Project ID:	A5C0993	**Ceres ID:**	19234-002	**Date Received:**	3/6/2025
Matrix:	Aqueous	**QC Batch #:**	3442	**Date Extracted:**	3/14/2025
Date & Time Sampled:	3/4/2025 15:44	**Sample Size:**	1.022 L	**Analyzed Date:**	3/15/2025

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2-MoCB	1	ND		19.6	2.08
3-MoCB	2	ND		19.6	3.49
4-MoCB	3	ND		19.6	3.49
2,2'-/2,6-DiCB	4/10	ND		19.6	8.07
2,4-/2,5-DiCB	7/9	ND		19.6	8.07
2,3'-DiCB	6	ND		19.6	8.07
2,3-/2,4'-DiCB	5/8	146		19.6	8.07
3,5-DiCB	14	ND		19.6	8.31
3,3'-DiCB	11	762		19.6	8.31
3,4-/3,4'-DiCB	12/13	ND		19.6	8.31
4,4'-DiCB	15	146		19.6	8.31
2,2',6-TrCB	19	ND		19.6	4.97
2,4,6-TrCB	30	ND		19.6	4.97
2,2',5-TrCB	18	897		19.6	4.97
2,2',4-TrCB	17	411		19.6	4.97
2,3,6-/2,3',6-TrCB	24/27	85.0		19.6	4.97
2,2',3-/2,4',6-TrCB	16/32	720		19.6	4.97
2',3,5-TrCB	34	ND		19.6	5.86
2,3,5-TrCB	23	ND		19.6	5.86
2,4,5-TrCB	29	ND		19.6	5.86
2,3',5-TrCB	26	290		19.6	5.86
2,3',4-TrCB	25	163		19.6	5.86
2,4',5-TrCB	31	1580		19.6	5.86
2,4,4'-TrCB	28	1850		19.6	5.86
2,3,3'-/2,3,4-/2',3,4-TrCB	20/21/33	1350		19.6	5.86
2,3,4'-TrCB	22	743		19.6	5.86
3,3',5-TrCB	36	ND		19.6	5.86
3,4',5-TrCB	39	ND		19.6	5.86
3,4,5-TrCB	38	69.3		19.6	5.86
3,3',4-TrCB	35	ND		19.6	5.86
3,4,4'-TrCB	37	298		19.6	5.86
2,2',6,6'-TeCB	54	ND		19.6	3.75
2,2',4,6-TeCB	50	ND		19.6	3.75
2,2',5,6'-TeCB	53	341		19.6	3.75
2,2',4,6'-TeCB	51	156		19.6	3.75
2,2',3,6-TeCB	45	270		19.6	3.75
2,2',3,6'-TeCB	46	115		19.6	3.75
2,2',5,5'-/2,3',4,6-TeCB	52/69	1550		19.6	3.75
2,3',5',6-TeCB	73	ND		19.6	3.75
2,2',3-5-/2,2',4,5'-TeCB	43/49	1390		19.6	3.75
2,2',4,4'-TeCB	47	645		19.6	3.75
2,2',4,5-/2,4,4',6-TeCB	48/75	354		19.6	3.75
2,3,5,6-TeCB	65	ND		19.6	3.75
2,3,4,6-TeCB	62	ND		19.6	3.75

Sample ID: T5-GW-46

Project:	A5C0993	**Ceres ID:**	19234-002	**Date Received:**	6-Mar-25
Matrix:	Aqueous	**QC Batch #:**	3442	**Date Extracted:**	14-Mar-25
Date & Time Sampled:	3/4/2025 15:44	**Sample Size:**	1.022 L	**Analyzed Date:**	15-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2,2',3,5'-TeCB	44	1310		19.6	3.75
2,2',3,4'-/2,3,3',6-TeCB	42/59	489		19.6	3.75
2,2',3,4-/2,3,4',6-/2,3',4',6-/2,3',5,5'-TeCB	41/64/71/72	1190		19.6	3.75
2,3',4,5'-TeCB	68	ND		19.6	3.75
2,2',3,3'-TeCB	40	195		19.6	3.75
2,3,3',5-TeCB	57	ND		19.6	3.75
2,3',4,5-TeCB	67	ND		19.6	3.75
2,3,3',5'-TeCB	58	64.4		19.6	3.75
2,3,4',5-TeCB	63	51.8		19.6	3.75
2,4,4',5-TeCB	74	534		19.6	3.75
2,3,4,5-/2,3',4',5-TeCB	61/70	1180		19.6	3.75
2,3',4,4'-/2',3,4,5-TeCB	66/76	1080		19.6	3.75
3,3',5,5'-TeCB	80	836		19.6	3.75
2,3,3',4-TeCB	55	ND		19.6	3.75
2,3,3',4'-/2,3,4,4'-TeCB	56/60	759		19.6	3.59
3,3',4,5'-TeCB	79	ND		19.6	3.59
3,3',4,5-TeCB	78	ND		19.6	3.59
3,4,4',5-TeCB	81	ND		19.6	3.59
3,3',4,4'-TeCB	77	38.6		19.6	5.22
2,2',4,6,6'-PeCB	104	ND		19.6	4.75
2,2',3,6,6'-PeCB	96	43.7		19.6	4.75
2,2',4,5'6-PeCB	103	41.4		19.6	4.75
2,2',4,4',6-PeCB	100	95.7		19.6	4.75
2,2',3,5,6'-PeCB	94	ND		19.6	4.75
2,2',3,5,6-/2,2',3,5',6-/2,2',3',4,6-/2,2',4,5,6'-PeCB	93/95/98/102	884		19.6	4.75
2,2',3,4,6-PeCB	88/91	ND		19.6	4.75
2,3',4,5',6-PeCB	121	109		19.6	4.75
2,2',3,3',6-/2,2',3,5,5'-PeCB	84/92	522		19.6	3.46
2,2',3,4,6'-PeCB	89	ND		19.6	3.46
2,2',3,4',5-/2,2',4,5,5'-PeCB	90/101	1200		19.6	3.46
2,3,3',5',6-PeCB	113	ND		19.6	3.46
2,2',4,4',5-PeCB	99	485		19.6	3.46
2,2',3,3',5-PeCB	83	49.9		19.6	3.46
2,3,3',5,6-/2,3',4,4',6-PeCB	112/119	67.1		19.6	3.46
2,3,3',4,6-PeCB	109	275		19.6	3.46
2,2',3',4,5-PeCB	97	ND		19.6	3.46
2,2',3,4,5-PeCB	86	ND		19.6	3.46
2,2',3,4,5'-/2,3,4',5,6-/2',3,4,5,6'-PeCB	87/117/125	373		19.6	3.46
2,3,3',5,5'-/2,3,4,4',6-PeCB	111/115	ND		19.6	3.46
2,2',3,4,4'-/2,3,4,5,6-PeCB	85/116	164		19.6	3.46
2,3',4,5,5'-PeCB	120	ND		19.6	3.46
2-3,3',4',6-PeCB	110	1090		19.6	3.46

Sample ID: T5-GW-46

Project:	A5C0993	**Ceres ID:**	19234-002	**Date Received:**	6-Mar-25
Matrix:	Aqueous	**QC Batch #:**	3442	**Date Extracted:**	14-Mar-25
Date & Time Sampled:	3/4/2025 15:44	**Sample Size:**	1.022 L	**Analyzed Date:**	15-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2,2',3,3',4-PeCB	82	168		19.6	3.46
2',3,4,5,5'-PeCB	124	ND		19.6	3.46
2,3,3',4',5-/2,3,3',4,5'-PeCB	107/108	46.1		19.6	3.46
2,3',4,4',5'-PeCB	123	ND		19.6	3.46
2,3,3',4,5-/2,3',4,4',5-PeCB	106/118	654		19.6	5.58
2,3,4,4',5-PeCB	114	ND		19.6	3.25
2',3,3',4,5-PeCB	122	ND		19.6	3.25
2,3,3',4,4'-PeCB	105	311		19.6	4.87
3,3',4,5,5'-PeCB	127	ND		19.6	4.87
3,3',4,4',5-PeCB	126	ND		19.6	5.73
2,2',4,4',6,6'-HxCB	155	ND		19.6	4.86
2,2',3,4',6,6'-HxCB	150	ND		19.6	4.86
2,2',3,5,6,6'-HxCB	152	ND		19.6	4.86
2,2',3,4,6,6'-HxCB	145	ND		19.6	4.86
2,2',3,3',6,6'-HxCB	136	199		19.6	4.86
2,2',3,4',5,6'-HxCB	148	ND		19.6	4.86
2,2',4,4',5',6-HxCB	154	ND		19.6	4.86
2,2',3,5,5',6-HxCB	151	302		19.6	4.86
2,2',3,3',5,6'-HxCB	135	168		19.6	4.86
2,2',3,4,5',6-HxCB	144	43.7		19.6	4.86
2,2',3,4',5,6-HxCB	147	ND		19.6	4.86
2,2',3,4,4',6-/2,2',3,4',5',6-HxCB	139/149	827		19.6	4.86
2,2',3,4,4',6'-HxCB	140	ND		19.6	4.86
2,2',3,3',5,6-/2,2',3,4,5,6'-HxCB	134/143	66.0		19.6	5.19
2,2',3,3',4,6-/2,2',3,4,5,6-HxCB	131/142	67.8		19.6	5.19
2,2',3,3',5,5'-HxCB	133	ND		19.6	5.19
2,2',3,3',4,6'-/2,2',3,4',5,5'-HxCB	132/146	326		19.6	5.19
2,3,3',4,5',6-/2,3,3',5,5',6-HxCB	161/165	422		19.6	5.19
2,2',4,4',5,5'-HxCB	153	1680		19.6	5.19
2,3',4,4',5',6-HxCB	168	ND		19.6	5.19
2,2',3,4,5,5'-HxCB	141	346		19.6	5.19
2,2',3,4,4',5-HxCB	137	69.0		19.6	5.19
2,2',3,3',4,5'-HxCB	130	96.0		19.6	5.19
2,2',3,4,4',5-/2,3,3',4',5,6-/2,3,3',4',5',6-HxCB	138/163/164	1430		19.6	5.19
2,3,3',4,4',6-/2,3,3',4,5,6-HxCB	158/160	149		19.6	5.19
2,2',3,3',4,5-HxCB	129	ND		19.6	5.19
2,3,4,4',5,6-HxCB	166	ND		19.6	5.19
2,3,3',4,5,5'-HxCB	159	ND		19.6	5.19
2,2',3,3',4,4'-/2,3,3',4',5,5'-HxCB	128/162	104		19.6	5.19
2,3',4,4',5,5'-HxCB	167	41.6		19.6	5.19
2,3,3',4,4',5-HxCB	156	71.7		19.6	4.13
2,3,3',4,4',5'-HxCB	157	ND		19.6	6.07
3,3',4,4',5,5'-HxCB	169	ND		19.6	5.20

Sample ID: T5-GW-46

Project:	A5C0993	**Ceres ID:**	19234-002	**Date Received:**	6-Mar-25
Matrix:	Aqueous	**QC Batch #:**	3442	**Date Extracted:**	14-Mar-25
Date & Time Sampled:	3/4/2025 15:44	**Sample Size:**	1.022 L	**Analyzed Date:**	15-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2,2',3,4',5,6,6'-HpCB	188	ND		19.6	5.69
2,2',3,4,4',6,6'-HpCB	184	ND		19.6	5.69
2,2',3,3',5,6,6'-HpCB	179	225		19.6	5.69
2,2',3,3',4,6,6'-HpCB	176	69.2		19.6	5.69
2,2',3,4,5,6,6'-HpCB	186	ND		19.6	5.69
2,2',3,3',5,5',6-HpCB	178	98.7		19.6	5.69
2,2',3,3',4,5',6-HpCB	175	ND		19.6	5.69
2,2',3,4,4',5,6'-/2,2',3,4',5,5',6-HpCB	182/187	274		19.6	5.69
2,2',3,4,4',5',6-HpCB	183	127		19.6	5.69
2,2',3,4,5,5',6-HpCB	185	173	*	19.6	3.69
2,2',3,3',4,5,6'-HpCB	174	557	*	19.6	3.69
2,2',3,4,4',5,6-HpCB	181	ND	*	19.6	3.69
2,2',3,3',4',5,6-HpCB	177	291	*	19.6	3.69
2,2',3,3',4,4',6-HpCB	171	143	*	19.6	3.69
2,2',3,3',4,5,6-HpCB	173	ND	*	19.6	3.69
2,2',3,3',4,5,5'-HpCB	172	94.6	*	19.6	3.69
2,3,3',4,5,5',6-HpCB	192	ND	*	19.6	3.69
2,2',3,4,4',5,5'-HpCB	180	1030	*	19.6	3.69
2,3,3',4',5,5',6-HpCB	193	ND	*	19.6	3.69
2,3,3',4,4',5',6-HpCB	191	ND	*	19.6	3.69
2,2',3,3',4,4',5-HpCB	170	336	*	19.6	3.69
2,3,3',4,4',5,6-HpCB	190	ND	*	19.6	3.69
2,3,3',4,4',5,5'-HpCB	189	ND	*	19.6	3.69
2,2',3,3',5,5',6,6'-OcCB	202	162		19.6	4.31
2,2',3,3',4,5',6,6'-OcCB	201	ND		19.6	4.31
2,2',3,4,4',5,6,6'-OcCB	204	ND		19.6	4.31
2,2',3,3',4,4',6,6'-OcCB	197	ND		19.6	4.31
2,2',3,3',4,5,6,6'-OcCB	200	ND		19.6	4.31
2,2',3,3',4,5,5',6-OcCB	198	ND		19.6	4.31
2,2',3,3',4,5,5',6'-OcCB	199	236		19.6	4.31
2,2',3,3',4,4',5,6'-/2,2',3,4,4',5,5',6-OcCB	196/203	252		19.6	4.31
2,2',3,3',4,4',5,6-OcCB	195	129		19.6	7.16
2,2',3,3',4,4',5,5'-OcCB	194	372		19.6	7.16
2,3,3',4,4',5,5',6-OcCB	205	ND		19.6	7.16
2,2',3,3',4,5,5',6,6'-NoCB	208	185		19.6	3.75
2,2',3,3',4,4',5,6,6'-NoCB	207	ND		19.6	3.75
2,2',3,3',4,4',5,5',6-NoCB	206	483		19.6	5.61
Decachlorobiphenyl	209	541		19.6	4.14

Sample ID: T5-GW-46

Project:	A5C0993	**Ceres ID:**	19234-002	**Date Received:**	6-Mar-25
Matrix:	Aqueous	**QC Batch #:**	3442	**Date Extracted:**	14-Mar-25
Date & Time Sampled:	3/4/2025 15:44	**Sample Size:**	1.022 L	**Analyzed Date:**	15-Mar-25

Totals	**Chlorination Level**	**Conc. (pg/L)**	**Qual.**	**RL**
Monochlorobiphenyl	MoCB	0		19.6
Dichlorobiphenyl	DiCB	1054		19.6
Trichlorobiphenyl	TrCB	8456		19.6
Tetrachlorobiphenyl	TeCB	12549		19.6
Pentachlorobiphenyl	PeCB	6579		19.6
Hexachlorobiphenyl	HxCB	6409		19.6
Heptachlorobiphenyl	HpCB	3418.5		19.6
Octachlorobiphenyl	OcCB	1151		19.6
Nonachlorobiphenyl	NoCB	668		19.6
Decachlorobiphenyl	DeCB	541		19.6

Labeled Standards	**Congener #**	**% Rec.**		**Limits**
$^{13}C_{12}$-2-MoCB	1	84.3		5-145
$^{13}C_{12}$-4-MoCB	3	70.9		5-145
$^{13}C_{12}$-2,2'-DiCB	4	75.2		5-145
$^{13}C_{12}$-4,4'-DiCB	15	67.5		5-145
$^{13}C_{12}$-2,2',6-TrCB	19	92.9		5-145
$^{13}C_{12}$-3,4,4'-TrCB	37	27.7		5-145
$^{13}C_{12}$-2,2',6,6'-TeCB	54	72.2		5-145
$^{13}C_{12}$-3,4,4',5-TeCB	81	66.5		10-145
$^{13}C_{12}$-3,3',4,4'-TeCB	77	69.2		10-145
$^{13}C_{12}$-2,2',4,6,6'-PeCB	104	72.2		10-145
$^{13}C_{12}$-2,3',4,4',5'-PeCB	123	69.6		10-145
$^{13}C_{12}$-2,3',4,4',5-PeCB	118	63.8		10-145
$^{13}C_{12}$-2,3,4,4',5-PeCB	114	62.9		10-145
$^{13}C_{12}$-2,3,3',4,4'-PeCB	105	66.8		10-145
$^{13}C_{12}$-3,3',4,4',5-PeCB	126	59.1		10-145
$^{13}C_{12}$-2,2',4,4',6,6'-HxCB	155	93.9		10-145
$^{13}C_{12}$-2,3',4,4',5,5'-HxCB	167	53.2		10-145
$^{13}C_{12}$-2,3,3',4,4',5-HxCB	156	39.8		10-145
$^{13}C_{12}$-2,3,3',4,4',5'-HxCB	157	37.2		10-145
$^{13}C_{12}$-3,3',4,4',5,5'-HxCB	169	32.1		10-145
$^{13}C_{12}$-2,2',3,4',5,6,6'-HpCB	188	86.2		10-145
$^{13}C_{12}$-2,3,3',4,4',5,5'-HpCB	189	56.1	*	10-145
$^{13}C_{12}$-2,2',3,3',5,5',6,6'-OcCB	202	53.7		10-145
$^{13}C_{12}$-2,3,3',4,4',5,5',6-OcCB	205	67.5		10-145
$^{13}C_{12}$-2,2',3,3',4,5,5',6,6'-NoCB	208	72.3		10-145
$^{13}C_{12}$-2,2',3,3',4,4',5,5',6-NoCB	206	85.3		10-145
$^{13}C_{12}$-Decachlorobiphenyl	209	95.2		10-145
Cleanup Standards				
$^{13}C_{12}$-2,4,4'-TrCB	28	54.6		5-145
$^{13}C_{12}$-2,3,3',5,5'-PeCB	111	114		10-145
$^{13}C_{12}$-2,2',3,3',5,5',6-HpCB	178	102		10-145

Section VI: Sample Tracking

~~$172.25 #17 C18 065 01 0736 674C~~

SUBCONTRACT ORDER

Apex Laboratories

A5C0993

AKK 3/5/25 AKK

SENDING LABORATORY:

Apex Laboratories
6700 S.W. Sandburg Street
Tigard, OR 97223
Phone: (503) 718-2323
Fax: (503) 336-0745
Project Manager: Darrell Auvil

RECEIVING LABORATORY:

Ceres Analytical Laboratory, Inc
4919 Windplay Drive, Suite 1
El Dorado Hills, CA 95762
Phone :(916) 932-5011
Fax: -9

Sample Name: T5-GW-42 **Water** **Sampled: 03/04/25 12:44** (A5C0993-01)

Analysis	Due	Expires	Comments
1668C PCB Congeners (SUB)	03/17/25 17:00	03/04/26 12:44	
Containers Supplied:			
(J)1 L Amber Glass - Non Preserved			

Sample Name: T5-GW-56 **Water** **Sampled: 03/04/25 15:44** (A5C0993-02)

Analysis	Due	Expires	Comments
1668C PCB Congeners (SUB)	03/17/25 17:00	03/04/26 15:44	
Containers Supplied:			
(J)1 L Amber Glass - Non Preserved			

* Standard TAT *

ZA 1440	3/5/25	UPS (Shipper)	
Released By	Date	Received By	Date
UPS (Shipper)			3/6/25 0915
Released By	Date	Received By	Date

Sample Receipt Check List Logged by: HH (initials)

Ceres ID: 19234	Date/Time: 3/6/25 09:15
Client Project ID: A5C0993	Received Temp: 2.4 °C Acceptable: (Y) / N
Chain of Custody Relinquished by signed?	(Y) / N
Chain of Custody Received by signed?	(Y) / N
Custody Seals? Present?	Y / N
Intact?	Y / N
NA:	(NA)
Unlabeled / Illegible Samples	Y / (N)
Proper Containers:	(Y) / N
Preservation Acceptable (Chemical or ~~Temperature~~)?	(Y) / N
Drinking Water, Sodium Thiosulfate present?	Y / (N) / NA
Residual Cl?	Y / (N) / NA
Aqueous sample pH: 7.7	NA
List COC discrepancies: HH 3/6/25	
List Damaged Samples: HH 3/6/25	

Section VII: Qualifiers/Abbreviations

J	Concentration found below the lower quantitation limit but greater than zero.
B	Analyte present in the associated Method Blank.
E	Concentration found exceeds the Calibration range of the HRGC/HRMS.
D	This analyte concentration was calculated from a dilution.
X	The concentration found is the estimated maximum possible concentration due to chlorinated diphenyl ethers present in the sample.
H	Recovery limits exceeded. See cover letter.
*****	Results taken from dilution.
I	Interference. See cover letter.
Conc.	Concentration Found
DL	Calculated Detection Limit
ND	Non-Detect
% Rec.	Percent Recovery

April 4, 2025 Service Request No:K2502368.01

Darrell Auvil
Apex Laboratories
6700 SW Sandburg St.
Tigard, OR 97223

Laboratory Results for: A5C0993

Dear Darrell,

Enclosed are the results of the sample(s) submitted to our laboratory March 06, 2025
For your reference, these analyses have been assigned our service request number **K2502368.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3260. You may also contact me via email at Luke.Rahn@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Luke Rahn
Project Manager

REVISED
4:27 pm, Apr 03, 2025

ADDRESS 1317 S. 13th Avenue, Kelso, WA 98626
PHONE +1 360 577 7222 | FAX +1 360 636 1068
ALS Group USA, Corp.
dba ALS Environmental

Narrative Documents

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

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Client: Apex Laboratories
Project: A5C0993
Sample Matrix: Water

Service Request: K2502368
Date Received: 03/06/2025

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

Two water samples were received for analysis at ALS Environmental on 03/06/2025. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

General Chemistry:

No significant anomalies were noted with this analysis.

Approved by _____ Date 04/03/2025

SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: T5-GW-35			Lab ID: K2502368-001			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Carbon, Total Organic	16.8		0.4	2.0	mg/L	SM 5310 C

CLIENT ID: T5-GW-46			Lab ID: K2502368-002			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Carbon, Total Organic	6.0		0.4	2.5	mg/L	SM 5310 C

Sample Receipt Information

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

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Client: Apex Laboratories **Service Request:**K2502368

Project: A5C0993

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
K2502368-001	T5-GW-35	3/4/2025	1244
K2502368-002	T5-GW-46	3/4/2025	1544

L2502368

SUBCONTRACT ORDER

Apex Laboratories

A5C0993

AUC 7/15/25

SENDING LABORATORY:	RECEIVING LABORATORY:
Apex Laboratories 6700 S.W. Sandburg Street Tigard, OR 97223 Phone: (503) 718-2323 Fax: (503) 336-0745 Project Manager: Darrell Auvil	ALS Group USA - Kelso 1317 S 13th Avenue Kelso, WA 98626 Phone :(360) 577-7222 Fax: (360) 636-1068

Sample Name: T5-GW-42 **Sampled: 03/04/25 12:44** (A5C0993-01)

Analysis	Due	Expires	Comments
Total Organic Carbon - H2O (5310C) *Containers Supplied:* (E)250 mL Poly - Sulfuric (H2SO4)	03/17/25 17:00	04/01/25 12:44	

Sample Name: T5-GW-56 **Sampled: 03/04/25 15:44** (A5C0993-02)

Analysis	Due	Expires	Comments
Total Organic Carbon - H2O (5310C) *Containers Supplied:* (E)250 mL Poly - Sulfuric (H2SO4)	03/17/25 17:00	04/01/25 15:44	

Standard TAT

Released By	3/4/25 829 Date	Received By	3/4/25 829 Date
Released By	3/4/25 1225 Date	Received By	03/04/25 1225 Date

Cooler Receipt and Preservation Form

PM LR

Client Apex Service Request K25 02368

Received: 03 06 2025 Opened: 03 06 2025 By: AO Unloaded: 03 06 2025 By: AO

1. Samples were received via? *USPS* *Fed Ex* *UPS* *DHL* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) *Cooler* *Box* *Envelope* *Other* _____ *NA*
3. Were custody seals on coolers? NA Y N If yes, how many and where? _____
   If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Temp Blank	Sample Temp	IR Gun	Cooler #/COC ID / NA	Out of temp Indicate with "X"	PM Notified If out of temp	Tracking Number NA	Filed
—	3.1	IR06					

4. Was a Temperature Blank present in cooler? NA Y N If yes, notate the temperature in the appropriate column below:
   If no, take the temperature of a representative sample bottle contained within the cooler; notate in the column "Sample Temp":
5. Were samples received within the method specified temperature ranges? NA Y N
   If no, were they received on ice and same day as collected? If not, notate the cooler # below and notify the PM. NA Y N

If applicable, tissue samples were received: *Frozen* *Partially Thawed* *Thawed*

6. Packing material: *Inserts* *Baggies* *Bubble Wrap* *Gel Packs* *Wet Ice* *Dry Ice* *Sleeves* _____
7. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
8. Were samples received in good condition (unbroken) NA Y N
9. Were all sample labels complete (ie, analysis, preservation, etc.)? NA Y N
10. Did all sample labels and tags agree with custody papers? NA Y N
11. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
12. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* NA Y N
13. Were VOA vials received without headspace? *Indicate in the table below.* NA Y N
14. Was C12/Res negative? NA Y N
15. Were samples received within method specified time limit? If not, notate the error below and notify the PM. NA Y N
16. Were 100mL sterile microbiology bottles filled exactly to the 100mL mark? NA Y N Underfilled Overfilled

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count Bottle Type	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, Resolutions: _____

Q:\ENVIRONMENTAL\1 SOP & Policy Statements\SMO\CRF Update 2025-02-28.docx Updated: BJD 2/28/25

Miscellaneous Forms

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Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated value.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.
H	The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

#	The control limit criteria is not applicable.
J	The result is an estimated value.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.
Q	See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimated value over the calibration range.
J	The result is an estimated value between the MDL and the MRL.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses

Agency	Web Site	Number
Alaska DEH	http://dec.alaska.gov/eh/lab/cs/csapproval.htm	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L16-58-R4
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	http://health.hawaii.gov/	-
ISO 17025	http://www.pjlabs.com/	L16-57
Louisiana DEQ	http://www.deq.louisiana.gov/page/la-lab-accreditation	03016
Maine DHS	http://www.maine.gov/dhhs/	WA01276
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/enforcement/oqa.html	WA005
New York - DOH	https://www.wadsworth.org/regulatory/elap	12060
North Carolina DEQ	https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/EnvironmentalLabCertification/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wyoming (EPA Region 8)	https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water-	-
Kelso Laboratory Website	[illegible]	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.
Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/anlayte is offered by that state.

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Analyst Summary report

Client:	Apex Laboratories	**Service Request:**	K2502368
Project:	A5C0993/		

Sample Name:	T5-GW-35	**Date Collected:**	03/4/25
Lab Code:	K2502368-001	**Date Received:**	03/6/25
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
SM 5310 C		MSPECHT

Sample Name:	T5-GW-46	**Date Collected:**	03/4/25
Lab Code:	K2502368-002	**Date Received:**	03/6/25
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
SM 5310 C		MSPECHT

Sample Results

ALS Environmental—Kelso Laboratory
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General Chemistry

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Analytical Report

Client:	Apex Laboratories	**Service Request:**	K2502368
Project:	A5C0993	**Date Collected:**	03/04/25 12:44
Sample Matrix:	Water	**Date Received:**	03/06/25 12:25
Sample Name:	T5-GW-35	**Basis:**	NA
Lab Code:	K2502368-001		

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Carbon, Total Organic	SM 5310 C	**16.8**	mg/L	2.0	0.4	4	03/12/25 14:33	

Analytical Report

Client:	Apex Laboratories	**Service Request:**	K2502368
Project:	A5C0993	**Date Collected:**	03/04/25 15:44
Sample Matrix:	Water	**Date Received:**	03/06/25 12:25
Sample Name:	T5-GW-46	**Basis:**	NA
Lab Code:	K2502368-002		

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Carbon, Total Organic	SM 5310 C	**6.0**	mg/L	2.5	0.4	5	03/12/25 14:33	

QC Summary Forms

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

RIGHT SOLUTIONS | RIGHT PARTNER

General Chemistry

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

RIGHT SOLUTIONS | RIGHT PARTNER

Client:	Apex Laboratories	**Service Request:**	K2502368
Project:	A5C0993	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	K2502368-MB		

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Carbon, Total Organic	SM 5310 C	ND U	mg/L	0.50	0.08	1	03/12/25 14:33	

Client:	Apex Laboratories	**Service Request:**	K2502368
Project:	A5C0993	**Date Analyzed:**	03/12/25
Sample Matrix:	Water	**Date Extracted:**	NA

Lab Control Sample Summary
Carbon, Total Organic

Analysis Method:	SM 5310 C	**Units:**	mg/L
Prep Method:	None	**Basis:**	NA
		Analysis Lot:	872500

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K2502368-LCS	24.1	25.0	96	83-117

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

ANALYTICAL REPORT

AMENDED REPORT

Thursday, May 29, 2025

Steve Misner
Apex Companies, LLC
15618 SW 72nd Ave
Tigard, OR 97224

RE: A5C1035 - Willamette Cove GW SCE - 1056-17

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 A5C1035, which was received by the laboratory on 3/5/2025 at 5:19:00PM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: DAuvil@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 4.5 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

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Darrell Auvil, Client Services Manager

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

ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1035 - 05 29 25 1544**

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
T5-GW-58	**A5C1035-01**	**Water**	**03/05/25 11:18**	**03/05/25 17:19**
T5-GW-69	**A5C1035-02**	**Water**	**03/05/25 13:58**	**03/05/25 17:19**

Apex Laboratories

Darrell Auvil, Client Services Manager

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ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1035 - 05 29 25 1544**

ANALYTICAL CASE NARRATIVE

A5C1035 **Apex Laboratories**

Amended Report Revision 2: This report supersedes all previous reports.

Reporting the Detection Limits (DL)-

The final report has been amended to report PAH data by EPA 8270E, to the detection limits (DL).

Darrell Auvil
Client Services Manager
5/29/2025

Amended Report Revision 1:

Reporting the Detection Limits (DL)-

This report supersedes all previous reports.

The final report has been amended to report Chlorinated Pesticides data by EPA 8081B, to the detection limits (DL).

Darrell Auvil
Client Services Manager
5/9/2025

Apex Laboratories

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1035 - 05 29 25 1544**

ANALYTICAL SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
T5-GW-58 (A5C1035-01RE1)				**Matrix: Water**		**Batch: 25C0658**		**C-05**
2,4'-DDD	ND	0.00952	0.0190	ug/L	1	03/18/25 15:02	EPA 8081B	
2,4'-DDE	ND	0.00952	0.0190	ug/L	1	03/18/25 15:02	EPA 8081B	
2,4'-DDT	ND	0.00952	0.0190	ug/L	1	03/18/25 15:02	EPA 8081B	
4,4'-DDD	ND	0.00952	0.0190	ug/L	1	03/18/25 15:02	EPA 8081B	
4,4'-DDE	ND	0.00952	0.0190	ug/L	1	03/18/25 15:02	EPA 8081B	
4,4'-DDT	ND	0.00952	0.0190	ug/L	1	03/18/25 15:02	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr)		*Recovery:*	*56 %*	*Limits: 25-140 %*	*1*	*03/18/25 15:02*	*EPA 8081B*	
Decachlorobiphenyl (Surr)			*73 %*	*30-135 %*	*1*	*03/18/25 15:02*	*EPA 8081B*	
T5-GW-69 (A5C1035-02RE1)				**Matrix: Water**		**Batch: 25C0658**		**C-05, DCNT**
2,4'-DDD	ND	0.00971	0.0194	ug/L	1	03/18/25 15:19	EPA 8081B	
2,4'-DDE	ND	0.00971	0.0194	ug/L	1	03/18/25 15:19	EPA 8081B	
2,4'-DDT	ND	0.00971	0.0194	ug/L	1	03/18/25 15:19	EPA 8081B	
4,4'-DDD	ND	0.00971	0.0194	ug/L	1	03/18/25 15:19	EPA 8081B	
4,4'-DDE	ND	0.00971	0.0194	ug/L	1	03/18/25 15:19	EPA 8081B	
4,4'-DDT	ND	0.00971	0.0194	ug/L	1	03/18/25 15:19	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr)		*Recovery:*	*52 %*	*Limits: 25-140 %*	*1*	*03/18/25 15:19*	*EPA 8081B*	
Decachlorobiphenyl (Surr)			*62 %*	*30-135 %*	*1*	*03/18/25 15:19*	*EPA 8081B*	

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Darrell Auvil, Client Services Manager

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

ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: Willamette Cove GW SCE	
15618 SW 72nd Ave	Project Number: 1056-17	Report ID:
Tigard, OR 97224	Project Manager: Steve Misner	A5C1035 - 05 29 25 1544

ANALYTICAL SAMPLE RESULTS

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
T5-GW-58 (A5C1035-01)				**Matrix: Water**		**Batch: 25C0329**		**DCNT**
Acenaphthene	**0.278**	0.0176	0.0353	ug/L	1	03/10/25 15:14	EPA 8270E LVI	
Acenaphthylene	**0.0490**	0.0176	0.0353	ug/L	1	03/10/25 15:14	EPA 8270E LVI	
Anthracene	**0.107**	0.0176	0.0353	ug/L	1	03/10/25 15:14	EPA 8270E LVI	
Benz(a)anthracene	**0.0384**	0.00882	0.0176	ug/L	1	03/10/25 15:14	EPA 8270E LVI	
Benzo(a)pyrene	**0.0269**	0.00882	0.0176	ug/L	1	03/10/25 15:14	EPA 8270E LVI	
Benzo(b)fluoranthene	**0.0243**	0.00882	0.0176	ug/L	1	03/10/25 15:14	EPA 8270E LVI	
Benzo(k)fluoranthene	**0.00970**	0.00882	0.0176	ug/L	1	03/10/25 15:14	EPA 8270E LVI	**J**
Benzo(g,h,i)perylene	**0.0194**	0.0176	0.0353	ug/L	1	03/10/25 15:14	EPA 8270E LVI	**J**
Chrysene	**0.0472**	0.00882	0.0176	ug/L	1	03/10/25 15:14	EPA 8270E LVI	
Dibenz(a,h)anthracene	ND	0.00882	0.0176	ug/L	1	03/10/25 15:14	EPA 8270E LVI	
Fluoranthene	**0.225**	0.0176	0.0353	ug/L	1	03/10/25 15:14	EPA 8270E LVI	
Fluorene	**0.176**	0.0176	0.0353	ug/L	1	03/10/25 15:14	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	**0.0163**	0.00882	0.0176	ug/L	1	03/10/25 15:14	EPA 8270E LVI	**J**
1-Methylnaphthalene	**0.203**	0.0353	0.0706	ug/L	1	03/10/25 15:14	EPA 8270E LVI	
2-Methylnaphthalene	**0.226**	0.0353	0.0706	ug/L	1	03/10/25 15:14	EPA 8270E LVI	
Naphthalene	**0.954**	0.0353	0.0706	ug/L	1	03/10/25 15:14	EPA 8270E LVI	
Phenanthrene	**0.619**	0.0353	0.0706	ug/L	1	03/10/25 15:14	EPA 8270E LVI	
Pyrene	**0.289**	0.0176	0.0353	ug/L	1	03/10/25 15:14	EPA 8270E LVI	
Dibenzofuran	**0.0243**	0.0176	0.0353	ug/L	1	03/10/25 15:14	EPA 8270E LVI	**J**
Surrogate: Acenaphthylene-d8 (Surr)		*Recovery:*	*86 %*	*Limits:*	*78-134 %*	*1*	*03/10/25 15:14*	*EPA 8270E LVI*	
Benzo(a)pyrene-d12 (Surr)			*102 %*		*80-132 %*	*1*	*03/10/25 15:14*	*EPA 8270E LVI*	
T5-GW-69 (A5C1035-02RE1)				**Matrix: Water**		**Batch: 25C0446**		**DCNT**
Acenaphthene	**0.147**	0.0173	0.0345	ug/L	1	03/12/25 17:38	EPA 8270E LVI	
Acenaphthylene	**0.0328**	0.0173	0.0345	ug/L	1	03/12/25 17:38	EPA 8270E LVI	**J**
Anthracene	**0.0501**	0.0173	0.0345	ug/L	1	03/12/25 17:38	EPA 8270E LVI	
Benz(a)anthracene	**0.0138**	0.00863	0.0173	ug/L	1	03/12/25 17:38	EPA 8270E LVI	**J**
Benzo(a)pyrene	ND	0.00863	0.0173	ug/L	1	03/12/25 17:38	EPA 8270E LVI	
Benzo(b)fluoranthene	**0.00907**	0.00863	0.0173	ug/L	1	03/12/25 17:38	EPA 8270E LVI	**J**
Benzo(k)fluoranthene	ND	0.00863	0.0173	ug/L	1	03/12/25 17:38	EPA 8270E LVI	
Benzo(g,h,i)perylene	ND	0.0173	0.0345	ug/L	1	03/12/25 17:38	EPA 8270E LVI	
Chrysene	**0.0160**	0.00863	0.0173	ug/L	1	03/12/25 17:38	EPA 8270E LVI	**J**
Dibenz(a,h)anthracene	ND	0.00863	0.0173	ug/L	1	03/12/25 17:38	EPA 8270E LVI	

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Darrell Auvil, Client Services Manager

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

ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1035 - 05 29 25 1544**

ANALYTICAL SAMPLE RESULTS

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
T5-GW-69 (A5C1035-02RE1)				**Matrix: Water**		**Batch: 25C0446**		**DCNT**
Fluoranthene	**0.0937**	0.0173	0.0345	ug/L	1	03/12/25 17:38	EPA 8270E LVI	
Fluorene	**0.0993**	0.0173	0.0345	ug/L	1	03/12/25 17:38	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	ND	0.00863	0.0173	ug/L	1	03/12/25 17:38	EPA 8270E LVI	
1-Methylnaphthalene	**0.135**	0.0345	0.0691	ug/L	1	03/12/25 17:38	EPA 8270E LVI	
2-Methylnaphthalene	**0.148**	0.0345	0.0691	ug/L	1	03/12/25 17:38	EPA 8270E LVI	
Naphthalene	**0.662**	0.0345	0.0691	ug/L	1	03/12/25 17:38	EPA 8270E LVI	
Phenanthrene	**0.275**	0.0345	0.0691	ug/L	1	03/12/25 17:38	EPA 8270E LVI	
Pyrene	**0.114**	0.0173	0.0345	ug/L	1	03/12/25 17:38	EPA 8270E LVI	
Dibenzofuran	ND	0.0173	0.0345	ug/L	1	03/12/25 17:38	EPA 8270E LVI	
Surrogate: Acenaphthylene-d8 (Surr)		*Recovery: 84 %*		*Limits: 78-134 %*	*1*	*03/12/25 17:38*	*EPA 8270E LVI*	
Benzo(a)pyrene-d12 (Surr)		*101 %*		*80-132 %*	*1*	*03/12/25 17:38*	*EPA 8270E LVI*	

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ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1035 - 05 29 25 1544**

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
T5-GW-58 (A5C1035-01)				**Matrix: Water**				
Batch: 25C0929								
Arsenic	**14.5**	---	1.00	ug/L	1	03/24/25 22:19	EPA 6020B	
Iron	**10200**	---	50.0	ug/L	1	03/24/25 22:19	EPA 6020B	
Manganese	**2750**	---	1.00	ug/L	1	03/24/25 22:19	EPA 6020B	
T5-GW-69 (A5C1035-02)				**Matrix: Water**				
Batch: 25C0929								
Arsenic	**1.37**	---	1.00	ug/L	1	03/24/25 22:25	EPA 6020B	
Iron	**260**	---	50.0	ug/L	1	03/24/25 22:25	EPA 6020B	
Manganese	**432**	---	1.00	ug/L	1	03/24/25 22:25	EPA 6020B	

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1035 - 05 29 25 1544**

ANALYTICAL SAMPLE RESULTS

Dissolved Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
T5-GW-58 (A5C1035-01)				**Matrix: Water**				
Batch: 25C0902								
Arsenic	**12.1**	---	1.00	ug/L	1	03/24/25 00:34	EPA 6020B (Diss)	
Iron	**2190**	---	50.0	ug/L	1	03/24/25 00:34	EPA 6020B (Diss)	
Manganese	**2500**	---	1.00	ug/L	1	03/24/25 00:34	EPA 6020B (Diss)	
T5-GW-69 (A5C1035-02)				**Matrix: Water**				
Batch: 25C0902								
Arsenic	**1.27**	---	1.00	ug/L	1	03/24/25 00:44	EPA 6020B (Diss)	
Iron	**244**	---	50.0	ug/L	1	03/24/25 00:44	EPA 6020B (Diss)	
Manganese	**424**	---	1.00	ug/L	1	03/24/25 00:44	EPA 6020B (Diss)	

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1035 - 05 29 25 1544**

ANALYTICAL SAMPLE RESULTS

Anions by Ion Chromatography

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
T5-GW-58 (A5C1035-01)				**Matrix: Water**				
Batch: 25C0196								
Nitrate-Nitrogen	**0.312**	---	0.250	mg/L	1	03/05/25 21:27	EPA 300.0	
Sulfate	**11.6**	---	1.00	mg/L	1	03/05/25 21:27	EPA 300.0	
T5-GW-69 (A5C1035-02)				**Matrix: Water**				
Batch: 25C0196								
Nitrate-Nitrogen	**2.69**	---	0.250	mg/L	1	03/05/25 22:32	EPA 300.0	
Sulfate	**11.8**	---	1.00	mg/L	1	03/05/25 22:32	EPA 300.0	

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ORELAP ID: **OR100062**

Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1035 - 05 29 25 1544**

QUALITY CONTROL (QC) SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25C0658 - EPA 3510C (Neutral pH)/3640A (GPC)									Water			
Blank (25C0658-BLK1)				Prepared: 03/10/25 11:14		Analyzed: 03/18/25 12:26						**C-05**
EPA 8081B												
2,4'-DDD	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
2,4'-DDE	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
2,4'-DDT	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
4,4'-DDD	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
4,4'-DDE	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
4,4'-DDT	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 48 %*		*Limits: 25-140 %*			*Dilution: 1x*				
Decachlorobiphenyl (Surr)			*65 %*		*30-135 %*			*"*				
LCS (25C0658-BS1)				Prepared: 03/10/25 11:14		Analyzed: 03/18/25 12:44						**C-05**
EPA 8081B												
4,4'-DDD	0.511	0.0100	0.0200	ug/L	1	0.500	---	102	56-143%	---	---	
4,4'-DDE	0.429	0.0100	0.0200	ug/L	1	0.500	---	86	57-135%	---	---	
4,4'-DDT	0.521	0.0100	0.0200	ug/L	1	0.500	---	104	51-143%	---	---	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 46 %*		*Limits: 25-140 %*			*Dilution: 1x*				
Decachlorobiphenyl (Surr)			*57 %*		*30-135 %*			*"*				
LCS (25C0658-BS2)				Prepared: 03/10/25 11:14		Analyzed: 03/18/25 13:18						**C-05**
EPA 8081B												
2,4'-DDD	0.549	0.0100	0.0200	ug/L	1	0.500	---	110	66-120%	---	---	
2,4'-DDE	0.491	0.0100	0.0200	ug/L	1	0.500	---	98	55-120%	---	---	
2,4'-DDT	0.566	0.0100	0.0200	ug/L	1	0.500	---	113	62-127%	---	---	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 50 %*		*Limits: 25-140 %*			*Dilution: 1x*				
Decachlorobiphenyl (Surr)			*66 %*		*30-135 %*			*"*				
LCS Dup (25C0658-BSD1)				Prepared: 03/10/25 11:14		Analyzed: 03/18/25 13:01						**C-05, Q-19**
EPA 8081B												
4,4'-DDD	0.500	0.0100	0.0200	ug/L	1	0.500	---	100	56-143%	2	30%	
4,4'-DDE	0.424	0.0100	0.0200	ug/L	1	0.500	---	85	57-135%	1	30%	
4,4'-DDT	0.504	0.0100	0.0200	ug/L	1	0.500	---	101	51-143%	3	30%	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 42 %*		*Limits: 25-140 %*			*Dilution: 1x*				
Decachlorobiphenyl (Surr)			*57 %*		*30-135 %*			*"*				

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Darrell Auvil, Client Services Manager

Apex Laboratories, LLC

6700 S.W. Sandburg Street
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503-718-2323
ORELAP ID: **OR100062**

Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1035 - 05 29 25 1544**

QUALITY CONTROL (QC) SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25C0658 - EPA 3510C (Neutral pH)/3640A (GPC)							**Water**					
LCS Dup (25C0658-BSD2)				Prepared: 03/10/25 11:14 Analyzed: 03/18/25 13:36								**C-05, Q-19**
EPA 8081B												
2,4'-DDD	0.560	0.0100	0.0200	ug/L	1	0.500	---	112	66-120%	2	30%	
2,4'-DDE	0.484	0.0100	0.0200	ug/L	1	0.500	---	97	55-120%	1	30%	
2,4'-DDT	0.582	0.0100	0.0200	ug/L	1	0.500	---	116	62-127%	3	30%	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 52 %*	*Limits: 25-140 %*			*Dilution: 1x*					
Decachlorobiphenyl (Surr)			*63 %*	*30-135 %*			*"*					

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15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1035 - 05 29 25 1544**

QUALITY CONTROL (QC) SAMPLE RESULTS

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25C0329 - EPA 3511 (Bottle Extraction)								**Water**				
Blank (25C0329-BLK1)			Prepared: 03/10/25 06:54 Analyzed: 03/10/25 13:37									
EPA 8270E LVI												
Acenaphthene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Acenaphthylene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Anthracene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Benz(a)anthracene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Chrysene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Fluoranthene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Fluorene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
1-Methylnaphthalene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
2-Methylnaphthalene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
Phenanthrene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
Pyrene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Carbazole	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Dibenzofuran	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Surr: Acenaphthylene-d8 (Surr)			*Recovery: 83 %*		*Limits: 78-134 %*				*Dilution: 1x*			
Benzo(a)pyrene-d12 (Surr)			*98 %*		*80-132 %*				*"*			
LCS (25C0329-BS1)			Prepared: 03/10/25 06:54 Analyzed: 03/10/25 14:09									
EPA 8270E LVI												
Acenaphthene	1.60	0.0160	0.0320	ug/L	1	1.60	---	100	80-120%	---	---	
Acenaphthylene	1.45	0.0160	0.0320	ug/L	1	1.60	---	91	80-124%	---	---	
Anthracene	1.42	0.0160	0.0320	ug/L	1	1.60	---	89	80-123%	---	---	
Benz(a)anthracene	1.49	0.00800	0.0160	ug/L	1	1.60	---	93	80-122%	---	---	
Benzo(a)pyrene	1.59	0.00800	0.0160	ug/L	1	1.60	---	99	80-129%	---	---	
Benzo(b)fluoranthene	1.50	0.00800	0.0160	ug/L	1	1.60	---	94	80-124%	---	---	
Benzo(k)fluoranthene	1.53	0.00800	0.0160	ug/L	1	1.60	---	96	80-125%	---	---	
Benzo(g,h,i)perylene	1.40	0.0160	0.0320	ug/L	1	1.60	---	87	80-120%	---	---	

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Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1035 - 05 29 25 1544**

QUALITY CONTROL (QC) SAMPLE RESULTS

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25C0329 - EPA 3511 (Bottle Extraction)							**Water**					
LCS (25C0329-BS1)			Prepared: 03/10/25 06:54 Analyzed: 03/10/25 14:09									
Chrysene	1.41	0.00800	0.0160	ug/L	1	1.60	---	88	80-120%	---	---	
Dibenz(a,h)anthracene	1.48	0.00800	0.0160	ug/L	1	1.60	---	93	80-120%	---	---	
Fluoranthene	1.45	0.0160	0.0320	ug/L	1	1.60	---	90	80-126%	---	---	
Fluorene	1.75	0.0160	0.0320	ug/L	1	1.60	---	110	77-127%	---	---	
Indeno(1,2,3-cd)pyrene	1.35	0.00800	0.0160	ug/L	1	1.60	---	84	80-121%	---	---	
1-Methylnaphthalene	1.74	0.0320	0.0640	ug/L	1	1.60	---	109	53-148%	---	---	
2-Methylnaphthalene	1.71	0.0320	0.0640	ug/L	1	1.60	---	107	48-150%	---	---	
Naphthalene	1.67	0.0320	0.0640	ug/L	1	1.60	---	104	78-120%	---	---	
Phenanthrene	1.43	0.0320	0.0640	ug/L	1	1.60	---	90	80-120%	---	---	
Pyrene	1.43	0.0160	0.0320	ug/L	1	1.60	---	90	80-125%	---	---	
Carbazole	1.63	0.0160	0.0320	ug/L	1	1.60	---	102	65-141%	---	---	
Dibenzofuran	1.54	0.0160	0.0320	ug/L	1	1.60	---	96	76-121%	---	---	
Surr: Acenaphthylene-d8 (Surr)			*Recovery: 85 %*		*Limits: 78-134 %*				*Dilution: 1x*			
Benzo(a)pyrene-d12 (Surr)			*100 %*		*80-132 %*				*"*			
LCS Dup (25C0329-BSD1)			Prepared: 03/10/25 06:54 Analyzed: 03/10/25 14:42									**Q-19**
EPA 8270E LVI												
Acenaphthene	1.70	0.0160	0.0320	ug/L	1	1.60	---	107	80-120%	7	30%	
Acenaphthylene	1.55	0.0160	0.0320	ug/L	1	1.60	---	97	80-124%	7	30%	
Anthracene	1.42	0.0160	0.0320	ug/L	1	1.60	---	89	80-123%	0.3	30%	
Benz(a)anthracene	1.51	0.00800	0.0160	ug/L	1	1.60	---	95	80-122%	2	30%	
Benzo(a)pyrene	1.59	0.00800	0.0160	ug/L	1	1.60	---	100	80-129%	0.3	30%	
Benzo(b)fluoranthene	1.52	0.00800	0.0160	ug/L	1	1.60	---	95	80-124%	1	30%	
Benzo(k)fluoranthene	1.54	0.00800	0.0160	ug/L	1	1.60	---	96	80-125%	0.4	30%	
Benzo(g,h,i)perylene	1.42	0.0160	0.0320	ug/L	1	1.60	---	88	80-120%	1	30%	
Chrysene	1.42	0.00800	0.0160	ug/L	1	1.60	---	89	80-120%	0.7	30%	
Dibenz(a,h)anthracene	1.51	0.00800	0.0160	ug/L	1	1.60	---	94	80-120%	1	30%	
Fluoranthene	1.46	0.0160	0.0320	ug/L	1	1.60	---	92	80-126%	1	30%	
Fluorene	1.90	0.0160	0.0320	ug/L	1	1.60	---	119	77-127%	8	30%	
Indeno(1,2,3-cd)pyrene	1.37	0.00800	0.0160	ug/L	1	1.60	---	86	80-121%	2	30%	
1-Methylnaphthalene	1.69	0.0320	0.0640	ug/L	1	1.60	---	106	53-148%	3	30%	
2-Methylnaphthalene	1.64	0.0320	0.0640	ug/L	1	1.60	---	102	48-150%	4	30%	
Naphthalene	1.75	0.0320	0.0640	ug/L	1	1.60	---	109	78-120%	5	30%	
Phenanthrene	1.47	0.0320	0.0640	ug/L	1	1.60	---	92	80-120%	2	30%	

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Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1035 - 05 29 25 1544**

QUALITY CONTROL (QC) SAMPLE RESULTS

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25C0329 - EPA 3511 (Bottle Extraction)							**Water**					
LCS Dup (25C0329-BSD1)			Prepared: 03/10/25 06:54		Analyzed: 03/10/25 14:42							**Q-19**
Pyrene	1.44	0.0160	0.0320	ug/L	1	1.60	---	90	80-125%	0.4	30%	
Carbazole	1.65	0.0160	0.0320	ug/L	1	1.60	---	103	65-141%	2	30%	
Dibenzofuran	1.63	0.0160	0.0320	ug/L	1	1.60	---	102	76-121%	6	30%	
Surr: Acenaphthylene-d8 (Surr)			*Recovery: 86 %*		*Limits: 78-134 %*				*Dilution: 1x*			
Benzo(a)pyrene-d12 (Surr)			*99 %*		*80-132 %*				*"*			

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Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1035 - 05 29 25 1544**

QUALITY CONTROL (QC) SAMPLE RESULTS

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25C0446 - EPA 3511 (Bottle Extraction)								**Water**				
Blank (25C0446-BLK1)			Prepared: 03/12/25 08:09 Analyzed: 03/12/25 12:12									
EPA 8270E LVI												
Acenaphthene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Acenaphthylene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Anthracene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Benz(a)anthracene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Chrysene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Fluoranthene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Fluorene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
1-Methylnaphthalene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
2-Methylnaphthalene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
Phenanthrene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
Pyrene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Carbazole	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Dibenzofuran	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Surr: Acenaphthylene-d8 (Surr)			*Recovery: 92 %*		*Limits: 78-134 %*				*Dilution: 1x*			
Benzo(a)pyrene-d12 (Surr)			*96 %*		*80-132 %*				*"*			
LCS (25C0446-BS1)			Prepared: 03/12/25 08:09 Analyzed: 03/12/25 12:45									
EPA 8270E LVI												
Acenaphthene	1.52	0.0160	0.0320	ug/L	1	1.60	---	95	80-120%	---	---	
Acenaphthylene	1.53	0.0160	0.0320	ug/L	1	1.60	---	95	80-124%	---	---	
Anthracene	1.46	0.0160	0.0320	ug/L	1	1.60	---	91	80-123%	---	---	
Benz(a)anthracene	1.58	0.00800	0.0160	ug/L	1	1.60	---	99	80-122%	---	---	
Benzo(a)pyrene	1.65	0.00800	0.0160	ug/L	1	1.60	---	103	80-129%	---	---	
Benzo(b)fluoranthene	1.56	0.00800	0.0160	ug/L	1	1.60	---	98	80-124%	---	---	
Benzo(k)fluoranthene	1.60	0.00800	0.0160	ug/L	1	1.60	---	100	80-125%	---	---	
Benzo(g,h,i)perylene	1.48	0.0160	0.0320	ug/L	1	1.60	---	93	80-120%	---	---	

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15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1035 - 05 29 25 1544**

QUALITY CONTROL (QC) SAMPLE RESULTS

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25C0446 - EPA 3511 (Bottle Extraction)							**Water**					
LCS (25C0446-BS1)			Prepared: 03/12/25 08:09 Analyzed: 03/12/25 12:45									
Chrysene	1.47	0.00800	0.0160	ug/L	1	1.60	---	92	80-120%	---	---	
Dibenz(a,h)anthracene	1.56	0.00800	0.0160	ug/L	1	1.60	---	98	80-120%	---	---	
Fluoranthene	1.51	0.0160	0.0320	ug/L	1	1.60	---	94	80-126%	---	---	
Fluorene	1.71	0.0160	0.0320	ug/L	1	1.60	---	107	77-127%	---	---	
Indeno(1,2,3-cd)pyrene	1.36	0.00800	0.0160	ug/L	1	1.60	---	85	80-121%	---	---	
1-Methylnaphthalene	1.48	0.0320	0.0640	ug/L	1	1.60	---	92	53-148%	---	---	
2-Methylnaphthalene	1.43	0.0320	0.0640	ug/L	1	1.60	---	90	48-150%	---	---	
Naphthalene	1.55	0.0320	0.0640	ug/L	1	1.60	---	97	78-120%	---	---	
Phenanthrene	1.47	0.0320	0.0640	ug/L	1	1.60	---	92	80-120%	---	---	
Pyrene	1.50	0.0160	0.0320	ug/L	1	1.60	---	94	80-125%	---	---	
Carbazole	1.62	0.0160	0.0320	ug/L	1	1.60	---	101	65-141%	---	---	
Dibenzofuran	1.61	0.0160	0.0320	ug/L	1	1.60	---	101	76-121%	---	---	
Surr: Acenaphthylene-d8 (Surr)			*Recovery: 87 %*		*Limits: 78-134 %*			*Dilution: 1x*				
Benzo(a)pyrene-d12 (Surr)			*99 %*		*80-132 %*			*"*				
Matrix Spike (25C0446-MS1)			Prepared: 03/12/25 08:10 Analyzed: 03/12/25 13:50									
QC Source Sample: Non-SDG (A5C1214-06)												
EPA 8270E LVI												
Acenaphthene	87.6	0.359	0.719	ug/L	20	1.80	89.1	**-83**	**80-120%**	---	---	Q-03
Acenaphthylene	8.96	0.359	0.719	ug/L	20	1.80	8.52	**24**	**80-124%**	---	---	Q-03
Anthracene	6.25	0.359	0.719	ug/L	20	1.80	4.44	101	80-123%	---	---	
Benz(a)anthracene	1.96	0.359	0.359	ug/L	20	1.80	ND	109	80-122%	---	---	
Benzo(a)pyrene	1.84	0.180	0.359	ug/L	20	1.80	ND	102	80-129%	---	---	
Benzo(b)fluoranthene	1.69	0.180	0.359	ug/L	20	1.80	ND	94	80-124%	---	---	
Benzo(k)fluoranthene	1.78	0.180	0.359	ug/L	20	1.80	ND	99	80-125%	---	---	
Benzo(g,h,i)perylene	1.61	0.359	0.719	ug/L	20	1.80	ND	90	80-120%	---	---	
Chrysene	1.70	0.180	0.359	ug/L	20	1.80	ND	95	80-120%	---	---	
Dibenz(a,h)anthracene	1.62	0.180	0.359	ug/L	20	1.80	ND	90	80-120%	---	---	
Fluoranthene	3.48	0.359	0.719	ug/L	20	1.80	2.09	**77**	**80-126%**	---	---	Q-03
Fluorene	22.7	0.359	0.719	ug/L	20	1.80	21.4	**74**	**77-127%**	---	---	Q-03
Indeno(1,2,3-cd)pyrene	1.63	0.180	0.359	ug/L	20	1.80	ND	91	80-121%	---	---	
1-Methylnaphthalene	78.7	0.719	1.44	ug/L	20	1.80	79.7	**-56**	**53-148%**	---	---	Q-03
2-Methylnaphthalene	87.8	0.719	1.44	ug/L	20	1.80	90.0	**-123**	**48-150%**	---	---	Q-03
Naphthalene	925	0.719	1.44	ug/L	20	1.80	971	**-2540**	**78-120%**	---	---	E, Q-03

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ORELAP ID: **OR100062**

Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1035 - 05 29 25 1544**

QUALITY CONTROL (QC) SAMPLE RESULTS

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25C0446 - EPA 3511 (Bottle Extraction)								**Water**				
Matrix Spike (25C0446-MS1)			Prepared: 03/12/25 08:10 Analyzed: 03/12/25 13:50									
QC Source Sample: Non-SDG (A5C1214-06)												
Phenanthrene	22.1	0.719	1.44	ug/L	20	1.80	21.1	**56**	**80-120%**	---	---	Q-03
Pyrene	3.26	0.359	0.719	ug/L	20	1.80	1.79	82	80-125%	---	---	
Carbazole	35.5	0.359	0.719	ug/L	20	1.80	33.8	92	65-141%	---	---	
Dibenzofuran	9.16	0.359	0.719	ug/L	20	1.80	7.75	79	76-121%	---	---	
Surr: Acenaphthylene-d8 (Surr)			*Recovery: % 100 %*	*Limits: 78-134 %*			*Dilution: 20x*					*S-01*
Benzo(a)pyrene-d12 (Surr)			*80-132 %*				*"*					*S-05*
Matrix Spike Dup (25C0446-MSD1)			Prepared: 03/12/25 08:10 Analyzed: 03/12/25 14:23									
QC Source Sample: Non-SDG (A5C1214-06)												
Acenaphthene	88.8	0.351	0.703	ug/L	20	1.76	89.1	**-20**	**80-120%**	1	30%	Q-03
Acenaphthylene	8.69	0.351	0.703	ug/L	20	1.76	8.52	**10**	**80-124%**	3	30%	Q-03
Anthracene	6.24	0.351	0.703	ug/L	20	1.76	4.44	103	80-123%	0.1	30%	
Benz(a)anthracene	1.94	0.351	0.351	ug/L	20	1.76	ND	110	80-122%	0.9	30%	
Benzo(a)pyrene	1.67	0.176	0.351	ug/L	20	1.76	ND	95	80-129%	10	30%	
Benzo(b)fluoranthene	1.70	0.176	0.351	ug/L	20	1.76	ND	96	80-124%	0.4	30%	
Benzo(k)fluoranthene	1.67	0.176	0.351	ug/L	20	1.76	ND	95	80-125%	6	30%	
Benzo(g,h,i)perylene	1.49	0.351	0.703	ug/L	20	1.76	ND	85	80-120%	7	30%	
Chrysene	1.62	0.176	0.351	ug/L	20	1.76	ND	92	80-120%	4	30%	
Dibenz(a,h)anthracene	1.61	0.176	0.351	ug/L	20	1.76	ND	92	80-120%	0.6	30%	
Fluoranthene	3.61	0.351	0.703	ug/L	20	1.76	2.09	87	80-126%	4	30%	
Fluorene	23.2	0.351	0.703	ug/L	20	1.76	21.4	101	77-127%	2	30%	
Indeno(1,2,3-cd)pyrene	1.55	0.176	0.351	ug/L	20	1.76	ND	88	80-121%	6	30%	
1-Methylnaphthalene	81.9	0.703	1.41	ug/L	20	1.76	79.7	126	53-148%	4	30%	
2-Methylnaphthalene	91.6	0.703	1.41	ug/L	20	1.76	90.0	90	48-150%	4	30%	
Naphthalene	954	0.703	1.41	ug/L	20	1.76	971	**-964**	**78-120%**	3	30%	E, Q-03
Phenanthrene	22.9	0.703	1.41	ug/L	20	1.76	21.1	102	80-120%	4	30%	
Pyrene	3.28	0.351	0.703	ug/L	20	1.76	1.79	85	80-125%	0.7	30%	
Carbazole	36.7	0.351	0.703	ug/L	20	1.76	33.8	**166**	**65-141%**	3	30%	Q-03
Dibenzofuran	9.18	0.351	0.703	ug/L	20	1.76	7.75	81	76-121%	0.2	30%	
Surr: Acenaphthylene-d8 (Surr)			*Recovery: % 95 %*	*Limits: 78-134 %*			*Dilution: 20x*					*S-01*
Benzo(a)pyrene-d12 (Surr)			*80-132 %*				*"*					*S-05*

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Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1035 - 05 29 25 1544**

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 25C0929 - EPA 3015A									Water			
Blank (25C0929-BLK1)			Prepared: 03/24/25 09:01		Analyzed: 03/24/25 21:47							
EPA 6020B												
Arsenic	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Iron	ND	---	50.0	ug/L	1	---	---	---	---	---	---	
Manganese	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
LCS (25C0929-BS1)			Prepared: 03/24/25 09:01		Analyzed: 03/24/25 21:52							
EPA 6020B												
Arsenic	57.2	---	1.00	ug/L	1	55.6	---	103	80-120%	---	---	
Iron	5670	---	50.0	ug/L	1	5560	---	102	80-120%	---	---	
Manganese	57.1	---	1.00	ug/L	1	55.6	---	103	80-120%	---	---	
Duplicate (25C0929-DUP1)			Prepared: 03/24/25 09:01		Analyzed: 03/24/25 22:08							
QC Source Sample: Non-SDG (A5C0942-01)												
Arsenic	**38.2**	---	1.00	ug/L	1	---	22.3	---	---	**53**	**20%**	Q-04
Duplicate (25C0929-DUP2)			Prepared: 03/24/25 09:01		Analyzed: 03/25/25 15:21							
QC Source Sample: Non-SDG (A5C0942-01RE1)												
Iron	**202000**	---	500	ug/L	10	---	149000	---	---	**30**	**20%**	Q-04, Q-16
Manganese	**5090**	---	10.0	ug/L	10	---	5120	---	---	0.4	20%	Q-16
Matrix Spike (25C0929-MS1)			Prepared: 03/24/25 09:01		Analyzed: 03/24/25 22:14							
QC Source Sample: Non-SDG (A5C0942-01)												
EPA 6020B												
Arsenic	81.4	---	1.00	ug/L	1	55.6	22.3	106	75-125%	---	---	
Iron	169000	---	50.0	ug/L	1	5560	142000	**490**	**75-125%**	---	---	E, Q-65
Manganese	4950	---	1.00	ug/L	1	55.6	4800	**268**	**75-125%**	---	---	E, Q-65

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Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1035 - 05 29 25 1544**

QUALITY CONTROL (QC) SAMPLE RESULTS

Dissolved 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 25C0902 - Matrix Matched Direct Inject									Water			
Blank (25C0902-BLK1)			Prepared: 03/22/25 13:23		Analyzed: 03/24/25 00:23							
EPA 6020B (Diss)												
Arsenic	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Iron	ND	---	50.0	ug/L	1	---	---	---	---	---	---	
Manganese	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
LCS (25C0902-BS1)			Prepared: 03/22/25 13:23		Analyzed: 03/24/25 00:28							
EPA 6020B (Diss)												
Arsenic	55.3	---	1.00	ug/L	1	55.6	---	100	80-120%	---	---	
Iron	5740	---	50.0	ug/L	1	5560	---	103	80-120%	---	---	
Manganese	56.2	---	1.00	ug/L	1	55.6	---	101	80-120%	---	---	
Duplicate (25C0902-DUP1)			Prepared: 03/22/25 13:23		Analyzed: 03/24/25 00:39							
QC Source Sample: T5-GW-58 (A5C1035-01)												
EPA 6020B (Diss)												
Arsenic	**12.3**	---	1.00	ug/L	1	---	12.1	---	---	1	20%	
Iron	**2240**	---	50.0	ug/L	1	---	2190	---	---	2	20%	
Manganese	**2550**	---	1.00	ug/L	1	---	2500	---	---	2	20%	
Matrix Spike (25C0902-MS1)			Prepared: 03/22/25 13:23		Analyzed: 03/24/25 01:01							
QC Source Sample: Non-SDG (A5C1099-02)												
EPA 6020B (Diss)												
Arsenic	94.6	---	1.00	ug/L	1	55.6	37.4	103	75-125%	---	---	
Iron	35300	---	50.0	ug/L	1	5560	30000	96	75-125%	---	---	
Manganese	10500	---	1.00	ug/L	1	55.6	10600	**-87**	**75-125%**	---	---	E, Q-65
Matrix Spike (25C0902-MS2)			Prepared: 03/22/25 13:23		Analyzed: 03/24/25 19:42							
QC Source Sample: Non-SDG (A5C1099-02RE1)												
EPA 6020B (Diss)												
Manganese	10900	---	10.0	ug/L	10	55.6	10900	**-111**	**75-125%**	---	---	Q-16

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15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1035 - 05 29 25 1544**

QUALITY CONTROL (QC) SAMPLE RESULTS

Anions by Ion Chromatography

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25C0196 - Method Prep: Aq							**Water**					
Blank (25C0196-BLK1)			Prepared: 03/05/25 14:46		Analyzed: 03/05/25 16:04							
EPA 300.0												
Nitrate-Nitrogen	ND	---	0.250	mg/L	1	---	---	---	---	---	---	
Sulfate	ND	---	1.00	mg/L	1	---	---	---	---	---	---	
LCS (25C0196-BS1)			Prepared: 03/05/25 14:46		Analyzed: 03/05/25 16:26							
EPA 300.0												
Nitrate-Nitrogen	1.95	---	0.250	mg/L	1	2.00	---	98	90-110%	---	---	
Sulfate	7.73	---	1.00	mg/L	1	8.00	---	97	90-110%	---	---	
Duplicate (25C0196-DUP1)			Prepared: 03/05/25 14:46		Analyzed: 03/05/25 17:09							
QC Source Sample: Non-SDG (A5C0993-01)												
Nitrate-Nitrogen	ND	---	0.250	mg/L	1	---	ND	---	---	---	10%	
Sulfate	**3.95**	---	1.00	mg/L	1	---	3.94	---	---	0.2	10%	
Duplicate (25C0196-DUP2)			Prepared: 03/05/25 14:46		Analyzed: 03/05/25 21:49							
QC Source Sample: T5-GW-58 (A5C1035-01)												
EPA 300.0												
Nitrate-Nitrogen	**0.313**	---	0.250	mg/L	1	---	0.312	---	---	0.4	10%	
Sulfate	**11.6**	---	1.00	mg/L	1	---	11.6	---	---	0.1	10%	
Matrix Spike (25C0196-MS1)			Prepared: 03/05/25 14:46		Analyzed: 03/05/25 17:30							
QC Source Sample: Non-SDG (A5C0993-01)												
EPA 300.0												
Nitrate-Nitrogen	2.45	---	0.312	mg/L	1	2.50	ND	98	87-112%	---	---	
Sulfate	13.6	---	1.25	mg/L	1	10.0	3.94	97	88-115%	---	---	
Matrix Spike (25C0196-MS2)			Prepared: 03/05/25 14:46		Analyzed: 03/05/25 22:10							
QC Source Sample: T5-GW-58 (A5C1035-01)												
EPA 300.0												
Nitrate-Nitrogen	2.78	---	0.312	mg/L	1	2.50	0.312	99	87-112%	---	---	
Sulfate	21.4	---	1.25	mg/L	1	10.0	11.6	99	88-115%	---	---	

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	
Tigard, OR 97224	Project Manager: **Steve Misner**	**Report ID:** **A5C1035 - 05 29 25 1544**

SAMPLE PREPARATION INFORMATION

Organochlorine Pesticides by EPA 8081B

Prep: EPA 3510C (Neutral pH)/3640A (GPC)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25C0658							
A5C1035-01RE1	Water	EPA 8081B	03/05/25 11:18	03/10/25 11:14	1050mL/10mL	1000mL/5mL	1.90
A5C1035-02RE1	Water	EPA 8081B	03/05/25 13:58	03/10/25 11:14	1030mL/10mL	1000mL/5mL	1.94

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Prep: EPA 3511 (Bottle Extraction)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25C0329							
A5C1035-01	Water	EPA 8270E LVI	03/05/25 11:18	03/10/25 06:54	113.37mL/5mL	125mL/5mL	1.10
Batch: 25C0446							
A5C1035-02RE1	Water	EPA 8270E LVI	03/05/25 13:58	03/12/25 08:09	115.81mL/5mL	125mL/5mL	1.08

Total Metals by EPA 6020B (ICPMS)

Prep: EPA 3015A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25C0929							
A5C1035-01	Water	EPA 6020B	03/05/25 11:18	03/24/25 09:01	45mL/50mL	45mL/50mL	1.00
A5C1035-02	Water	EPA 6020B	03/05/25 13:58	03/24/25 09:01	45mL/50mL	45mL/50mL	1.00

Dissolved Metals by EPA 6020B (ICPMS)

Prep: Matrix Matched Direct Inject

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25C0902							
A5C1035-01	Water	EPA 6020B (Diss)	03/05/25 11:18	03/22/25 13:23	45mL/50mL	45mL/50mL	1.00
A5C1035-02	Water	EPA 6020B (Diss)	03/05/25 13:58	03/22/25 13:23	45mL/50mL	45mL/50mL	1.00

Anions by Ion Chromatography

Prep: Method Prep: Aq

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25C0196							
A5C1035-01	Water	EPA 300.0	03/05/25 11:18	03/05/25 14:46	5mL/5mL	5mL/5mL	1.00
A5C1035-02	Water	EPA 300.0	03/05/25 13:58	03/05/25 14:46	5mL/5mL	5mL/5mL	1.00

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15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1035 - 05 29 25 1544**

QUALIFIER DEFINITIONS

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

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C-05	Extract has undergone a GPC (Gel-Permeation Chromatography) cleanup per EPA 3640A. Reporting levels may be raised due to dilution necessary for cleanup. Sample Final Volume includes the GPC dilution factor, see the Prep page for details.
DCNT	Sample decanted due to the presence of sediment in water samples, or water in sediment or soil samples. (Note: Decanted aqueous sample bottles are not solvent rinsed.)
E	Estimated Value. The result is above the calibration range of the instrument.
J	Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified DL.
Q-03	Spike recovery and/or RPD is outside control limits due to the high concentration of analyte present in the sample.
Q-04	Spike recovery and/or RPD is outside control limits due to a non-homogeneous sample matrix.
Q-16	Reanalysis of an original Batch QC sample.
Q-19	Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis.
Q-65	Spike recovery is estimated due to the high analyte concentration of the source sample.
S-01	Surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference.
S-05	Surrogate recovery is estimated due to sample dilution required for high analyte concentration and/or matrix interference.

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ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
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Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1035 - 05 29 25 1544**

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)

Validated 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 and Detection Limits: Default Limits

Default Reporting and Detection Limits are based on 100% dry weight with the minimum dilution for the analysis. Reporting and Detection Limits are raised due to moisture content, additional dilutions required for analysis, matrix interferences and in other cases, as necessary.

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

Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1035 - 05 29 25 1544**

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to one half of the Reporting Limit (RL).
Blank results for gravimetric analyses are evaluated to the Reporting Level, not to half of the Reporting Level.
-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.

Apex Laboratories, LLC

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Decanted Samples:

Soils/Sediments:
Unless TCLP analysis is required or there is notification otherwise for a specific project, all Soil and Sediments containing excess water are decanted prior to analysis in order to provide the most representative sample for analysis.

Water Samples:
Water samples containing solids and sediment may need to be decanted in order to eliminate these particulates from the water extractions. In the case of organics extractions, a solvent rinse of the container will not be performed.

Volatiles Soils (5035s)
Samples that are field preserved by 5035 for volatiles are dry weight corrected using the same dry weight corretion as for normal analyses. In the case of decanted samples, the dry weight may be performed on a decanted sample, while the aliquot for 5035 may not have been treated the same way. If this is a concern, please submit separate containers for dry weight analysis for volatiles can be provided.

All samples decanted in the laboratory are noted in this report with the DCNT qualifier indicating the sample was decanted.

Apex Laboratories

Darrell Auvil, Client Services Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

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ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1035 - 05 29 25 1544**

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

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

Secondary Accreditations

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

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.
Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

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

Apex Laboratories

Darrell Auvil, Client Services Manager

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503-718-2323
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ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1035 - 05 29 25 1544**

APEX LABS — **CHAIN OF CUSTODY** — Lab # A5C1035 — COC 1 of 1

6700 SW Sandburg St., Tigard, OR 97223 Ph: 503-718-2323

Company: Apex Companies LLC | Project Mgr: Steve Misner | Project Name: Willamette Cove SCE | Project #: 1056-17

Address: 15618 SW 72nd Ave, Tigard OR 97224 | Phone: 503-348-3906 | Email: Steve.Misner@apexcos.com | PO #

Sampled by: Chris Weer

Site Location: (OR) WA CA AK ID ___

SAMPLE ID	LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID	NWTPH-Dx	NWTPH-Gx	8260 BTEX	8260 RBDM VOCs	8260 Halo VOCs	8260 VOCs Full List	8270 SIM PAHs	8270 Semi-Vols Full List	8082 PCBs	8081 Pest DDT, DDD & DDE ONLY	RCRA Metals (8)	Priority Metals (13)	Al, Sb, (As) Ba, Be, Cd, Ca, Cr, Co, Cu, (Fe) Pb, Hg, Mg, (Mn) Mo, Ni, K, Se, Ag, Na, Tl, V, Zn (TOTAL) (DISS) TCLP	TCLP Metals (8)	TOC	Nitrate (as N)/ Sulfate	PCB Congeor by EPA 1628	Archive
T5 - GW - 58		3/5/2025	1118	GW	10								X			X			X	X	X	X	
T5 - GW - 69		3/5/2025	1358	GW	10								X			X			X	X	X	X	

(Normal) Turn Around Time (TAT) = 10 Business Days

TAT Requested (circle): 1 Day 2 Day 3 Day 4 DAY 5 DAY Other: ___

SPECIAL INSTRUCTIONS:

SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature:	Signature:	Signature:	Signature:
Date: 3/5/25	Date: 3/5/25	Date:	Date:
Time: 17:19	Time: 17:19	Time:	Time:
Printed Name: Chris Weer	Printed Name: Kristel Norbes	Printed Name:	Printed Name:
Company:	Company: Apex	Company:	Company:

Apex Laboratories

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Darrell Auvil, Client Services Manager

Apex Laboratories, LLC

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Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
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APEX LABS COOLER RECEIPT FORM

Client: Apex Companies LLC Element WO#: A5 C1035

Project/Project #: Willamette Cove SCE | 1056-17

Delivery Info:

Date/time received: 3|5|25 @ 1719 By: KN

Delivered by: Apex__Client X ESS__FedEx__UPS__Radio__Morgan__SDS__Evergreen__Other__

From USDA Regulated Origin? Yes ____ No ✓

Cooler Inspection Date/time inspected: 3|5|25 @ 1719 By: KN

Chain of Custody included? Yes ✓ No ____

Signed/dated by client? Yes ✓ No ____

Contains USDA Reg. Soils? Yes ____ No ✓ Unsure (email RegSoils) ____

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	4.5						
Custody seals? (Y/N)	N						
Received on ice? (Y/N)	Y						
Temp. blanks? (Y/N)	Y						
Ice type: (Gel/Real/Other)	Real						
Condition (In/Out):	In						

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: 3|5|25 @ 1727 By: ZA

All samples intact? Yes ✓ No ___ Comments:

Bottle labels/COCs agree? Yes ✓ No ___ Comments:

COC/container discrepancies form initiated? Yes ___ No ✓

Containers/volumes received appropriate for analysis? Yes ✓ No ___ Comments:

Do VOA vials have visible headspace? Yes ___ No ___ NA ✓

Comments

Water samples: pH checked: Yes ✓ No ___ NA ___ pH appropriate? Yes ✓ No ___ NA ___ pH ID: A23I172

Comments:

Labeled by: ZA Witness: KN Cooler Inspected by: ZA

Form Y-003 R-02 -

Apex Laboratories

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Darrell Auvil, Client Services Manager

CERES Analytical Laboratory, Inc.
4919 Windplay Dr. Suite 1, El Dorado Hills, CA 95762

March 21, 2025 Ceres ID: 19247

Apex Laboratories
6700 S.W. Sandburg Street
Tigard, OR 97223

The following report contains the results for the two aqueous samples received on March 7, 2025. These samples were analyzed for congener PCBs by EPA method 1668C. Standard 3-week turn-around time was provided for this work.

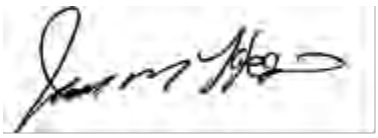
This work was authorized under Apex Laboratories' Project # A5C1035.

Continuing Calibration Verification (CCV) Requirements
All associated calibration verification standard(s) (CCV) met the acceptance criteria.

The report consists of a Cover Letter, Sample Inventory (Section I), Data Summary (Section II), Sample Tracking (Section VI), and Qualifiers/Abbreviations (Section VII). Raw Data (Section III), Continuing Calibration (Section IV), and Initial Calibration (Section V) are available in a full report (.pdf format) upon request.

If you have any questions regarding this report, please feel free to contact me at (916)932-5011.

Sincerely,



James M. Hedin
Director of Operations/CEO
jhedin@ceres-lab.com

Section I: Sample Inventory

Ceres Sample ID:	Sample ID	Date Received	Collection Date	&Time
19247-001	T5-GW-58	3/7/2025	3/5/2025	11:18
19247-002	T5-GW-69	3/7/2025	3/5/2025	13:58

Section II: Data Summary

Sample ID: Method Blank

	Ceres ID:	0-3442-MB		**Date Received:**	NA
Project ID:	A5C1035	**QC Batch #:**	3442	**Date Extracted:**	14-Mar-25
Matrix:	Aqueous	**Sample Size:**	1.000 L	**Analyzed Date:**	15-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2-MoCB	1	ND		20.0	2.08
3-MoCB	2	ND		20.0	3.49
4-MoCB	3	ND		20.0	3.49
2,2'-/2,6-DiCB	4/10	ND		20.0	8.07
2,4-/2,5-DiCB	7/9	ND		20.0	8.07
2,3'-DiCB	6	ND		20.0	8.07
2,3-/2,4'-DiCB	5/8	ND		20.0	8.07
3,5-DiCB	14	ND		20.0	8.31
3,3'-DiCB	11	ND		20.0	8.31
3,4-/3,4'-DiCB	12/13	ND		20.0	8.31
4,4'-DiCB	15	ND		20.0	8.31
2,2',6-TrCB	19	ND		20.0	4.97
2,4,6-TrCB	30	ND		20.0	4.97
2,2',5-TrCB	18	ND		20.0	4.97
2,2',4-TrCB	17	ND		20.0	4.97
2,3,6-/2,3',6-TrCB	24/27	ND		20.0	4.97
2,2',3-/2,4',6-TrCB	16/32	ND		20.0	4.97
2',3,5-TrCB	34	ND		20.0	5.86
2,3,5-TrCB	23	ND		20.0	5.86
2,4,5-TrCB	29	ND		20.0	5.86
2,3',5-TrCB	26	ND		20.0	5.86
2,3',4-TrCB	25	ND		20.0	5.86
2,4',5-TrCB	31	ND		20.0	5.86
2,4,4'-TrCB	28	ND		20.0	5.86
2,3,3'-/2,3,4-/2',3,4-TrCB	20/21/33	ND		20.0	5.86
2,3,4'-TrCB	22	ND		20.0	5.86
3,3',5-TrCB	36	ND		20.0	5.86
3,4',5-TrCB	39	ND		20.0	5.86
3,4,5-TrCB	38	ND		20.0	5.86
3,3',4-TrCB	35	ND		20.0	5.86
3,4,4'-TrCB	37	ND		20.0	5.86
2,2',6,6'-TeCB	54	ND		20.0	3.75
2,2',4,6-TeCB	50	ND		20.0	3.75
2,2',5,6'-TeCB	53	ND		20.0	3.75
2,2',4,6'-TeCB	51	ND		20.0	3.75
2,2',3,6-TeCB	45	ND		20.0	3.75
2,2',3,6'-TeCB	46	ND		20.0	3.75
2,2',5,5'-/2,3',4,6-TeCB	52/69	ND		20.0	3.75
2,3',5',6-TeCB	73	ND		20.0	3.75
2,2',3-5-/2,2',4,5'-TeCB	43/49	ND		20.0	3.75
2,2',4,4'-TeCB	47	ND		20.0	3.75
2,2',4,5-/2,4,4',6-TeCB	48/75	ND		20.0	3.75
2,3,5,6-TeCB	65	ND		20.0	3.75
2,3,4,6-TeCB	62	ND		20.0	3.75

Sample ID: Method Blank

		Ceres ID:	0-3442-MB	**Date Received:**	NA
Project:	A5C1035	**QC Batch #:**	3442	**Date Extracted:**	14-Mar-25
Matrix:	Aqueous	**Sample Size:**	1.000 L	**Analyzed Date:**	15-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2,2',3,5'-TeCB	44	ND		20.0	3.75
2,2',3,4'-/2,3,3',6-TeCB	42/59	ND		20.0	3.75
2,2',3,4-/2,3,4',6-/2,3',4',6-/2,3',5,5'-TeCB	41/64/71/72	ND		20.0	3.75
2,3',4,5'-TeCB	68	ND		20.0	3.75
2,2',3,3'-TeCB	40	ND		20.0	3.75
2,3,3',5-TeCB	57	ND		20.0	3.75
2,3',4,5-TeCB	67	ND		20.0	3.75
2,3,3',5'-TeCB	58	ND		20.0	3.75
2,3,4',5-TeCB	63	ND		20.0	3.75
2,4,4',5-TeCB	74	ND		20.0	3.75
2,3,4,5-/2,3',4',5-TeCB	61/70	ND		20.0	3.75
2,3',4,4'-/2',3,4,5-TeCB	66/76	ND		20.0	3.75
3,3',5,5'-TeCB	80	ND		20.0	3.75
2,3,3',4-TeCB	55	ND		20.0	3.75
2,3,3',4'-/2,3,4,4'-TeCB	56/60	ND		20.0	3.59
3,3',4,5'-TeCB	79	ND		20.0	3.59
3,3',4,5-TeCB	78	ND		20.0	3.59
3,4,4',5-TeCB	81	ND		20.0	3.59
3,3',4,4'-TeCB	77	ND		20.0	5.22
2,2',4,6,6'-PeCB	104	ND		20.0	4.75
2,2',3,6,6'-PeCB	96	ND		20.0	4.75
2,2',4,5'6-PeCB	103	ND		20.0	4.75
2,2',4,4',6-PeCB	100	ND		20.0	4.75
2,2',3,5,6'-PeCB	94	ND		20.0	4.75
2,2',3,5,6-/2,2',3,5',6-/2,2',3',4,6-/2,2',4,5,6'-PeCB	93/95/98/102	ND		20.0	4.75
2,2',3,4,6-PeCB	88/91	ND		20.0	4.75
2,3',4,5',6-PeCB	121	ND		20.0	4.75
2,2',3,3',6-/2,2',3,5,5'-PeCB	84/92	ND		20.0	3.46
2,2',3,4,6'-PeCB	89	ND		20.0	3.46
2,2',3,4',5-/2,2',4,5,5'-PeCB	90/101	ND		20.0	3.46
2,3,3',5',6-PeCB	113	ND		20.0	3.46
2,2',4,4',5-PeCB	99	ND		20.0	3.46
2,2',3,3',5-PeCB	83	ND		20.0	3.46
2,3,3',5,6-/2,3',4,4',6-PeCB	112/119	ND		20.0	3.46
2,3,3',4,6-PeCB	109	ND		20.0	3.46
2,2',3',4,5-PeCB	97	ND		20.0	3.46
2,2',3,4,5-PeCB	86	ND		20.0	3.46
2,2',3,4,5'-/2,3,4',5,6-/2',3,4,5,6'-PeCB	87/117/125	ND		20.0	3.46
2,3,3',5,5'-/2,3,4,4',6-PeCB	111/115	ND		20.0	3.46
2,2',3,4,4'-/2,3,4,5,6-PeCB	85/116	ND		20.0	3.46
2,3',4,5,5'-PeCB	120	ND		20.0	3.46
2-3,3',4',6-PeCB	110	ND		20.0	3.46

Sample ID: Method Blank

		Ceres ID:	0-3442-MB		**Date Received:**	NA
Project:	A5C1035	**QC Batch #:**	3442		**Date Extracted:**	14-Mar-25
Matrix:	Aqueous	**Sample Size:**	1.000	L	**Analyzed Date:**	15-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2,2',3,3',4-PeCB	82	ND		20.0	3.46
2',3,4,5,5'-PeCB	124	ND		20.0	3.46
2,3,3',4',5-/2,3,3',4,5'-PeCB	107/108	ND		20.0	3.46
2,3',4,4',5'-PeCB	123	ND		20.0	3.46
2,3,3',4,5-/2,3',4,4',5-PeCB	106/118	ND		20.0	5.58
2,3,4,4',5-PeCB	114	ND		20.0	3.25
2',3,3',4,5-PeCB	122	ND		20.0	3.25
2,3,3',4,4'-PeCB	105	ND		20.0	4.87
3,3',4,5,5'-PeCB	127	ND		20.0	4.87
3,3',4,4',5-PeCB	126	ND		20.0	5.73
2,2',4,4',6,6'-HxCB	155	ND		20.0	4.86
2,2',3,4',6,6'-HxCB	150	ND		20.0	4.86
2,2',3,5,6,6'-HxCB	152	ND		20.0	4.86
2,2',3,4,6,6'-HxCB	145	ND		20.0	4.86
2,2',3,3',6,6'-HxCB	136	ND		20.0	4.86
2,2',3,4',5,6'-HxCB	148	ND		20.0	4.86
2,2',4,4',5',6-HxCB	154	ND		20.0	4.86
2,2',3,5,5',6-HxCB	151	ND		20.0	4.86
2,2',3,3',5,6'-HxCB	135	ND		20.0	4.86
2,2',3,4,5',6-HxCB	144	ND		20.0	4.86
2,2',3,4',5,6-HxCB	147	ND		20.0	4.86
2,2',3,4,4',6-/2,2',3,4',5',6-HxCB	139/149	ND		20.0	4.86
2,2',3,4,4',6'-HxCB	140	ND		20.0	4.86
2,2',3,3',5,6-/2,2',3,4,5,6'-HxCB	134/143	ND		20.0	5.19
2,2',3,3',4,6-/2,2',3,4,5,6-HxCB	131/142	ND		20.0	5.19
2,2',3,3',5,5'-HxCB	133	ND		20.0	5.19
2,2',3,3',4,6'-/2,2',3,4',5,5'-HxCB	132/146	ND		20.0	5.19
2,3,3',4,5',6-/2,3,3',5,5',6-HxCB	161/165	ND		20.0	5.19
2,2',4,4',5,5'-HxCB	153	ND		20.0	5.19
2,3',4,4',5',6-HxCB	168	ND		20.0	5.19
2,2',3,4,5,5'-HxCB	141	ND		20.0	5.19
2,2',3,4,4',5-HxCB	137	ND		20.0	5.19
2,2',3,3',4,5'-HxCB	130	ND		20.0	5.19
2,2',3,4,4',5-/2,3,3',4',5,6-/2,3,3',4',5',6-HxCB	138/163/164	ND		20.0	5.19
2,3,3',4,4',6-/2,3,3',4,5,6-HxCB	158/160	ND		20.0	5.19
2,2',3,3',4,5-HxCB	129	ND		20.0	5.19
2,3,4,4',5,6-HxCB	166	ND		20.0	5.19
2,3,3',4,5,5'-HxCB	159	ND		20.0	5.19
2,2',3,3',4,4'-/2,3,3',4',5,5'-HxCB	128/162	ND		20.0	5.19
2,3',4,4',5,5'-HxCB	167	ND		20.0	5.19
2,3,3',4,4',5-HxCB	156	ND		20.0	4.13
2,3,3',4,4',5'-HxCB	157	ND		20.0	6.07
3,3',4,4',5,5'-HxCB	169	ND		20.0	5.20

Sample ID: Method Blank

		Ceres ID:	0-3442-MB	**Date Received:**	NA
Project:	A5C1035	**QC Batch #:**	3442	**Date Extracted:**	14-Mar-25
Matrix:	Aqueous	**Sample Size:**	1.000 L	**Analyzed Date:**	15-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2,2',3,4',5,6,6'-HpCB	188	ND		20.0	5.69
2,2',3,4,4',6,6'-HpCB	184	ND		20.0	5.69
2,2',3,3',5,6,6'-HpCB	179	ND		20.0	5.69
2,2',3,3',4,6,6'-HpCB	176	ND		20.0	5.69
2,2',3,4,5,6,6'-HpCB	186	ND		20.0	5.69
2,2',3,3',5,5',6-HpCB	178	ND		20.0	5.69
2,2',3,3',4,5',6-HpCB	175	ND		20.0	5.69
2,2',3,4,4',5,6'-/2,2',3,4',5,5',6-HpCB	182/187	ND		20.0	5.69
2,2',3,4,4',5',6-HpCB	183	ND		20.0	5.69
2,2',3,4,5,5',6-HpCB	185	ND		20.0	3.69
2,2',3,3',4,5,6'-HpCB	174	ND		20.0	3.69
2,2',3,4,4',5,6-HpCB	181	ND		20.0	3.69
2,2',3,3',4',5,6-HpCB	177	ND		20.0	3.69
2,2',3,3',4,4',6-HpCB	171	ND		20.0	3.69
2,2',3,3',4,5,6-HpCB	173	ND		20.0	3.69
2,2',3,3',4,5,5'-HpCB	172	ND		20.0	3.69
2,3,3',4,5,5',6-HpCB	192	ND		20.0	3.69
2,2',3,4,4',5,5'-HpCB	180	ND		20.0	3.69
2,3,3',4',5,5',6-HpCB	193	ND		20.0	3.69
2,3,3',4,4',5',6-HpCB	191	ND		20.0	3.69
2,2',3,3',4,4',5-HpCB	170	ND		20.0	3.69
2,3,3',4,4',5,6-HpCB	190	ND		20.0	3.69
2,3,3',4,4',5,5'-HpCB	189	ND		20.0	3.69
2,2',3,3',5,5',6,6'-OcCB	202	ND		20.0	4.31
2,2',3,3',4,5',6,6'-OcCB	201	ND		20.0	4.31
2,2',3,4,4',5,6,6'-OcCB	204	ND		20.0	4.31
2,2',3,3',4,4',6,6'-OcCB	197	ND		20.0	4.31
2,2',3,3',4,5,6,6'-OcCB	200	ND		20.0	4.31
2,2',3,3',4,5,5',6-OcCB	198	ND		20.0	4.31
2,2',3,3',4,5,5',6'-OcCB	199	ND		20.0	4.31
2,2',3,3',4,4',5,6'-/2,2',3,4,4',5,5',6-OcCB	196/203	ND		20.0	4.31
2,2',3,3',4,4',5,6-OcCB	195	ND		20.0	7.16
2,2',3,3',4,4',5,5'-OcCB	194	ND		20.0	7.16
2,3,3',4,4',5,5',6-OcCB	205	ND		20.0	7.16
2,2',3,3',4,5,5',6,6'-NoCB	208	ND		20.0	3.75
2,2',3,3',4,4',5,6,6'-NoCB	207	ND		20.0	3.75
2,2',3,3',4,4',5,5',6-NoCB	206	ND		20.0	5.61
Decachlorobiphenyl	209	ND		20.0	4.14

Sample ID: Method Blank

		Ceres ID:	0-3442-MB	**Date Received:**	NA
Project:	A5C1035	**QC Batch #:**	3442	**Date Extracted:**	14-Mar-25
Matrix:	Aqueous	**Sample Size:**	1.000 L	**Analyzed Date:**	15-Mar-25

Totals	**Chlorination Level**	**Conc. (pg/L)**	**Qual.**	**RL**
Monochlorobiphenyl	MoCB	0		20.0
Dichlorobiphenyl	DiCB	0		20.0
Trichlorobiphenyl	TrCB	0		20.0
Tetrachlorobiphenyl	TeCB	0		20.0
Pentachlorobiphenyl	PeCB	0		20.0
Hexachlorobiphenyl	HxCB	0		20.0
Heptachlorobiphenyl	HpCB	0		20.0
Octachlorobiphenyl	OcCB	0		20.0
Nonachlorobiphenyl	NoCB	0		20.0
Decachlorobiphenyl	DeCB	ND		20.0

Labeled Standards	**Congener #**	**% Rec.**	**Limits**
$^{13}C_{12}$-2-MoCB	1	133	5-145
$^{13}C_{12}$-4-MoCB	3	117	5-145
$^{13}C_{12}$-2,2'-DiCB	4	107	5-145
$^{13}C_{12}$-4,4'-DiCB	15	87.1	5-145
$^{13}C_{12}$-2,2',6-TrCB	19	142	5-145
$^{13}C_{12}$-3,4,4'-TrCB	37	46.3	5-145
$^{13}C_{12}$-2,2',6,6'-TeCB	54	54.4	5-145
$^{13}C_{12}$-3,4,4',5-TeCB	81	99.2	10-145
$^{13}C_{12}$-3,3',4,4'-TeCB	77	96.4	10-145
$^{13}C_{12}$-2,2',4,6,6'-PeCB	104	93.8	10-145
$^{13}C_{12}$-2,3',4,4',5'-PeCB	123	101	10-145
$^{13}C_{12}$-2,3',4,4',5-PeCB	118	101	10-145
$^{13}C_{12}$-2,3,4,4',5-PeCB	114	62.1	10-145
$^{13}C_{12}$-2,3,3',4,4'-PeCB	105	63.8	10-145
$^{13}C_{12}$-3,3',4,4',5-PeCB	126	58.9	10-145
$^{13}C_{12}$-2,2',4,4',6,6'-HxCB	155	127	10-145
$^{13}C_{12}$-2,3',4,4',5,5'-HxCB	167	95.3	10-145
$^{13}C_{12}$-2,3,3',4,4',5-HxCB	156	95.5	10-145
$^{13}C_{12}$-2,3,3',4,4',5'-HxCB	157	92.1	10-145
$^{13}C_{12}$-3,3',4,4',5,5'-HxCB	169	93.0	10-145
$^{13}C_{12}$-2,2',3,4',5,6,6'-HpCB	188	113	10-145
$^{13}C_{12}$-2,3,3',4,4',5,5'-HpCB	189	122	10-145
$^{13}C_{12}$-2,2',3,3',5,5',6,6'-OcCB	202	135	10-145
$^{13}C_{12}$-2,3,3',4,4',5,5',6-OcCB	205	92.4	10-145
$^{13}C_{12}$-2,2',3,3',4,5,5',6,6'-NoCB	208	98.5	10-145
$^{13}C_{12}$-2,2',3,3',4,4',5,5',6-NoCB	206	128	10-145
$^{13}C_{12}$-Decachlorobiphenyl	209	134	10-145
Cleanup Standards			
$^{13}C_{12}$-2,4,4'-TrCB	28	49.6	5-145
$^{13}C_{12}$-2,3,3',5,5'-PeCB	111	107	10-145
$^{13}C_{12}$-2,2',3,3',5,5',6-HpCB	178	117	10-145

Sample ID: **Ongoing Precision and Recovery (OPR)**

		Ceres ID:	0-3442-OPR	**Date Received:**	NA
Project:	A5C1035	**QC Batch #:**	3442	**Date Extracted:**	14-Mar-25
Matrix:	Aqueous	**Sample Size:**	1.000 L	**Analyzed Date:**	15-Mar-25

Analyte	**Congener #**	**Units**	**Conc. Found**	**Limits**
2-MoCB	1	ng/mL	32.6	30-67.5
4-MoCB	3	ng/mL	32.3	30-67.5
2,2'-/2,6-DiCB	4/10	ng/mL	77.5	60-135
4,4'-DiCB	15	ng/mL	37.8	30-67.5
2,2',6-TrCB	19	ng/mL	38.8	30-67.5
3,4,4'-TrCB	37	ng/mL	37.1	30-67.5
2,2',6,6'-TeCB	54	ng/mL	55.6	30-67.5
3,4,4',5-TeCB	81	ng/mL	39.0	30-67.5
3,3',4,4'-TeCB	77	ng/mL	43.7	30-67.5
2,2',4,6,6'-PeCB	104	ng/mL	39.6	30-67.5
2,3',4,4',5'-PeCB	123	ng/mL	39.4	30-67.5
2,3,3',4,5-/2,3',4,4',5-PeCB	106/118	ng/mL	80.4	60-135
2,3,4,4',5-PeCB	114	ng/mL	42.1	30-67.5
2,3,3',4,4'-PeCB	105	ng/mL	43.0	30-67.5
3,3',4,4',5-PeCB	126	ng/mL	42.4	30-67.5
2,2',4,4',6,6'-HxCB	155	ng/mL	42.2	30-67.5
2,3',4,4',5,5'-HxCB	167	ng/mL	38.1	30-67.5
2,3,3',4,4',5-HxCB	156	ng/mL	37.5	30-67.5
2,3,3',4,4',5'-HxCB	157	ng/mL	39.0	30-67.5
3,3',4,4',5,5'-HxCB	169	ng/mL	370	30-67.5
2,2',3,4',5,6,6'-HpCB	188	ng/mL	38.5	30-67.5
2,3,3',4,4',5,5'-HpCB	189	ng/mL	37.1	30-67.5
2,2',3,3',5,5',6,6'-OcCB	202	ng/mL	41.7	30-67.5
2,3,3',4,4',5,5',6-OcCB	205	ng/mL	45.8	30-67.5
2,2',3,3',4,5,5',6,6'-NoCB	208	ng/mL	43.9	30-67.5
2,2',3,3',4,4',5,5',6-NoCB	206	ng/mL	41.6	30-67.5
Decachlorobiphenyl	209	ng/mL	44.4	30-67.5

Sample ID: **Ongoing Precision and Recovery (OPR)**

		Ceres ID:	0-3442-OPR	**Date Received:**	NA
Project:	A5C1035	**QC Batch #:**	3442	**Date Extracted:**	14-Mar-25
Matrix:	Aqueous	**Sample Size:**	1.000 L	**Analyzed Date:**	15-Mar-25

Labeled Standards	**Congener #**	**Units**		**Limits**
$^{13}C_{12}$-2-MoCB	1	%	97.8	15-145
$^{13}C_{12}$-4-MoCB	3	%	86.6	15-145
$^{13}C_{12}$-2,2'-DiCB	4	%	108	15-145
$^{13}C_{12}$-4,4'-DiCB	15	%	84.2	15-145
$^{13}C_{12}$-2,2',6-TrCB	19	%	141	15-145
$^{13}C_{12}$-3,4,4'-TrCB	37	%	47.9	15-145
$^{13}C_{12}$-2,2',6,6'-TeCB	54	%	60.7	15-145
$^{13}C_{12}$-3,4,4',5-TeCB	81	%	95.8	40-145
$^{13}C_{12}$-3,3',4,4'-TeCB	77	%	96.7	40-145
$^{13}C_{12}$-2,2',4,6,6'-PeCB	104	%	99.1	40-145
$^{13}C_{12}$-2,3',4,4',5'-PeCB	123	%	104	40-145
$^{13}C_{12}$-2,3',4,4',5-PeCB	118	%	105	40-145
$^{13}C_{12}$-2,3,4,4',5-PeCB	114	%	60.3	40-145
$^{13}C_{12}$-2,3,3',4,4'-PeCB	105	%	60.7	40-145
$^{13}C_{12}$-3,3',4,4',5-PeCB	126	%	59.4	40-145
$^{13}C_{12}$-2,2',4,4',6,6'-HxCB	155	%	133	40-145
$^{13}C_{12}$-2,3',4,4',5,5'-HxCB	167	%	90.8	40-145
$^{13}C_{12}$-2,3,3',4,4',5-HxCB	156	%	92.3	40-145
$^{13}C_{12}$-2,3,3',4,4',5'-HxCB	157	%	93.4	40-145
$^{13}C_{12}$-3,3',4,4',5,5'-HxCB	169	%	99.2	40-145
$^{13}C_{12}$-2,2',3,4',5,6,6'-HpCB	188	%	118	40-145
$^{13}C_{12}$-2,3,3',4,4',5,5'-HpCB	189	%	128	40-145
$^{13}C_{12}$-2,2',3,3',5,5',6,6'-OcCB	202	%	144	40-145
$^{13}C_{12}$-2,3,3',4,4',5,5',6-OcCB	205	%	96.5	40-145
$^{13}C_{12}$-2,2',3,3',4,5,5',6,6'-NoCB	208	%	112	40-145
$^{13}C_{12}$-2,2',3,3',4,4',5,5',6-NoCB	206	%	138	40-145
$^{13}C_{12}$-Decachlorobiphenyl	209	%	140	40-145
Cleanup Standards				
$^{13}C_{12}$-2,4,4'-TrCB	28	%	50.3	15-145
$^{13}C_{12}$-2,3,3',5,5'-PeCB	111	%	114	40-145
$^{13}C_{12}$-2,2',3,3',5,5',6-HpCB	178	%	114	40-145

Sample ID: T5-GW-58

Project ID:	A5C1035	**Ceres ID:**	19247-001	**Date Received:**	3/7/2025
Matrix:	Aqueous	**QC Batch #:**	3442	**Date Extracted:**	3/14/2025
Date & Time Sampled:	3/5/2025 11:18	**Sample Size:**	1.030 L	**Analyzed Date:**	3/15/2025

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2-MoCB	1	ND		19.4	2.08
3-MoCB	2	ND		19.4	3.49
4-MoCB	3	ND		19.4	3.49
2,2'-/2,6-DiCB	4/10	ND		19.4	8.07
2,4-/2,5-DiCB	7/9	ND		19.4	8.07
2,3'-DiCB	6	ND		19.4	8.07
2,3-/2,4'-DiCB	5/8	142		19.4	8.07
3,5-DiCB	14	ND		19.4	8.31
3,3'-DiCB	11	1070		19.4	8.31
3,4-/3,4'-DiCB	12/13	ND		19.4	8.31
4,4'-DiCB	15	159		19.4	8.31
2,2',6-TrCB	19	42.8		19.4	4.97
2,4,6-TrCB	30	ND		19.4	4.97
2,2',5-TrCB	18	776		19.4	4.97
2,2',4-TrCB	17	329		19.4	4.97
2,3,6-/2,3',6-TrCB	24/27	81.1		19.4	4.97
2,2',3-/2,4',6-TrCB	16/32	656		19.4	4.97
2',3,5-TrCB	34	ND		19.4	5.86
2,3,5-TrCB	23	ND		19.4	5.86
2,4,5-TrCB	29	ND		19.4	5.86
2,3',5-TrCB	26	341		19.4	5.86
2,3',4-TrCB	25	173		19.4	5.86
2,4',5-TrCB	31	1730		19.4	5.86
2,4,4'-TrCB	28	1490		19.4	5.86
2,3,3'-/2,3,4-/2',3,4-TrCB	20/21/33	1930		19.4	5.86
2,3,4'-TrCB	22	942		19.4	5.86
3,3',5-TrCB	36	ND		19.4	5.86
3,4',5-TrCB	39	ND		19.4	5.86
3,4,5-TrCB	38	36.8		19.4	5.86
3,3',4-TrCB	35	ND		19.4	5.86
3,4,4'-TrCB	37	220		19.4	5.86
2,2',6,6'-TeCB	54	ND		19.4	3.75
2,2',4,6-TeCB	50	ND		19.4	3.75
2,2',5,6'-TeCB	53	184		19.4	3.75
2,2',4,6'-TeCB	51	81.8		19.4	3.75
2,2',3,6-TeCB	45	196		19.4	3.75
2,2',3,6'-TeCB	46	83.2		19.4	3.75
2,2',5,5'-/2,3',4,6-TeCB	52/69	815		19.4	3.75
2,3',5',6-TeCB	73	ND		19.4	3.75
2,2',3-5-/2,2',4,5'-TeCB	43/49	730		19.4	3.75
2,2',4,4'-TeCB	47	316		19.4	3.75
2,2',4,5-/2,4,4',6-TeCB	48/75	252		19.4	3.75
2,3,5,6-TeCB	65	ND		19.4	3.75
2,3,4,6-TeCB	62	ND		19.4	3.75

Sample ID: T5-GW-58

Project:	A5C1035		**Ceres ID:**	19247-001		**Date Received:**	7-Mar-25
Matrix:	Aqueous		**QC Batch #:**	3442		**Date Extracted:**	14-Mar-25
Date & Time Sampled:	3/5/2025	11:18	**Sample Size:**	1.030	L	**Analyzed Date:**	15-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2,2',3,5'-TeCB	44	899		19.4	3.75
2,2',3,4'-/2,3,3',6-TeCB	42/59	410		19.4	3.75
2,2',3,4-/2,3,4',6-/2,3',4',6-/2,3',5,5'-TeCB	41/64/71/72	996		19.4	3.75
2,3',4,5'-TeCB	68	ND		19.4	3.75
2,2',3,3'-TeCB	40	256		19.4	3.75
2,3,3',5-TeCB	57	ND		19.4	3.75
2,3',4,5-TeCB	67	44.0		19.4	3.75
2,3,3',5'-TeCB	58	ND		19.4	3.75
2,3,4',5-TeCB	63	46.6		19.4	3.75
2,4,4',5-TeCB	74	460		19.4	3.75
2,3,4,5-/2,3',4',5-TeCB	61/70	837		19.4	3.75
2,3',4,4'-/2',3,4,5-TeCB	66/76	679		19.4	3.75
3,3',5,5'-TeCB	80	ND		19.4	3.75
2,3,3',4-TeCB	55	ND		19.4	3.75
2,3,3',4'-/2,3,4,4'-TeCB	56/60	542		19.4	3.59
3,3',4,5'-TeCB	79	ND		19.4	3.59
3,3',4,5-TeCB	78	ND		19.4	3.59
3,4,4',5-TeCB	81	ND		19.4	3.59
3,3',4,4'-TeCB	77	30.6		19.4	5.22
2,2',4,6,6'-PeCB	104	ND		19.4	4.75
2,2',3,6,6'-PeCB	96	ND		19.4	4.75
2,2',4,5'6-PeCB	103	ND		19.4	4.75
2,2',4,4',6-PeCB	100	ND		19.4	4.75
2,2',3,5,6'-PeCB	94	ND		19.4	4.75
2,2',3,5,6-/2,2',3,5',6-/2,2',3',4,6-/2,2',4,5,6'-PeCB	93/95/98/102	273		19.4	4.75
2,2',3,4,6-PeCB	88/91	82.4		19.4	4.75
2,3',4,5',6-PeCB	121	ND		19.4	4.75
2,2',3,3',6-/2,2',3,5,5'-PeCB	84/92	124		19.4	3.46
2,2',3,4,6'-PeCB	89	ND		19.4	3.46
2,2',3,4',5-/2,2',4,5,5'-PeCB	90/101	202		19.4	3.46
2,3,3',5',6-PeCB	113	ND		19.4	3.46
2,2',4,4',5-PeCB	99	106		19.4	3.46
2,2',3,3',5-PeCB	83	12.1	J	19.4	3.46
2,3,3',5,6-/2,3',4,4',6-PeCB	112/119	16.3	J	19.4	3.46
2,3,3',4,6-PeCB	109	ND		19.4	3.46
2,2',3',4,5-PeCB	97	75.1		19.4	3.46
2,2',3,4,5-PeCB	86	ND		19.4	3.46
2,2',3,4,5'-/2,3,4',5,6-/2',3,4,5,6'-PeCB	87/117/125	61.0		19.4	3.46
2,3,3',5,5'-/2,3,4,4',6-PeCB	111/115	ND		19.4	3.46
2,2',3,4,4'-/2,3,4,5,6-PeCB	85/116	39.2		19.4	3.46
2,3',4,5,5'-PeCB	120	ND		19.4	3.46
2-3,3',4',6-PeCB	110	169		19.4	3.46

Sample ID: T5-GW-58

Project:	A5C1035	**Ceres ID:**	19247-001	**Date Received:**	7-Mar-25
Matrix:	Aqueous	**QC Batch #:**	3442	**Date Extracted:**	14-Mar-25
Date & Time Sampled:	3/5/2025 11:18	**Sample Size:**	1.030 L	**Analyzed Date:**	15-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2,2',3,3',4-PeCB	82	49.7		19.4	3.46
2',3,4,5,5'-PeCB	124	ND		19.4	3.46
2,3,3',4',5-/2,3,3',4,5'-PeCB	107/108	ND		19.4	3.46
2,3',4,4',5'-PeCB	123	ND		19.4	3.46
2,3,3',4,5-/2,3',4,4',5-PeCB	106/118	86.4		19.4	5.58
2,3,4,4',5-PeCB	114	ND		19.4	3.25
2',3,3',4,5-PeCB	122	ND		19.4	3.25
2,3,3',4,4'-PeCB	105	33.2		19.4	4.87
3,3',4,5,5'-PeCB	127	ND		19.4	4.87
3,3',4,4',5-PeCB	126	ND		19.4	5.73
2,2',4,4',6,6'-HxCB	155	ND		19.4	4.86
2,2',3,4',6,6'-HxCB	150	ND		19.4	4.86
2,2',3,5,6,6'-HxCB	152	ND		19.4	4.86
2,2',3,4,6,6'-HxCB	145	ND		19.4	4.86
2,2',3,3',6,6'-HxCB	136	ND		19.4	4.86
2,2',3,4',5,6'-HxCB	148	ND		19.4	4.86
2,2',4,4',5',6-HxCB	154	ND		19.4	4.86
2,2',3,5,5',6-HxCB	151	38.9		19.4	4.86
2,2',3,3',5,6'-HxCB	135	28.2		19.4	4.86
2,2',3,4,5',6-HxCB	144	ND		19.4	4.86
2,2',3,4',5,6-HxCB	147	ND		19.4	4.86
2,2',3,4,4',6-/2,2',3,4',5',6-HxCB	139/149	104		19.4	4.86
2,2',3,4,4',6'-HxCB	140	ND		19.4	4.86
2,2',3,3',5,6-/2,2',3,4,5,6'-HxCB	134/143	ND		19.4	5.19
2,2',3,3',4,6-/2,2',3,4,5,6-HxCB	131/142	ND		19.4	5.19
2,2',3,3',5,5'-HxCB	133	ND		19.4	5.19
2,2',3,3',4,6'-/2,2',3,4',5,5'-HxCB	132/146	18.2	J	19.4	5.19
2,3,3',4,5',6-/2,3,3',5,5',6-HxCB	161/165	17.7	J	19.4	5.19
2,2',4,4',5,5'-HxCB	153	76.4		19.4	5.19
2,3',4,4',5',6-HxCB	168	ND		19.4	5.19
2,2',3,4,5,5'-HxCB	141	ND		19.4	5.19
2,2',3,4,4',5-HxCB	137	ND		19.4	5.19
2,2',3,3',4,5'-HxCB	130	ND		19.4	5.19
2,2',3,4,4',5-/2,3,3',4',5,6-/2,3,3',4',5',6-HxCB	138/163/164	72.3		19.4	5.19
2,3,3',4,4',6-/2,3,3',4,5,6-HxCB	158/160	ND		19.4	5.19
2,2',3,3',4,5-HxCB	129	ND		19.4	5.19
2,3,4,4',5,6-HxCB	166	ND		19.4	5.19
2,3,3',4,5,5'-HxCB	159	ND		19.4	5.19
2,2',3,3',4,4'-/2,3,3',4',5,5'-HxCB	128/162	22.4		19.4	5.19
2,3',4,4',5,5'-HxCB	167	ND		19.4	5.19
2,3,3',4,4',5-HxCB	156	ND		19.4	4.13
2,3,3',4,4',5'-HxCB	157	ND		19.4	6.07
3,3',4,4',5,5'-HxCB	169	ND		19.4	5.20

Sample ID: T5-GW-58

Project:	A5C1035	**Ceres ID:**	19247-001	**Date Received:**	7-Mar-25
Matrix:	Aqueous	**QC Batch #:**	3442	**Date Extracted:**	14-Mar-25
Date & Time Sampled:	3/5/2025 11:18	**Sample Size:**	1.030 L	**Analyzed Date:**	15-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2,2',3,4',5,6,6'-HpCB	188	ND		19.4	5.69
2,2',3,4,4',6,6'-HpCB	184	ND		19.4	5.69
2,2',3,3',5,6,6'-HpCB	179	ND		19.4	5.69
2,2',3,3',4,6,6'-HpCB	176	ND		19.4	5.69
2,2',3,4,5,6,6'-HpCB	186	ND		19.4	5.69
2,2',3,3',5,5',6-HpCB	178	ND		19.4	5.69
2,2',3,3',4,5',6-HpCB	175	ND		19.4	5.69
2,2',3,4,4',5,6'-/2,2',3,4',5,5',6-HpCB	182/187	38.0		19.4	5.69
2,2',3,4,4',5',6-HpCB	183	24.8		19.4	5.69
2,2',3,4,5,5',6-HpCB	185	ND		19.4	3.69
2,2',3,3',4,5,6'-HpCB	174	ND		19.4	3.69
2,2',3,4,4',5,6-HpCB	181	ND		19.4	3.69
2,2',3,3',4',5,6-HpCB	177	ND		19.4	3.69
2,2',3,3',4,4',6-HpCB	171	ND		19.4	3.69
2,2',3,3',4,5,6-HpCB	173	ND		19.4	3.69
2,2',3,3',4,5,5'-HpCB	172	ND		19.4	3.69
2,3,3',4,5,5',6-HpCB	192	ND		19.4	3.69
2,2',3,4,4',5,5'-HpCB	180	ND		19.4	3.69
2,3,3',4',5,5',6-HpCB	193	ND		19.4	3.69
2,3,3',4,4',5',6-HpCB	191	ND		19.4	3.69
2,2',3,3',4,4',5-HpCB	170	ND		19.4	3.69
2,3,3',4,4',5,6-HpCB	190	ND		19.4	3.69
2,3,3',4,4',5,5'-HpCB	189	ND		19.4	3.69
2,2',3,3',5,5',6,6'-OcCB	202	ND		19.4	4.31
2,2',3,3',4,5',6,6'-OcCB	201	ND		19.4	4.31
2,2',3,4,4',5,6,6'-OcCB	204	ND		19.4	4.31
2,2',3,3',4,4',6,6'-OcCB	197	ND		19.4	4.31
2,2',3,3',4,5,6,6'-OcCB	200	ND		19.4	4.31
2,2',3,3',4,5,5',6-OcCB	198	ND		19.4	4.31
2,2',3,3',4,5,5',6'-OcCB	199	ND		19.4	4.31
2,2',3,3',4,4',5,6'-/2,2',3,4,4',5,5',6-OcCB	196/203	ND		19.4	4.31
2,2',3,3',4,4',5,6-OcCB	195	ND		19.4	7.16
2,2',3,3',4,4',5,5'-OcCB	194	28.1		19.4	7.16
2,3,3',4,4',5,5',6-OcCB	205	ND		19.4	7.16
2,2',3,3',4,5,5',6,6'-NoCB	208	ND		19.4	3.75
2,2',3,3',4,4',5,6,6'-NoCB	207	ND		19.4	3.75
2,2',3,3',4,4',5,5',6-NoCB	206	ND		19.4	5.61
Decachlorobiphenyl	209	ND		19.4	4.14

Sample ID: T5-GW-58

Project:	A5C1035	**Ceres ID:**	19247-001	**Date Received:**	7-Mar-25
Matrix:	Aqueous	**QC Batch #:**	3442	**Date Extracted:**	14-Mar-25
Date & Time Sampled:	3/5/2025 11:18	**Sample Size:**	1.030 L	**Analyzed Date:**	15-Mar-25

Totals	**Chlorination Level**	**Conc. (pg/L)**	**Qual.**	**RL**
Monochlorobiphenyl	MoCB	0		19.4
Dichlorobiphenyl	DiCB	1371		19.4
Trichlorobiphenyl	TrCB	8748		19.4
Tetrachlorobiphenyl	TeCB	7858		19.4
Pentachlorobiphenyl	PeCB	1329		19.4
Hexachlorobiphenyl	HxCB	378		19.4
Heptachlorobiphenyl	HpCB	62.8		19.4
Octachlorobiphenyl	OcCB	28.1		19.4
Nonachlorobiphenyl	NoCB	0		19.4
Decachlorobiphenyl	DeCB	ND		19.4

Labeled Standards	**Congener #**	**% Rec.**	**Limits**
$^{13}C_{12}$-2-MoCB	1	70.0	5-145
$^{13}C_{12}$-4-MoCB	3	66.5	5-145
$^{13}C_{12}$-2,2'-DiCB	4	66.1	5-145
$^{13}C_{12}$-4,4'-DiCB	15	58.9	5-145
$^{13}C_{12}$-2,2',6-TrCB	19	85.9	5-145
$^{13}C_{12}$-3,4,4'-TrCB	37	19.6	5-145
$^{13}C_{12}$-2,2',6,6'-TeCB	54	67.3	5-145
$^{13}C_{12}$-3,4,4',5-TeCB	81	72.6	10-145
$^{13}C_{12}$-3,3',4,4'-TeCB	77	72.1	10-145
$^{13}C_{12}$-2,2',4,6,6'-PeCB	104	58.1	10-145
$^{13}C_{12}$-2,3',4,4',5'-PeCB	123	74.5	10-145
$^{13}C_{12}$-2,3',4,4',5-PeCB	118	73.0	10-145
$^{13}C_{12}$-2,3,4,4',5-PeCB	114	49.9	10-145
$^{13}C_{12}$-2,3,3',4,4'-PeCB	105	50.3	10-145
$^{13}C_{12}$-3,3',4,4',5-PeCB	126	51.4	10-145
$^{13}C_{12}$-2,2',4,4',6,6'-HxCB	155	86.7	10-145
$^{13}C_{12}$-2,3',4,4',5,5'-HxCB	167	65.0	10-145
$^{13}C_{12}$-2,3,3',4,4',5-HxCB	156	61.0	10-145
$^{13}C_{12}$-2,3,3',4,4',5'-HxCB	157	61.7	10-145
$^{13}C_{12}$-3,3',4,4',5,5'-HxCB	169	48.5	10-145
$^{13}C_{12}$-2,2',3,4',5,6,6'-HpCB	188	70.1	10-145
$^{13}C_{12}$-2,3,3',4,4',5,5'-HpCB	189	41.5	10-145
$^{13}C_{12}$-2,2',3,3',5,5',6,6'-OcCB	202	83.8	10-145
$^{13}C_{12}$-2,3,3',4,4',5,5',6-OcCB	205	65.5	10-145
$^{13}C_{12}$-2,2',3,3',4,5,5',6,6'-NoCB	208	76.5	10-145
$^{13}C_{12}$-2,2',3,3',4,4',5,5',6-NoCB	206	64.1	10-145
$^{13}C_{12}$-Decachlorobiphenyl	209	70.4	10-145
Cleanup Standards			
$^{13}C_{12}$-2,4,4'-TrCB	28	48.7	5-145
$^{13}C_{12}$-2,3,3',5,5'-PeCB	111	114	10-145
$^{13}C_{12}$-2,2',3,3',5,5',6-HpCB	178	124	10-145

Sample ID: T5-GW-69

Project ID:	A5C1035	**Ceres ID:**	19247-002	**Date Received:**	3/7/2025
Matrix:	Aqueous	**QC Batch #:**	3442	**Date Extracted:**	3/14/2025
Date & Time Sampled:	3/5/2025 13:58	**Sample Size:**	1.027 L	**Analyzed Date:**	3/15/2025

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2-MoCB	1	ND		19.5	2.08
3-MoCB	2	ND		19.5	3.49
4-MoCB	3	ND		19.5	3.49
2,2'-/2,6-DiCB	4/10	ND		19.5	8.07
2,4-/2,5-DiCB	7/9	ND		19.5	8.07
2,3'-DiCB	6	ND		19.5	8.07
2,3-/2,4'-DiCB	5/8	169		19.5	8.07
3,5-DiCB	14	ND		19.5	8.31
3,3'-DiCB	11	1470		19.5	8.31
3,4-/3,4'-DiCB	12/13	ND		19.5	8.31
4,4'-DiCB	15	207		19.5	8.31
2,2',6-TrCB	19	52.5		19.5	4.97
2,4,6-TrCB	30	ND		19.5	4.97
2,2',5-TrCB	18	1100		19.5	4.97
2,2',4-TrCB	17	463		19.5	4.97
2,3,6-/2,3',6-TrCB	24/27	94.4		19.5	4.97
2,2',3-/2,4',6-TrCB	16/32	953		19.5	4.97
2',3,5-TrCB	34	ND		19.5	5.86
2,3,5-TrCB	23	ND		19.5	5.86
2,4,5-TrCB	29	ND		19.5	5.86
2,3',5-TrCB	26	438		19.5	5.86
2,3',4-TrCB	25	233		19.5	5.86
2,4',5-TrCB	31	2950		19.5	5.86
2,4,4'-TrCB	28	2870		19.5	5.86
2,3,3'-/2,3,4-/2',3,4-TrCB	20/21/33	3110		19.5	5.86
2,3,4'-TrCB	22	1270		19.5	5.86
3,3',5-TrCB	36	ND		19.5	5.86
3,4',5-TrCB	39	ND		19.5	5.86
3,4,5-TrCB	38	ND		19.5	5.86
3,3',4-TrCB	35	ND		19.5	5.86
3,4,4'-TrCB	37	309		19.5	5.86
2,2',6,6'-TeCB	54	ND		19.5	3.75
2,2',4,6-TeCB	50	ND		19.5	3.75
2,2',5,6'-TeCB	53	212		19.5	3.75
2,2',4,6'-TeCB	51	91.6		19.5	3.75
2,2',3,6-TeCB	45	256		19.5	3.75
2,2',3,6'-TeCB	46	117		19.5	3.75
2,2',5,5'-/2,3',4,6-TeCB	52/69	1340		19.5	3.75
2,3',5',6-TeCB	73	ND		19.5	3.75
2,2',3-5-/2,2',4,5'-TeCB	43/49	1330		19.5	3.75
2,2',4,4'-TeCB	47	513		19.5	3.75
2,2',4,5-/2,4,4',6-TeCB	48/75	431		19.5	3.75
2,3,5,6-TeCB	65	ND		19.5	3.75
2,3,4,6-TeCB	62	ND		19.5	3.75

Sample ID: T5-GW-69

Project:	A5C1035		**Ceres ID:**	19247-002		**Date Received:**	7-Mar-25
Matrix:	Aqueous		**QC Batch #:**	3442		**Date Extracted:**	14-Mar-25
Date & Time Sampled:	3/5/2025	13:58	**Sample Size:**	1.027	L	**Analyzed Date:**	15-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2,2',3,5'-TeCB	44	1410		19.5	3.75
2,2',3,4'-/2,3,3',6-TeCB	42/59	595		19.5	3.75
2,2',3,4-/2,3,4',6-/2,3',4',6-/2,3',5,5'-TeCB	41/64/71/72	1370		19.5	3.75
2,3',4,5'-TeCB	68	ND		19.5	3.75
2,2',3,3'-TeCB	40	329		19.5	3.75
2,3,3',5-TeCB	57	ND		19.5	3.75
2,3',4,5-TeCB	67	81.0		19.5	3.75
2,3,3',5'-TeCB	58	ND		19.5	3.75
2,3,4',5-TeCB	63	ND		19.5	3.75
2,4,4',5-TeCB	74	719		19.5	3.75
2,3,4,5-/2,3',4',5-TeCB	61/70	1440		19.5	3.75
2,3',4,4'-/2',3,4,5-TeCB	66/76	1230		19.5	3.75
3,3',5,5'-TeCB	80	ND		19.5	3.75
2,3,3',4-TeCB	55	44.1		19.5	3.75
2,3,3',4'-/2,3,4,4'-TeCB	56/60	923		19.5	3.59
3,3',4,5'-TeCB	79	ND		19.5	3.59
3,3',4,5-TeCB	78	ND		19.5	3.59
3,4,4',5-TeCB	81	12.9	J	19.5	3.59
3,3',4,4'-TeCB	77	58.1		19.5	5.22
2,2',4,6,6'-PeCB	104	ND		19.5	4.75
2,2',3,6,6'-PeCB	96	ND		19.5	4.75
2,2',4,5'6-PeCB	103	ND		19.5	4.75
2,2',4,4',6-PeCB	100	ND		19.5	4.75
2,2',3,5,6'-PeCB	94	ND		19.5	4.75
2,2',3,5,6-/2,2',3,5',6-/2,2',3',4,6-/2,2',4,5,6'-PeCB	93/95/98/102	393		19.5	4.75
2,2',3,4,6-PeCB	88/91	103		19.5	4.75
2,3',4,5',6-PeCB	121	ND		19.5	4.75
2,2',3,3',6-/2,2',3,5,5'-PeCB	84/92	182		19.5	3.46
2,2',3,4,6'-PeCB	89	19.5		19.5	3.46
2,2',3,4',5-/2,2',4,5,5'-PeCB	90/101	350		19.5	3.46
2,3,3',5',6-PeCB	113	ND		19.5	3.46
2,2',4,4',5-PeCB	99	136		19.5	3.46
2,2',3,3',5-PeCB	83	ND		19.5	3.46
2,3,3',5,6-/2,3',4,4',6-PeCB	112/119	18.7	J	19.5	3.46
2,3,3',4,6-PeCB	109	ND		19.5	3.46
2,2',3',4,5-PeCB	97	134		19.5	3.46
2,2',3,4,5-PeCB	86	ND		19.5	3.46
2,2',3,4,5'-/2,3,4',5,6-/2',3,4,5,6'-PeCB	87/117/125	127		19.5	3.46
2,3,3',5,5'-/2,3,4,4',6-PeCB	111/115	ND		19.5	3.46
2,2',3,4,4'-/2,3,4,5,6-PeCB	85/116	60.5		19.5	3.46
2,3',4,5,5'-PeCB	120	ND		19.5	3.46
2-3,3',4',6-PeCB	110	291		19.5	3.46

Sample ID: T5-GW-69

Project:	A5C1035	**Ceres ID:**	19247-002	**Date Received:**	7-Mar-25
Matrix:	Aqueous	**QC Batch #:**	3442	**Date Extracted:**	14-Mar-25
Date & Time Sampled:	3/5/2025 13:58	**Sample Size:**	1.027 L	**Analyzed Date:**	15-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2,2',3,3',4-PeCB	82	52.4		19.5	3.46
2',3,4,5,5'-PeCB	124	ND		19.5	3.46
2,3,3',4',5-/2,3,3',4,5'-PeCB	107/108	ND		19.5	3.46
2,3',4,4',5'-PeCB	123	ND		19.5	3.46
2,3,3',4,5-/2,3',4,4',5-PeCB	106/118	140		19.5	5.58
2,3,4,4',5-PeCB	114	ND		19.5	3.25
2',3,3',4,5-PeCB	122	ND		19.5	3.25
2,3,3',4,4'-PeCB	105	73.1		19.5	4.87
3,3',4,5,5'-PeCB	127	ND		19.5	4.87
3,3',4,4',5-PeCB	126	ND		19.5	5.73
2,2',4,4',6,6'-HxCB	155	ND		19.5	4.86
2,2',3,4',6,6'-HxCB	150	ND		19.5	4.86
2,2',3,5,6,6'-HxCB	152	ND		19.5	4.86
2,2',3,4,6,6'-HxCB	145	ND		19.5	4.86
2,2',3,3',6,6'-HxCB	136	37.0		19.5	4.86
2,2',3,4',5,6'-HxCB	148	ND		19.5	4.86
2,2',4,4',5',6-HxCB	154	ND		19.5	4.86
2,2',3,5,5',6-HxCB	151	40.6		19.5	4.86
2,2',3,3',5,6'-HxCB	135	ND		19.5	4.86
2,2',3,4,5',6-HxCB	144	ND		19.5	4.86
2,2',3,4',5,6-HxCB	147	ND		19.5	4.86
2,2',3,4,4',6-/2,2',3,4',5',6-HxCB	139/149	107		19.5	4.86
2,2',3,4,4',6'-HxCB	140	ND		19.5	4.86
2,2',3,3',5,6-/2,2',3,4,5,6'-HxCB	134/143	ND		19.5	5.19
2,2',3,3',4,6-/2,2',3,4,5,6-HxCB	131/142	ND		19.5	5.19
2,2',3,3',5,5'-HxCB	133	ND		19.5	5.19
2,2',3,3',4,6'-/2,2',3,4',5,5'-HxCB	132/146	ND		19.5	5.19
2,3,3',4,5',6-/2,3,3',5,5',6-HxCB	161/165	31.4		19.5	5.19
2,2',4,4',5,5'-HxCB	153	86.2		19.5	5.19
2,3',4,4',5',6-HxCB	168	ND		19.5	5.19
2,2',3,4,5,5'-HxCB	141	21.4		19.5	5.19
2,2',3,4,4',5-HxCB	137	ND		19.5	5.19
2,2',3,3',4,5'-HxCB	130	ND		19.5	5.19
2,2',3,4,4',5-/2,3,3',4',5,6-/2,3,3',4',5',6-HxCB	138/163/164	101		19.5	5.19
2,3,3',4,4',6-/2,3,3',4,5,6-HxCB	158/160	12.1	J	19.5	5.19
2,2',3,3',4,5-HxCB	129	ND		19.5	5.19
2,3,4,4',5,6-HxCB	166	ND		19.5	5.19
2,3,3',4,5,5'-HxCB	159	ND		19.5	5.19
2,2',3,3',4,4'-/2,3,3',4',5,5'-HxCB	128/162	12.2	J	19.5	5.19
2,3',4,4',5,5'-HxCB	167	ND		19.5	5.19
2,3,3',4,4',5-HxCB	156	13.3	J	19.5	4.13
2,3,3',4,4',5'-HxCB	157	ND		19.5	6.07
3,3',4,4',5,5'-HxCB	169	ND		19.5	5.20

Sample ID: T5-GW-69

Project:	A5C1035	**Ceres ID:**	19247-002	**Date Received:**	7-Mar-25
Matrix:	Aqueous	**QC Batch #:**	3442	**Date Extracted:**	14-Mar-25
Date & Time Sampled:	3/5/2025 13:58	**Sample Size:**	1.027 L	**Analyzed Date:**	15-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2,2',3,4',5,6,6'-HpCB	188	ND		19.5	5.69
2,2',3,4,4',6,6'-HpCB	184	ND		19.5	5.69
2,2',3,3',5,6,6'-HpCB	179	23.6		19.5	5.69
2,2',3,3',4,6,6'-HpCB	176	ND		19.5	5.69
2,2',3,4,5,6,6'-HpCB	186	ND		19.5	5.69
2,2',3,3',5,5',6-HpCB	178	ND		19.5	5.69
2,2',3,3',4,5',6-HpCB	175	ND		19.5	5.69
2,2',3,4,4',5,6'-/2,2',3,4',5,5',6-HpCB	182/187	43.2		19.5	5.69
2,2',3,4,4',5',6-HpCB	183	16.9	J	19.5	5.69
2,2',3,4,5,5',6-HpCB	185	ND		19.5	3.69
2,2',3,3',4,5,6'-HpCB	174	50.0		19.5	3.69
2,2',3,4,4',5,6-HpCB	181	ND		19.5	3.69
2,2',3,3',4',5,6-HpCB	177	ND		19.5	3.69
2,2',3,3',4,4',6-HpCB	171	ND		19.5	3.69
2,2',3,3',4,5,6-HpCB	173	ND		19.5	3.69
2,2',3,3',4,5,5'-HpCB	172	ND		19.5	3.69
2,3,3',4,5,5',6-HpCB	192	ND		19.5	3.69
2,2',3,4,4',5,5'-HpCB	180	164		19.5	3.69
2,3,3',4',5,5',6-HpCB	193	ND		19.5	3.69
2,3,3',4,4',5',6-HpCB	191	ND		19.5	3.69
2,2',3,3',4,4',5-HpCB	170	53.6		19.5	3.69
2,3,3',4,4',5,6-HpCB	190	ND		19.5	3.69
2,3,3',4,4',5,5'-HpCB	189	ND		19.5	3.69
2,2',3,3',5,5',6,6'-OcCB	202	ND		19.5	4.31
2,2',3,3',4,5',6,6'-OcCB	201	ND		19.5	4.31
2,2',3,4,4',5,6,6'-OcCB	204	ND		19.5	4.31
2,2',3,3',4,4',6,6'-OcCB	197	ND		19.5	4.31
2,2',3,3',4,5,6,6'-OcCB	200	ND		19.5	4.31
2,2',3,3',4,5,5',6-OcCB	198	ND		19.5	4.31
2,2',3,3',4,5,5',6'-OcCB	199	ND		19.5	4.31
2,2',3,3',4,4',5,6'-/2,2',3,4,4',5,5',6-OcCB	196/203	ND		19.5	4.31
2,2',3,3',4,4',5,6-OcCB	195	ND		19.5	7.16
2,2',3,3',4,4',5,5'-OcCB	194	26.7		19.5	7.16
2,3,3',4,4',5,5',6-OcCB	205	ND		19.5	7.16
2,2',3,3',4,5,5',6,6'-NoCB	208	ND		19.5	3.75
2,2',3,3',4,4',5,6,6'-NoCB	207	ND		19.5	3.75
2,2',3,3',4,4',5,5',6-NoCB	206	ND		19.5	5.61
Decachlorobiphenyl	209	ND		19.5	4.14

Sample ID: T5-GW-69

Project:	A5C1035	**Ceres ID:**	19247-002	**Date Received:**	7-Mar-25
Matrix:	Aqueous	**QC Batch #:**	3442	**Date Extracted:**	14-Mar-25
Date & Time Sampled:	3/5/2025 13:58	**Sample Size:**	1.027 L	**Analyzed Date:**	15-Mar-25

Totals	**Chlorination Level**	**Conc. (pg/L)**	**Qual.**	**RL**
Monochlorobiphenyl	MoCB	0		19.5
Dichlorobiphenyl	DiCB	1846		19.5
Trichlorobiphenyl	TrCB	13843		19.5
Tetrachlorobiphenyl	TeCB	12503		19.5
Pentachlorobiphenyl	PeCB	2080		19.5
Hexachlorobiphenyl	HxCB	462		19.5
Heptachlorobiphenyl	HpCB	351.3		19.5
Octachlorobiphenyl	OcCB	26.7		19.5
Nonachlorobiphenyl	NoCB	0		19.5
Decachlorobiphenyl	DeCB	ND		19.5

Labeled Standards	**Congener #**	**% Rec.**		**Limits**
$^{13}C_{12}$-2-MoCB	1	78.8		5-145
$^{13}C_{12}$-4-MoCB	3	76.5		5-145
$^{13}C_{12}$-2,2'-DiCB	4	66.6		5-145
$^{13}C_{12}$-4,4'-DiCB	15	62.6		5-145
$^{13}C_{12}$-2,2',6-TrCB	19	83.2		5-145
$^{13}C_{12}$-3,4,4'-TrCB	37	16.5		5-145
$^{13}C_{12}$-2,2',6,6'-TeCB	54	61.7		5-145
$^{13}C_{12}$-3,4,4',5-TeCB	81	65.7		10-145
$^{13}C_{12}$-3,3',4,4'-TeCB	77	67.1		10-145
$^{13}C_{12}$-2,2',4,6,6'-PeCB	104	54.5		10-145
$^{13}C_{12}$-2,3',4,4',5'-PeCB	123	63.6		10-145
$^{13}C_{12}$-2,3',4,4',5-PeCB	118	67.7		10-145
$^{13}C_{12}$-2,3,4,4',5-PeCB	114	52.7		10-145
$^{13}C_{12}$-2,3,3',4,4'-PeCB	105	52.0		10-145
$^{13}C_{12}$-3,3',4,4',5-PeCB	126	52.0		10-145
$^{13}C_{12}$-2,2',4,4',6,6'-HxCB	155	94.8		10-145
$^{13}C_{12}$-2,3',4,4',5,5'-HxCB	167	68.7		10-145
$^{13}C_{12}$-2,3,3',4,4',5-HxCB	156	64.2		10-145
$^{13}C_{12}$-2,3,3',4,4',5'-HxCB	157	72.2		10-145
$^{13}C_{12}$-3,3',4,4',5,5'-HxCB	169	63.5		10-145
$^{13}C_{12}$-2,2',3,4',5,6,6'-HpCB	188	71.6		10-145
$^{13}C_{12}$-2,3,3',4,4',5,5'-HpCB	189	22.2	*	10-145
$^{13}C_{12}$-2,2',3,3',5,5',6,6'-OcCB	202	91.2		10-145
$^{13}C_{12}$-2,3,3',4,4',5,5',6-OcCB	205	55.0		10-145
$^{13}C_{12}$-2,2',3,3',4,5,5',6,6'-NoCB	208	66.8		10-145
$^{13}C_{12}$-2,2',3,3',4,4',5,5',6-NoCB	206	68.2		10-145
$^{13}C_{12}$-Decachlorobiphenyl	209	58.0		10-145
Cleanup Standards				
$^{13}C_{12}$-2,4,4'-TrCB	28	50.6		5-145
$^{13}C_{12}$-2,3,3',5,5'-PeCB	111	128		10-145
$^{13}C_{12}$-2,2',3,3',5,5',6-HpCB	178	132		10-145

Section VI: Sample Tracking

SUBCONTRACT ORDER

Apex Laboratories

A5C1035

AUL 3/5/25

SENDING LABORATORY:

Apex Laboratories
6700 S.W. Sandburg Street
Tigard, OR 97223
Phone: (503) 718-2323
Fax: (503) 336-0745
Project Manager: Darrell Auvil

RECEIVING LABORATORY:

Ceres Analytical Laboratory, Inc
4919 Windplay Drive, Suite 1
El Dorado Hills, CA 95762
Phone :(916) 932-5011
Fax: -9

LCN

Sample Name: T5-GW-58 **Water** **Sampled: 03/05/25 11:18** (A5C1035-01)

Analysis	Due	Expires	Comments
1668C PCB Congeners (SUB)	03/18/25 17:00	03/05/26 11:18	
Containers Supplied:			
(J)1 L Amber Glass - Non Preserved			

Sample Name: T5-GW-69 **Water** **Sampled: 03/05/25 13:58** (A5C1035-02)

Analysis	Due	Expires	Comments
1668C PCB Congeners (SUB)	03/18/25 17:00	03/05/26 13:58	
Containers Supplied:			
(J)1 L Amber Glass - Non Preserved			

Standard TAT

ZA	3/6/25	UPS (Shipper)	
Released By	Date	Received By	Date
UPS (Shipper)		7H	3/7/25 09:40
Released By	Date	Received By	Date

Sample Receipt Check List Logged by: ZZ (initials)

Ceres ID: 19247	Date/Time: 3/7/25 0914
Client Project ID: A5C1035	Received Temp: 1.8 °C Acceptable: Y / N
Chain of Custody Relinquished by signed?	Y / N
Chain of Custody Received by signed?	Y / N
Custody Seals? Present?	Y / N
Intact?	Y / N
NA:	NA
Unlabeled / Illegible Samples	Y / N
Proper Containers:	Y / N
Preservation Acceptable (Chemical or ~~Temperature~~)?	Y / N
Drinking Water, Sodium Thiosulfate present?	Y / N / NA
Residual Cl?	Y / N / NA
Aqueous sample pH: 7.7	NA

List COC discrepancies: ZZ 3/7/25

List Damaged Samples: ZZ 3/7/25

Section VII: Qualifiers/Abbreviations

J	Concentration found below the lower quantitation limit but greater than zero.
B	Analyte present in the associated Method Blank.
E	Concentration found exceeds the Calibration range of the HRGC/HRMS.
D	This analyte concentration was calculated from a dilution.
X	The concentration found is the estimated maximum possible concentration due to chlorinated diphenyl ethers present in the sample.
H	Recovery limits exceeded. See cover letter.
*****	Results taken from dilution.
I	Interference. See cover letter.
Conc.	Concentration Found
DL	Calculated Detection Limit
ND	Non-Detect
% Rec.	Percent Recovery

March 14, 2025 Service Request No:K2502374

Darrell Auvil
Apex Laboratories
6700 SW Sandburg St.
Tigard, OR 97223

Laboratory Results for: A5C1035

Dear Darrell,

Enclosed are the results of the sample(s) submitted to our laboratory March 06, 2025
For your reference, these analyses have been assigned our service request number **K2502374.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3260. You may also contact me via email at Luke.Rahn@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Luke Rahn
Project Manager

ADDRESS 1317 S. 13th Avenue, Kelso, WA 98626
PHONE +1 360 577 7222 | FAX +1 360 636 1068
ALS Group USA, Corp.
dba ALS Environmental

Narrative Documents

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
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www.alsglobal.com

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Client: Apex Laboratories
Project: A5C1035
Sample Matrix: Water

Service Request: K2502374
Date Received: 03/06/2025

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

Two water samples were received for analysis at ALS Environmental on 03/06/2025. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

General Chemistry:

No significant anomalies were noted with this analysis.

Approved by _____ Date 03/14/2025

SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: T5-GW-58			Lab ID: K2502374-001			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Carbon, Total Organic	3.5		0.4	2.5	mg/L	SM 5310 C

CLIENT ID: T5-GW-69			Lab ID: K2502374-002			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Carbon, Total Organic	8.30		0.08	0.50	mg/L	SM 5310 C

Sample Receipt Information

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

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Client: Apex Laboratories **Service Request:**K2502374

Project: A5C1035

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
K2502374-001	T5-GW-58	3/5/2025	1118
K2502374-002	T5-GW-69	3/5/2025	1358

K25023741

SUBCONTRACT ORDER

Apex Laboratories

A5C1035

ALL 3/5/25

LM

SENDING LABORATORY:

Apex Laboratories
6700 S.W. Sandburg Street
Tigard, OR 97223
Phone: (503) 718-2323
Fax: (503) 336-0745
Project Manager: Darrell Auvil

RECEIVING LABORATORY:

ALS Group USA - Kelso
1317 S 13th Avenue
Kelso, WA 98626
Phone :(360) 577-7222
Fax: (360) 636-1068

Sample Name: T5-GW-58 **Sampled: 03/05/25 11:18** (A5C1035-01)

Analysis	Due	Expires	Comments
Total Organic Carbon - H2O (5310C)	03/18/25 17:00	04/02/25 11:18	
Containers Supplied:			
(E)250 mL Poly - Sulfuric (H2SO4)			

Sample Name: T5-GW-69 **Sampled: 03/05/25 13:58** (A5C1035-02)

Analysis	Due	Expires	Comments
Total Organic Carbon - H2O (5310C)	03/18/25 17:00	04/02/25 13:58	
Containers Supplied:			
(E)250 mL Poly - Sulfuric (H2SO4)			

Standard TAT

Released By	Date	Received By	Date
[signature]	3/4/25 825	Diane Prive	3/4/25 825
Diane Prive	3/6/25 1225	[signature]	03/06/25 1225

Cooler Receipt and Preservation Form

PM LR

Client Apex Service Request K25 02374

Received: 03 06 2025 Opened: 03 06 2025 By: AO Unloaded: 03 06 2025 By: AO

1. Samples were received via? *USPS* *Fed Ex* *UPS* *DHL* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) *Cooler* *Box* *Envelope* *Other* _____ *NA*
3. Were custody seals on coolers? NA Y N If yes, how many and where? _____

If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Temp Blank	Sample Temp	IR Gun	Cooler #/COC ID / NA	Out of temp indicate with "X"	PM Notified If out of temp	Tracking Number / NA	Filed
—	3.1	IR06					

4. Was a Temperature Blank present in cooler? NA Y N If yes, notate the temperature in the appropriate column below:

If no, take the temperature of a representative sample bottle contained within the cooler; notate in the column "Sample Temp":

5. Were samples received within the method specified temperature ranges? NA Y N

If no, were they received on ice and same day as collected? If not, notate the cooler # below and notify the PM. NA Y N

If applicable, tissue samples were received: *Frozen* *Partially Thawed* *Thawed*

6. Packing material: *Inserts* *Baggies* *Bubble Wrap* *Gel Packs* *Wet Ice* *Dry Ice* *Sleeves* _____
7. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
8. Were samples received in good condition (unbroken) NA Y N
9. Were all sample labels complete (ie, analysis, preservation, etc.)? NA Y N
10. Did all sample labels and tags agree with custody papers? NA Y N
11. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
12. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* NA Y N
13. Were VOA vials received without headspace? *Indicate in the table below.* NA Y N
14. Was C12/Res negative? NA Y N
15. Were samples received within method specified time limit? If not, notate the error below and notify the PM. NA Y N
16. Were 100mL sterile microbiology bottles filled exactly to the 100mL mark? NA Y N Underfilled Overfilled

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count Bottle Type	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, Resolutions: _____

Q:\ENVIRONMENTAL\1 SOP & Policy Statements\SMO\CRF Update 2025-02-28.docx Updated: BJD 2/28/25

Miscellaneous Forms

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Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated value.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.
H	The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

#	The control limit criteria is not applicable.
J	The result is an estimated value.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.
Q	See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimated value over the calibration range.
J	The result is an estimated value between the MDL and the MRL.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses

Agency	Web Site	Number
Alaska DEH	http://dec.alaska.gov/eh/lab/cs/csapproval.htm	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L16-58-R4
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	http://health.hawaii.gov/	-
ISO 17025	http://www.pjlabs.com/	L16-57
Louisiana DEQ	http://www.deq.louisiana.gov/page/la-lab-accreditation	03016
Maine DHS	http://www.maine.gov/dhhs/	WA01276
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/enforcement/oqa.html	WA005
New York - DOH	https://www.wadsworth.org/regulatory/elap	12060
North Carolina DEQ	https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/EnvironmentalLabCertification/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wyoming (EPA Region 8)	https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water-	-
Kelso Laboratory Website	[illegible]	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.
Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/anlayte is offered by that state.

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client:	Apex Laboratories	**Service Request:**	K2502374
Project:	A5C1035/		

Sample Name:	T5-GW-58	**Date Collected:**	03/5/25
Lab Code:	K2502374-001	**Date Received:**	03/6/25
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
SM 5310 C		MSPECHT

Sample Name:	T5-GW-69	**Date Collected:**	03/5/25
Lab Code:	K2502374-002	**Date Received:**	03/6/25
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
SM 5310 C		MSPECHT

Sample Results

ALS Environmental—Kelso Laboratory
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General Chemistry

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Analytical Report

Client:	Apex Laboratories	**Service Request:**	K2502374
Project:	A5C1035	**Date Collected:**	03/05/25 11:18
Sample Matrix:	Water	**Date Received:**	03/06/25 12:25
Sample Name:	T5-GW-58	**Basis:**	NA
Lab Code:	K2502374-001		

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Carbon, Total Organic	SM 5310 C	**3.5**	mg/L	2.5	0.4	5	03/12/25 14:33	

Analytical Report

Client:	Apex Laboratories	**Service Request:**	K2502374
Project:	A5C1035	**Date Collected:**	03/05/25 13:58
Sample Matrix:	Water	**Date Received:**	03/06/25 12:25
Sample Name:	T5-GW-69	**Basis:**	NA
Lab Code:	K2502374-002		

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Carbon, Total Organic	SM 5310 C	**8.30**	mg/L	0.50	0.08	1	03/12/25 14:33	

QC Summary Forms

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

RIGHT SOLUTIONS | RIGHT PARTNER

General Chemistry

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

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Analytical Report

Client:	Apex Laboratories	**Service Request:**	K2502374
Project:	A5C1035	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	K2502374-MB		

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Carbon, Total Organic	SM 5310 C	ND U	mg/L	0.50	0.08	1	03/12/25 14:33	

Client:	Apex Laboratories	**Service Request:**	K2502374
Project:	A5C1035	**Date Analyzed:**	03/12/25
Sample Matrix:	Water	**Date Extracted:**	NA

Lab Control Sample Summary
Carbon, Total Organic

Analysis Method:	SM 5310 C	**Units:**	mg/L
Prep Method:	None	**Basis:**	NA
		Analysis Lot:	872500

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K2502374-LCS	24.1	25.0	96	83-117

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

ANALYTICAL REPORT

AMENDED REPORT

Thursday, May 29, 2025

Steve Misner
Apex Companies, LLC
15618 SW 72nd Ave
Tigard, OR 97224

RE: A5C1257 - Willamette Cove GW SCE - 1056-17

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 A5C1257, which was received by the laboratory on 3/11/2025 at 5:12:00PM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: DAuvil@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)					
Cooler #1	3.7	degC	Cooler #2	1.9	degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.
All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.

Apex Laboratories

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Darrell Auvil, Client Services Manager

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

ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1257 - 05 29 25 1550**

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-3	A5C1257-01	Water	03/11/25 12:10	03/11/25 17:12
DUP	A5C1257-02	Water	03/11/25 12:50	03/11/25 17:12
IDW Soil	A5C1257-03	Soil	03/11/25 13:50	03/11/25 17:12
IDW Water	A5C1257-04	Water	03/11/25 14:00	03/11/25 17:12

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Darrell Auvil, Client Services Manager

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ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1257 - 05 29 25 1550**

ANALYTICAL CASE NARRATIVE

A5C1257 **Apex Laboratories**

Amended Report Revision 2: This report supersedes all previous reports.

Reporting the Detection Limits (DL)-

The final report has been amended to report PAH data by EPA 8270E, to the detection limits (DL).

Darrell Auvil
Client Services Manager
5/29/2025

Amended Report Revision 1:

Reporting the Detection Limits (DL)-

This report supersedes all previous reports.

The final report has been amended to report Chlorinated Pesticides data by EPA 8081B, to the detection limits (DL).

Darrell Auvil
Client Services Manager
5/9/2025

Apex Laboratories

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Darrell Auvil, Client Services Manager

Apex Laboratories, LLC
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503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1257 - 05 29 25 1550**

ANALYTICAL SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-3 (A5C1257-01RE1)				**Matrix: Water**		**Batch: 25C0849**		**C-05**
2,4'-DDD	ND	0.0102	0.0204	ug/L	1	03/24/25 17:57	EPA 8081B	
2,4'-DDE	ND	0.0102	0.0204	ug/L	1	03/24/25 17:57	EPA 8081B	
2,4'-DDT	ND	0.0102	0.0204	ug/L	1	03/24/25 17:57	EPA 8081B	
4,4'-DDD	ND	0.0102	0.0204	ug/L	1	03/24/25 17:57	EPA 8081B	
4,4'-DDE	ND	0.0102	0.0204	ug/L	1	03/24/25 17:57	EPA 8081B	
4,4'-DDT	ND	0.0102	0.0204	ug/L	1	03/24/25 17:57	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr)		*Recovery:*	*58 %*	*Limits: 25-140 %*	*1*	*03/24/25 17:57*	*EPA 8081B*	
Decachlorobiphenyl (Surr)			*68 %*	*30-135 %*	*1*	*03/24/25 17:57*	*EPA 8081B*	
DUP (A5C1257-02RE1)				**Matrix: Water**		**Batch: 25C0849**		**C-05**
2,4'-DDD	ND	0.0102	0.0204	ug/L	1	03/24/25 18:15	EPA 8081B	
2,4'-DDE	ND	0.0102	0.0204	ug/L	1	03/24/25 18:15	EPA 8081B	
2,4'-DDT	ND	0.0102	0.0204	ug/L	1	03/24/25 18:15	EPA 8081B	
4,4'-DDD	ND	0.0102	0.0204	ug/L	1	03/24/25 18:15	EPA 8081B	
4,4'-DDE	ND	0.0102	0.0204	ug/L	1	03/24/25 18:15	EPA 8081B	
4,4'-DDT	ND	0.0102	0.0204	ug/L	1	03/24/25 18:15	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr)		*Recovery:*	*67 %*	*Limits: 25-140 %*	*1*	*03/24/25 18:15*	*EPA 8081B*	
Decachlorobiphenyl (Surr)			*80 %*	*30-135 %*	*1*	*03/24/25 18:15*	*EPA 8081B*	

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Darrell Auvil, Client Services Manager

Apex Laboratories, LLC
6700 S.W. Sandburg Street
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503-718-2323
ORELAP ID: OR100062

ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: Willamette Cove GW SCE	
15618 SW 72nd Ave	Project Number: 1056-17	Report ID:
Tigard, OR 97224	Project Manager: Steve Misner	A5C1257 - 05 29 25 1550

ANALYTICAL SAMPLE RESULTS

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
IDW Soil (A5C1257-03)				**Matrix: Soil**		**Batch: 25C0540**		
Acenaphthene	**3010**	27.7	55.4	ug/kg dry	5	03/14/25 23:40	EPA 8270E SIM	
Acenaphthylene	**1480**	27.7	55.4	ug/kg dry	5	03/14/25 23:40	EPA 8270E SIM	
Anthracene	**5350**	27.7	55.4	ug/kg dry	5	03/14/25 23:40	EPA 8270E SIM	
Benz(a)anthracene	**12100**	27.7	55.4	ug/kg dry	5	03/14/25 23:40	EPA 8270E SIM	
Benzo(a)pyrene	**16900**	27.7	55.4	ug/kg dry	5	03/14/25 23:40	EPA 8270E SIM	
Benzo(b)fluoranthene	**17100**	27.7	55.4	ug/kg dry	5	03/14/25 23:40	EPA 8270E SIM	
Benzo(k)fluoranthene	**5240**	27.7	55.4	ug/kg dry	5	03/14/25 23:40	EPA 8270E SIM	**M-05**
Benzo(g,h,i)perylene	**10500**	27.7	55.4	ug/kg dry	5	03/14/25 23:40	EPA 8270E SIM	
Chrysene	**17000**	27.7	55.4	ug/kg dry	5	03/14/25 23:40	EPA 8270E SIM	
Dibenz(a,h)anthracene	**2100**	27.7	55.4	ug/kg dry	5	03/14/25 23:40	EPA 8270E SIM	
Fluorene	**2670**	27.7	55.4	ug/kg dry	5	03/14/25 23:40	EPA 8270E SIM	
Indeno(1,2,3-cd)pyrene	**9280**	27.7	55.4	ug/kg dry	5	03/14/25 23:40	EPA 8270E SIM	
1-Methylnaphthalene	**2850**	27.7	55.4	ug/kg dry	5	03/14/25 23:40	EPA 8270E SIM	
2-Methylnaphthalene	**3380**	27.7	55.4	ug/kg dry	5	03/14/25 23:40	EPA 8270E SIM	
Naphthalene	**5760**	27.7	55.4	ug/kg dry	5	03/14/25 23:40	EPA 8270E SIM	
Dibenzofuran	**497**	27.7	55.4	ug/kg dry	5	03/14/25 23:40	EPA 8270E SIM	
Surrogate: 2-Fluorobiphenyl (Surr)		*Recovery:*	*82 %*	*Limits: 44-120 %*	*5*	*03/14/25 23:40*	*EPA 8270E SIM*	
p-Terphenyl-d14 (Surr)			*75 %*	*54-127 %*	*5*	*03/14/25 23:40*	*EPA 8270E SIM*	
IDW Soil (A5C1257-03RE1)				**Matrix: Soil**		**Batch: 25C0540**		
Fluoranthene	**23800**	277	554	ug/kg dry	50	03/14/25 17:46	EPA 8270E SIM	
Phenanthrene	**22300**	277	554	ug/kg dry	50	03/14/25 17:46	EPA 8270E SIM	
Pyrene	**33200**	277	554	ug/kg dry	50	03/14/25 17:46	EPA 8270E SIM	
IDW Water (A5C1257-04)				**Matrix: Water**		**Batch: 25C0730**		**DCNT**
Acenaphthene	**5.31**	0.0204	0.0408	ug/L	1	03/18/25 19:16	EPA 8270E SIM	
Acenaphthylene	**1.00**	0.0204	0.0408	ug/L	1	03/18/25 19:16	EPA 8270E SIM	
Anthracene	**1.38**	0.0204	0.0408	ug/L	1	03/18/25 19:16	EPA 8270E SIM	
Benz(a)anthracene	**0.110**	0.0204	0.0408	ug/L	1	03/18/25 19:16	EPA 8270E SIM	
Benzo(a)pyrene	**0.0625**	0.0204	0.0408	ug/L	1	03/18/25 19:16	EPA 8270E SIM	
Benzo(b)fluoranthene	**0.0610**	0.0204	0.0408	ug/L	1	03/18/25 19:16	EPA 8270E SIM	
Benzo(k)fluoranthene	ND	0.0204	0.0408	ug/L	1	03/18/25 19:16	EPA 8270E SIM	
Benzo(g,h,i)perylene	**0.0547**	0.0204	0.0408	ug/L	1	03/18/25 19:16	EPA 8270E SIM	

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Darrell Auvil, Client Services Manager

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

ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1257 - 05 29 25 1550**

ANALYTICAL SAMPLE RESULTS

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
IDW Water (A5C1257-04)				**Matrix: Water**		**Batch: 25C0730**		**DCNT**
Chrysene	**0.156**	0.0204	0.0408	ug/L	1	03/18/25 19:16	EPA 8270E SIM	
Dibenz(a,h)anthracene	ND	0.0204	0.0408	ug/L	1	03/18/25 19:16	EPA 8270E SIM	
Fluoranthene	**1.61**	0.0204	0.0408	ug/L	1	03/18/25 19:16	EPA 8270E SIM	
Fluorene	**3.28**	0.0204	0.0408	ug/L	1	03/18/25 19:16	EPA 8270E SIM	
Indeno(1,2,3-cd)pyrene	**0.0402**	0.0204	0.0408	ug/L	1	03/18/25 19:16	EPA 8270E SIM	**J**
1-Methylnaphthalene	**2.69**	0.0408	0.0816	ug/L	1	03/18/25 19:16	EPA 8270E SIM	
2-Methylnaphthalene	ND	0.0408	0.0816	ug/L	1	03/18/25 19:16	EPA 8270E SIM	
Naphthalene	ND	0.0408	0.0816	ug/L	1	03/18/25 19:16	EPA 8270E SIM	
Phenanthrene	**3.52**	0.0204	0.0408	ug/L	1	03/18/25 19:16	EPA 8270E SIM	
Pyrene	**1.87**	0.0204	0.0408	ug/L	1	03/18/25 19:16	EPA 8270E SIM	
Dibenzofuran	**0.377**	0.0204	0.0408	ug/L	1	03/18/25 19:16	EPA 8270E SIM	
Surrogate: 2-Fluorobiphenyl (Surr)		*Recovery:*	*76 %*	*Limits: 44-120 %*	*1*	*03/18/25 19:16*	*EPA 8270E SIM*	
p-Terphenyl-d14 (Surr)			*53 %*	*50-134 %*	*1*	*03/18/25 19:16*	*EPA 8270E SIM*	

Apex Laboratories

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Darrell Auvil, Client Services Manager

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

ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: Willamette Cove GW SCE	
15618 SW 72nd Ave	Project Number: 1056-17	Report ID:
Tigard, OR 97224	Project Manager: Steve Misner	A5C1257 - 05 29 25 1550

ANALYTICAL SAMPLE RESULTS

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-3 (A5C1257-01)				**Matrix: Water**		**Batch: 25C0446**		**DCNT**
Acenaphthene	**0.828**	0.0187	0.0373	ug/L	1	03/12/25 20:21	EPA 8270E LVI	
Acenaphthylene	**0.0457**	0.0187	0.0373	ug/L	1	03/12/25 20:21	EPA 8270E LVI	
Anthracene	**0.0546**	0.0187	0.0373	ug/L	1	03/12/25 20:21	EPA 8270E LVI	
Benz(a)anthracene	**0.0145**	0.00934	0.0187	ug/L	1	03/12/25 20:21	EPA 8270E LVI	**J**
Benzo(a)pyrene	ND	0.00934	0.0187	ug/L	1	03/12/25 20:21	EPA 8270E LVI	
Benzo(b)fluoranthene	ND	0.0187	0.0187	ug/L	1	03/12/25 20:21	EPA 8270E LVI	
Benzo(k)fluoranthene	ND	0.00934	0.0187	ug/L	1	03/12/25 20:21	EPA 8270E LVI	
Benzo(g,h,i)perylene	ND	0.0187	0.0373	ug/L	1	03/12/25 20:21	EPA 8270E LVI	
Chrysene	**0.0140**	0.00934	0.0187	ug/L	1	03/12/25 20:21	EPA 8270E LVI	**J**
Dibenz(a,h)anthracene	ND	0.00934	0.0187	ug/L	1	03/12/25 20:21	EPA 8270E LVI	
Fluoranthene	**0.0808**	0.0187	0.0373	ug/L	1	03/12/25 20:21	EPA 8270E LVI	
Fluorene	**0.139**	0.0187	0.0373	ug/L	1	03/12/25 20:21	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	ND	0.00934	0.0187	ug/L	1	03/12/25 20:21	EPA 8270E LVI	
1-Methylnaphthalene	ND	0.0373	0.0747	ug/L	1	03/12/25 20:21	EPA 8270E LVI	
2-Methylnaphthalene	ND	0.0373	0.0747	ug/L	1	03/12/25 20:21	EPA 8270E LVI	
Naphthalene	ND	0.117	0.117	ug/L	1	03/12/25 20:21	EPA 8270E LVI	R-02
Phenanthrene	**0.270**	0.0373	0.0747	ug/L	1	03/12/25 20:21	EPA 8270E LVI	
Pyrene	**0.0952**	0.0187	0.0373	ug/L	1	03/12/25 20:21	EPA 8270E LVI	
Dibenzofuran	ND	0.0187	0.0373	ug/L	1	03/12/25 20:21	EPA 8270E LVI	
Surrogate: Acenaphthylene-d8 (Surr)		*Recovery:*	*83 %*	*Limits:*	*78-134 %*	*03/12/25 20:21*	*EPA 8270E LVI*	
Benzo(a)pyrene-d12 (Surr)			*100 %*		*80-132 %*	*03/12/25 20:21*	*EPA 8270E LVI*	
DUP (A5C1257-02)				**Matrix: Water**		**Batch: 25C0446**		**DCNT**
Acenaphthene	**1.55**	0.0195	0.0390	ug/L	1	03/12/25 20:53	EPA 8270E LVI	
Acenaphthylene	**0.0595**	0.0195	0.0390	ug/L	1	03/12/25 20:53	EPA 8270E LVI	
Anthracene	**0.0682**	0.0195	0.0390	ug/L	1	03/12/25 20:53	EPA 8270E LVI	
Benz(a)anthracene	**0.0122**	0.00975	0.0195	ug/L	1	03/12/25 20:53	EPA 8270E LVI	**J**
Benzo(a)pyrene	ND	0.00975	0.0195	ug/L	1	03/12/25 20:53	EPA 8270E LVI	
Benzo(b)fluoranthene	ND	0.0195	0.0195	ug/L	1	03/12/25 20:53	EPA 8270E LVI	
Benzo(k)fluoranthene	ND	0.00975	0.0195	ug/L	1	03/12/25 20:53	EPA 8270E LVI	
Benzo(g,h,i)perylene	ND	0.0195	0.0390	ug/L	1	03/12/25 20:53	EPA 8270E LVI	
Chrysene	**0.0185**	0.00975	0.0195	ug/L	1	03/12/25 20:53	EPA 8270E LVI	**J**
Dibenz(a,h)anthracene	ND	0.00975	0.0195	ug/L	1	03/12/25 20:53	EPA 8270E LVI	

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Darrell Auvil, Client Services Manager

Apex Laboratories, LLC
6700 S.W. Sandburg Street
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503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1257 - 05 29 25 1550**

ANALYTICAL SAMPLE RESULTS

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DUP (A5C1257-02)				**Matrix: Water**		**Batch: 25C0446**		**DCNT**
Fluoranthene	**0.0990**	0.0195	0.0390	ug/L	1	03/12/25 20:53	EPA 8270E LVI	
Fluorene	**0.211**	0.0195	0.0390	ug/L	1	03/12/25 20:53	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	ND	0.00975	0.0195	ug/L	1	03/12/25 20:53	EPA 8270E LVI	
1-Methylnaphthalene	ND	0.0390	0.0780	ug/L	1	03/12/25 20:53	EPA 8270E LVI	
2-Methylnaphthalene	ND	0.0390	0.0780	ug/L	1	03/12/25 20:53	EPA 8270E LVI	
Naphthalene	ND	0.110	0.110	ug/L	1	03/12/25 20:53	EPA 8270E LVI	R-02
Phenanthrene	**0.336**	0.0390	0.0780	ug/L	1	03/12/25 20:53	EPA 8270E LVI	
Pyrene	**0.113**	0.0195	0.0390	ug/L	1	03/12/25 20:53	EPA 8270E LVI	
Dibenzofuran	ND	0.0195	0.0390	ug/L	1	03/12/25 20:53	EPA 8270E LVI	
Surrogate: Acenaphthylene-d8 (Surr)		*Recovery:*	*85 %*	*Limits:* *78-134 %*	*1*	*03/12/25 20:53*	*EPA 8270E LVI*	
Benzo(a)pyrene-d12 (Surr)			*100 %*	*80-132 %*	*1*	*03/12/25 20:53*	*EPA 8270E LVI*	

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Darrell Auvil, Client Services Manager

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

ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: Willamette Cove GW SCE	
15618 SW 72nd Ave	Project Number: 1056-17	Report ID:
Tigard, OR 97224	Project Manager: Steve Misner	A5C1257 - 05 29 25 1550

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-3 (A5C1257-01)				**Matrix: Water**				
Batch: 25C1020								
Arsenic	ND	---	1.00	ug/L	1	03/27/25 07:10	EPA 6020B	
Iron	**377**	---	50.0	ug/L	1	03/27/25 07:10	EPA 6020B	
Manganese	**13.8**	---	1.00	ug/L	1	03/27/25 07:10	EPA 6020B	
DUP (A5C1257-02)				**Matrix: Water**				
Batch: 25C1020								
Arsenic	ND	---	1.00	ug/L	1	03/27/25 07:16	EPA 6020B	
Iron	**352**	---	50.0	ug/L	1	03/27/25 07:16	EPA 6020B	
Manganese	**13.8**	---	1.00	ug/L	1	03/27/25 07:16	EPA 6020B	
IDW Soil (A5C1257-03)				**Matrix: Soil**				
Batch: 25C0856								
Arsenic	**5.31**	---	1.35	mg/kg dry	10	03/23/25 19:14	EPA 6020B	
Barium	**357**	---	1.35	mg/kg dry	10	03/23/25 19:14	EPA 6020B	
Cadmium	**0.282**	---	0.270	mg/kg dry	10	03/23/25 19:14	EPA 6020B	
Chromium	**21.8**	---	1.35	mg/kg dry	10	03/23/25 19:14	EPA 6020B	
Lead	**78.1**	---	0.270	mg/kg dry	10	03/23/25 19:14	EPA 6020B	
Mercury	**0.341**	---	0.108	mg/kg dry	10	03/23/25 19:14	EPA 6020B	
Selenium	ND	---	1.35	mg/kg dry	10	03/23/25 19:14	EPA 6020B	
Silver	ND	---	0.270	mg/kg dry	10	03/23/25 19:14	EPA 6020B	
IDW Water (A5C1257-04)				**Matrix: Water**				
Batch: 25D0262								
Arsenic	**1.77**	---	1.00	ug/L	1	04/07/25 22:01	EPA 6020B	
Barium	**48.9**	---	2.00	ug/L	1	04/07/25 22:01	EPA 6020B	
Cadmium	ND	---	0.200	ug/L	1	04/07/25 22:01	EPA 6020B	
Chromium	**3.89**	---	2.00	ug/L	1	04/07/25 22:01	EPA 6020B	
Lead	**6.86**	---	0.200	ug/L	1	04/07/25 22:01	EPA 6020B	
Mercury	ND	---	0.0800	ug/L	1	04/07/25 22:01	EPA 6020B	
Selenium	ND	---	1.00	ug/L	1	04/07/25 22:01	EPA 6020B	
Silver	ND	---	0.200	ug/L	1	04/07/25 22:01	EPA 6020B	

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1257 - 05 29 25 1550**

ANALYTICAL SAMPLE RESULTS

Dissolved Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-3 (A5C1257-01)				**Matrix: Water**				
Batch: 25C0902								
Arsenic	**8.07**	---	1.00	ug/L	1	03/24/25 02:39	EPA 6020B (Diss)	
Manganese	**2660**	---	1.00	ug/L	1	03/24/25 02:39	EPA 6020B (Diss)	
MW-3 (A5C1257-01RE1)				**Matrix: Water**				
Batch: 25C0902								
Iron	**72900**	---	500	ug/L	10	03/24/25 21:14	EPA 6020B (Diss)	
DUP (A5C1257-02)				**Matrix: Water**				
Batch: 25C0902								
Arsenic	**8.18**	---	1.00	ug/L	1	03/24/25 02:44	EPA 6020B (Diss)	
Manganese	**2630**	---	1.00	ug/L	1	03/24/25 02:44	EPA 6020B (Diss)	
DUP (A5C1257-02RE1)				**Matrix: Water**				
Batch: 25C0902								
Iron	**71800**	---	500	ug/L	10	03/24/25 21:19	EPA 6020B (Diss)	
IDW Water (A5C1257-04)				**Matrix: Water**				
Batch: 25D0231								
Arsenic	ND	---	1.00	ug/L	1	04/07/25 19:51	EPA 6020B (Diss)	FILT1
Barium	**23.5**	---	1.00	ug/L	1	04/07/25 19:51	EPA 6020B (Diss)	**FILT1**
Cadmium	ND	---	0.200	ug/L	1	04/07/25 19:51	EPA 6020B (Diss)	FILT1
Chromium	ND	---	2.00	ug/L	1	04/07/25 19:51	EPA 6020B (Diss)	FILT1
Lead	ND	---	0.200	ug/L	1	04/07/25 19:51	EPA 6020B (Diss)	FILT1
Mercury	ND	---	0.0800	ug/L	1	04/07/25 19:51	EPA 6020B (Diss)	FILT1
Selenium	ND	---	1.00	ug/L	1	04/07/25 19:51	EPA 6020B (Diss)	FILT1
Silver	ND	---	0.200	ug/L	1	04/07/25 19:51	EPA 6020B (Diss)	FILT1

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Darrell Auvil, Client Services Manager

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1257 - 05 29 25 1550**

ANALYTICAL SAMPLE RESULTS

Anions by Ion Chromatography

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-3 (A5C1257-01)				**Matrix: Water**				
Batch: 25C0457								
Nitrate-Nitrogen	ND	---	0.250	mg/L	1	03/12/25 21:19	EPA 300.0	
Sulfate	ND	---	1.00	mg/L	1	03/12/25 21:19	EPA 300.0	
DUP (A5C1257-02)				**Matrix: Water**				
Batch: 25C0461								
Nitrate-Nitrogen	ND	---	0.250	mg/L	1	03/12/25 21:40	EPA 300.0	
Sulfate	ND	---	1.00	mg/L	1	03/12/25 21:40	EPA 300.0	

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ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1257 - 05 29 25 1550**

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
IDW Soil (A5C1257-03)				**Matrix: Soil**		**Batch: 25C0459**		
% Solids	**79.0**	---	1.00	%	1	03/13/25 05:32	EPA 8000D	

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15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1257 - 05 29 25 1550**

QUALITY CONTROL (QC) SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25C0849 - EPA 3510C (Neutral pH)/3640A (GPC)							**Water**					
Blank (25C0849-BLK1)			Prepared: 03/13/25 11:18		Analyzed: 03/24/25 14:30							**C-05**
EPA 8081B												
2,4'-DDD	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
2,4'-DDE	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
2,4'-DDT	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
4,4'-DDD	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
4,4'-DDE	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
4,4'-DDT	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 39 %*		*Limits: 25-140 %*				*Dilution: 1x*			
Decachlorobiphenyl (Surr)			*67 %*		*30-135 %*				*"*			
LCS (25C0849-BS1)			Prepared: 03/13/25 11:18		Analyzed: 03/24/25 14:47							**C-05**
EPA 8081B												
2,4'-DDD	0.530	0.0100	0.0200	ug/L	1	0.500	---	106	66-120%	---	---	
2,4'-DDE	0.480	0.0100	0.0200	ug/L	1	0.500	---	96	55-120%	---	---	
2,4'-DDT	0.551	0.0100	0.0200	ug/L	1	0.500	---	110	62-127%	---	---	
4,4'-DDD	0.512	0.0100	0.0200	ug/L	1	0.500	---	102	56-143%	---	---	
4,4'-DDE	0.475	0.0100	0.0200	ug/L	1	0.500	---	95	57-135%	---	---	
4,4'-DDT	0.509	0.0100	0.0200	ug/L	1	0.500	---	102	51-143%	---	---	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 47 %*		*Limits: 25-140 %*				*Dilution: 1x*			
Decachlorobiphenyl (Surr)			*63 %*		*30-135 %*				*"*			
LCS Dup (25C0849-BSD1)			Prepared: 03/13/25 11:18		Analyzed: 03/24/25 15:04							**C-05, Q-19**
EPA 8081B												
2,4'-DDD	0.548	0.0100	0.0200	ug/L	1	0.500	---	110	66-120%	3	30%	
2,4'-DDE	0.477	0.0100	0.0200	ug/L	1	0.500	---	95	55-120%	0.7	30%	
2,4'-DDT	0.590	0.0100	0.0200	ug/L	1	0.500	---	118	62-127%	7	30%	
4,4'-DDD	0.543	0.0100	0.0200	ug/L	1	0.500	---	109	56-143%	6	30%	
4,4'-DDE	0.483	0.0100	0.0200	ug/L	1	0.500	---	97	57-135%	2	30%	
4,4'-DDT	0.562	0.0100	0.0200	ug/L	1	0.500	---	112	51-143%	10	30%	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 50 %*		*Limits: 25-140 %*				*Dilution: 1x*			
Decachlorobiphenyl (Surr)			*64 %*		*30-135 %*				*"*			

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Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1257 - 05 29 25 1550**

QUALITY CONTROL (QC) SAMPLE RESULTS

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25C0540 - EPA 3546							Soil					
Blank (25C0540-BLK1)			Prepared: 03/13/25 13:56 Analyzed: 03/13/25 16:58									
EPA 8270E SIM												
Acenaphthene	ND	5.00	10.0	ug/kg wet	1	---	---	---	---	---	---	
Acenaphthylene	ND	5.00	10.0	ug/kg wet	1	---	---	---	---	---	---	
Anthracene	ND	5.00	10.0	ug/kg wet	1	---	---	---	---	---	---	
Benz(a)anthracene	ND	5.00	10.0	ug/kg wet	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	5.00	10.0	ug/kg wet	1	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	5.00	10.0	ug/kg wet	1	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	5.00	10.0	ug/kg wet	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	5.00	10.0	ug/kg wet	1	---	---	---	---	---	---	
Chrysene	ND	5.00	10.0	ug/kg wet	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	5.00	10.0	ug/kg wet	1	---	---	---	---	---	---	
Fluoranthene	ND	5.00	10.0	ug/kg wet	1	---	---	---	---	---	---	
Fluorene	ND	5.00	10.0	ug/kg wet	1	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	5.00	10.0	ug/kg wet	1	---	---	---	---	---	---	
1-Methylnaphthalene	ND	5.00	10.0	ug/kg wet	1	---	---	---	---	---	---	
2-Methylnaphthalene	ND	5.00	10.0	ug/kg wet	1	---	---	---	---	---	---	
Naphthalene	ND	5.00	10.0	ug/kg wet	1	---	---	---	---	---	---	
Phenanthrene	ND	5.00	10.0	ug/kg wet	1	---	---	---	---	---	---	
Pyrene	ND	5.00	10.0	ug/kg wet	1	---	---	---	---	---	---	
Dibenzofuran	ND	5.00	10.0	ug/kg wet	1	---	---	---	---	---	---	
Surr: 2-Fluorobiphenyl (Surr)			*Recovery: 85 %*	*Limits: 44-120 %*				*Dilution: 1x*				
p-Terphenyl-d14 (Surr)			*85 %*	*54-127 %*				*"*				
LCS (25C0540-BS1)			Prepared: 03/13/25 13:56 Analyzed: 03/13/25 17:23									
EPA 8270E SIM												
Acenaphthene	757	5.00	10.0	ug/kg wet	1	800	---	95	40-123%	---	---	
Acenaphthylene	768	5.00	10.0	ug/kg wet	1	800	---	96	32-132%	---	---	
Anthracene	796	5.00	10.0	ug/kg wet	1	800	---	99	47-123%	---	---	
Benz(a)anthracene	752	5.00	10.0	ug/kg wet	1	800	---	94	49-126%	---	---	
Benzo(a)pyrene	780	5.00	10.0	ug/kg wet	1	800	---	98	45-129%	---	---	
Benzo(b)fluoranthene	834	5.00	10.0	ug/kg wet	1	800	---	104	45-132%	---	---	
Benzo(k)fluoranthene	824	5.00	10.0	ug/kg wet	1	800	---	103	47-132%	---	---	
Benzo(g,h,i)perylene	821	5.00	10.0	ug/kg wet	1	800	---	103	43-134%	---	---	
Chrysene	768	5.00	10.0	ug/kg wet	1	800	---	96	50-124%	---	---	

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Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1257 - 05 29 25 1550**

QUALITY CONTROL (QC) SAMPLE RESULTS

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25C0540 - EPA 3546							Soil					
LCS (25C0540-BS1)			Prepared: 03/13/25 13:56	Analyzed: 03/13/25 17:23								
Dibenz(a,h)anthracene	842	5.00	10.0	ug/kg wet	1	800	---	105	45-134%	---	---	
Fluoranthene	817	5.00	10.0	ug/kg wet	1	800	---	102	50-127%	---	---	
Fluorene	808	5.00	10.0	ug/kg wet	1	800	---	101	43-125%	---	---	
Indeno(1,2,3-cd)pyrene	804	5.00	10.0	ug/kg wet	1	800	---	101	45-133%	---	---	
1-Methylnaphthalene	755	5.00	10.0	ug/kg wet	1	800	---	94	40-120%	---	---	
2-Methylnaphthalene	748	5.00	10.0	ug/kg wet	1	800	---	94	38-122%	---	---	
Naphthalene	764	5.00	10.0	ug/kg wet	1	800	---	95	35-123%	---	---	
Phenanthrene	778	5.00	10.0	ug/kg wet	1	800	---	97	50-121%	---	---	
Pyrene	833	5.00	10.0	ug/kg wet	1	800	---	104	47-127%	---	---	
Dibenzofuran	759	5.00	10.0	ug/kg wet	1	800	---	95	44-120%	---	---	
Surr: 2-Fluorobiphenyl (Surr)			*Recovery: 87 %*	*Limits: 44-120 %*				*Dilution: 1x*				
p-Terphenyl-d14 (Surr)			*79 %*	*54-127 %*				*"*				
Duplicate (25C0540-DUP1)			Prepared: 03/13/25 13:56	Analyzed: 03/13/25 18:14								
QC Source Sample: Non-SDG (A5B1757-04)												
Acenaphthene	ND	4.72	9.44	ug/kg dry	1	---	ND	---	---	---	30%	
Acenaphthylene	ND	4.72	9.44	ug/kg dry	1	---	ND	---	---	---	30%	
Anthracene	ND	4.72	9.44	ug/kg dry	1	---	ND	---	---	---	30%	
Benz(a)anthracene	ND	4.72	9.44	ug/kg dry	1	---	ND	---	---	---	30%	
Benzo(a)pyrene	ND	4.72	9.44	ug/kg dry	1	---	ND	---	---	---	30%	
Benzo(b)fluoranthene	ND	4.72	9.44	ug/kg dry	1	---	ND	---	---	---	30%	
Benzo(k)fluoranthene	ND	4.72	9.44	ug/kg dry	1	---	ND	---	---	---	30%	
Benzo(g,h,i)perylene	ND	4.72	9.44	ug/kg dry	1	---	ND	---	---	---	30%	
Chrysene	ND	4.72	9.44	ug/kg dry	1	---	ND	---	---	---	30%	
Dibenz(a,h)anthracene	ND	4.72	9.44	ug/kg dry	1	---	ND	---	---	---	30%	
Fluoranthene	ND	4.72	9.44	ug/kg dry	1	---	ND	---	---	---	30%	
Fluorene	ND	4.72	9.44	ug/kg dry	1	---	ND	---	---	---	30%	
Indeno(1,2,3-cd)pyrene	ND	4.72	9.44	ug/kg dry	1	---	ND	---	---	---	30%	
1-Methylnaphthalene	ND	4.72	9.44	ug/kg dry	1	---	ND	---	---	---	30%	
2-Methylnaphthalene	ND	4.72	9.44	ug/kg dry	1	---	ND	---	---	---	30%	
Naphthalene	ND	4.72	9.44	ug/kg dry	1	---	ND	---	---	---	30%	
Phenanthrene	ND	4.72	9.44	ug/kg dry	1	---	ND	---	---	---	30%	
Pyrene	ND	4.72	9.44	ug/kg dry	1	---	ND	---	---	---	30%	
Dibenzofuran	ND	4.72	9.44	ug/kg dry	1	---	ND	---	---	---	30%	

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Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1257 - 05 29 25 1550**

QUALITY CONTROL (QC) SAMPLE RESULTS

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25C0540 - EPA 3546							**Soil**					
Duplicate (25C0540-DUP1)			Prepared: 03/13/25 13:56 Analyzed: 03/13/25 18:14									
QC Source Sample: Non-SDG (A5B1757-04)												
Surr: 2-Fluorobiphenyl (Surr)			*Recovery: 85 %*	*Limits: 44-120 %*			*Dilution: 1x*					
p-Terphenyl-d14 (Surr)			*83 %*	*54-127 %*			*"*					
Matrix Spike (25C0540-MS1)			Prepared: 03/13/25 13:56 Analyzed: 03/13/25 19:04									
QC Source Sample: Non-SDG (A5C1373-14)												
EPA 8270E SIM												
Acenaphthene	699	4.61	9.22	ug/kg dry	1	738	ND	95	40-123%	---	---	
Acenaphthylene	694	4.61	9.22	ug/kg dry	1	738	ND	94	32-132%	---	---	
Anthracene	717	4.61	9.22	ug/kg dry	1	738	ND	97	47-123%	---	---	
Benz(a)anthracene	677	4.61	9.22	ug/kg dry	1	738	ND	92	49-126%	---	---	
Benzo(a)pyrene	698	4.61	9.22	ug/kg dry	1	738	ND	95	45-129%	---	---	
Benzo(b)fluoranthene	719	4.61	9.22	ug/kg dry	1	738	ND	97	45-132%	---	---	
Benzo(k)fluoranthene	740	4.61	9.22	ug/kg dry	1	738	ND	100	47-132%	---	---	
Benzo(g,h,i)perylene	728	4.61	9.22	ug/kg dry	1	738	ND	99	43-134%	---	---	
Chrysene	684	4.61	9.22	ug/kg dry	1	738	ND	93	50-124%	---	---	
Dibenz(a,h)anthracene	701	4.61	9.22	ug/kg dry	1	738	ND	95	45-134%	---	---	
Fluoranthene	737	4.61	9.22	ug/kg dry	1	738	ND	100	50-127%	---	---	
Fluorene	740	4.61	9.22	ug/kg dry	1	738	ND	100	43-125%	---	---	
Indeno(1,2,3-cd)pyrene	709	4.61	9.22	ug/kg dry	1	738	ND	96	45-133%	---	---	
1-Methylnaphthalene	688	4.61	9.22	ug/kg dry	1	738	ND	93	40-120%	---	---	
2-Methylnaphthalene	675	4.61	9.22	ug/kg dry	1	738	ND	91	38-122%	---	---	
Naphthalene	690	4.61	9.22	ug/kg dry	1	738	ND	94	35-123%	---	---	
Phenanthrene	694	4.61	9.22	ug/kg dry	1	738	ND	94	50-121%	---	---	
Pyrene	741	4.61	9.22	ug/kg dry	1	738	ND	100	47-127%	---	---	
Dibenzofuran	698	4.61	9.22	ug/kg dry	1	738	ND	95	44-120%	---	---	
Surr: 2-Fluorobiphenyl (Surr)			*Recovery: 85 %*	*Limits: 44-120 %*			*Dilution: 1x*					
p-Terphenyl-d14 (Surr)			*79 %*	*54-127 %*			*"*					

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ORELAP ID: **OR100062**

Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1257 - 05 29 25 1550**

QUALITY CONTROL (QC) SAMPLE RESULTS

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25C0730 - EPA 3510C (Acid Extraction)												**Water**
Blank (25C0730-BLK1)			Prepared: 03/18/25 14:51		Analyzed: 03/18/25 18:01							
EPA 8270E SIM												
Acenaphthene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Acenaphthylene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Anthracene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Benz(a)anthracene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Chrysene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Fluoranthene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Fluorene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
1-Methylnaphthalene	ND	0.0200	0.0400	ug/L	1	---	---	---	---	---	---	
2-Methylnaphthalene	ND	0.0200	0.0400	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	0.0200	0.0400	ug/L	1	---	---	---	---	---	---	
Phenanthrene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Pyrene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Dibenzofuran	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Surr: 2-Fluorobiphenyl (Surr)			*Recovery: 52 %*		*Limits: 44-120 %*				*Dilution: 1x*			
p-Terphenyl-d14 (Surr)			*57 %*		*50-134 %*				*"*			
LCS (25C0730-BS1)			Prepared: 03/18/25 14:51		Analyzed: 03/18/25 18:26							
EPA 8270E SIM												
Acenaphthene	2.87	0.0100	0.0200	ug/L	1	4.00	---	72	47-122%	---	---	
Acenaphthylene	2.95	0.0100	0.0200	ug/L	1	4.00	---	74	41-130%	---	---	
Anthracene	3.23	0.0100	0.0200	ug/L	1	4.00	---	81	57-123%	---	---	
Benz(a)anthracene	3.24	0.0100	0.0200	ug/L	1	4.00	---	81	58-125%	---	---	
Benzo(a)pyrene	3.39	0.0100	0.0200	ug/L	1	4.00	---	85	54-128%	---	---	
Benzo(b)fluoranthene	3.35	0.0100	0.0200	ug/L	1	4.00	---	84	53-131%	---	---	
Benzo(k)fluoranthene	3.37	0.0100	0.0200	ug/L	1	4.00	---	84	57-129%	---	---	
Benzo(g,h,i)perylene	3.36	0.0100	0.0200	ug/L	1	4.00	---	84	50-134%	---	---	
Chrysene	3.24	0.0100	0.0200	ug/L	1	4.00	---	81	59-123%	---	---	

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ORELAP ID: **OR100062**

Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1257 - 05 29 25 1550**

QUALITY CONTROL (QC) SAMPLE RESULTS

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25C0730 - EPA 3510C (Acid Extraction)							**Water**					
LCS (25C0730-BS1)			Prepared: 03/18/25 14:51		Analyzed: 03/18/25 18:26							
Dibenz(a,h)anthracene	3.63	0.0100	0.0200	ug/L	1	4.00	---	91	51-134%	---	---	
Fluoranthene	3.53	0.0100	0.0200	ug/L	1	4.00	---	88	57-128%	---	---	
Fluorene	3.07	0.0100	0.0200	ug/L	1	4.00	---	77	52-124%	---	---	
Indeno(1,2,3-cd)pyrene	3.35	0.0100	0.0200	ug/L	1	4.00	---	84	52-134%	---	---	
1-Methylnaphthalene	2.69	0.0200	0.0400	ug/L	1	4.00	---	67	41-120%	---	---	
2-Methylnaphthalene	2.62	0.0200	0.0400	ug/L	1	4.00	---	66	40-121%	---	---	
Naphthalene	2.75	0.0200	0.0400	ug/L	1	4.00	---	69	40-121%	---	---	
Phenanthrene	3.15	0.0100	0.0200	ug/L	1	4.00	---	79	59-120%	---	---	
Pyrene	3.60	0.0100	0.0200	ug/L	1	4.00	---	90	57-126%	---	---	
Dibenzofuran	2.93	0.0100	0.0200	ug/L	1	4.00	---	73	53-120%	---	---	
Surr: 2-Fluorobiphenyl (Surr)			*Recovery: 66 %*		*Limits: 44-120 %*				*Dilution: 1x*			
p-Terphenyl-d14 (Surr)			*60 %*		*50-134 %*				*"*			
LCS Dup (25C0730-BSD1)			Prepared: 03/18/25 14:51		Analyzed: 03/18/25 18:51							**Q-19**
EPA 8270E SIM												
Acenaphthene	2.90	0.0100	0.0200	ug/L	1	4.00	---	73	47-122%	0.9	30%	
Acenaphthylene	2.97	0.0100	0.0200	ug/L	1	4.00	---	74	41-130%	0.5	30%	
Anthracene	3.24	0.0100	0.0200	ug/L	1	4.00	---	81	57-123%	0.4	30%	
Benz(a)anthracene	3.19	0.0100	0.0200	ug/L	1	4.00	---	80	58-125%	2	30%	
Benzo(a)pyrene	3.35	0.0100	0.0200	ug/L	1	4.00	---	84	54-128%	1	30%	
Benzo(b)fluoranthene	3.36	0.0100	0.0200	ug/L	1	4.00	---	84	53-131%	0.2	30%	
Benzo(k)fluoranthene	3.31	0.0100	0.0200	ug/L	1	4.00	---	83	57-129%	2	30%	
Benzo(g,h,i)perylene	3.30	0.0100	0.0200	ug/L	1	4.00	---	83	50-134%	2	30%	
Chrysene	3.27	0.0100	0.0200	ug/L	1	4.00	---	82	59-123%	0.7	30%	
Dibenz(a,h)anthracene	3.57	0.0100	0.0200	ug/L	1	4.00	---	89	51-134%	2	30%	
Fluoranthene	3.56	0.0100	0.0200	ug/L	1	4.00	---	89	57-128%	0.9	30%	
Fluorene	3.12	0.0100	0.0200	ug/L	1	4.00	---	78	52-124%	2	30%	
Indeno(1,2,3-cd)pyrene	3.34	0.0100	0.0200	ug/L	1	4.00	---	84	52-134%	0.2	30%	
1-Methylnaphthalene	2.68	0.0200	0.0400	ug/L	1	4.00	---	67	41-120%	0.4	30%	
2-Methylnaphthalene	2.62	0.0200	0.0400	ug/L	1	4.00	---	66	40-121%	0.07	30%	
Naphthalene	2.74	0.0200	0.0400	ug/L	1	4.00	---	68	40-121%	0.6	30%	
Phenanthrene	3.17	0.0100	0.0200	ug/L	1	4.00	---	79	59-120%	0.7	30%	
Pyrene	3.64	0.0100	0.0200	ug/L	1	4.00	---	91	57-126%	1	30%	
Dibenzofuran	2.94	0.0100	0.0200	ug/L	1	4.00	---	74	53-120%	0.4	30%	

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Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1257 - 05 29 25 1550**

QUALITY CONTROL (QC) SAMPLE RESULTS

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25C0730 - EPA 3510C (Acid Extraction)												**Water**
LCS Dup (25C0730-BSD1)				Prepared: 03/18/25 14:51 Analyzed: 03/18/25 18:51								**Q-19**
Surr: 2-Fluorobiphenyl (Surr)	*Recovery: 65 %*		*Limits: 44-120 %*		*Dilution: 1x*							
p-Terphenyl-d14 (Surr)	*58 %*		*50-134 %*		*"*							

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Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1257 - 05 29 25 1550**

QUALITY CONTROL (QC) SAMPLE RESULTS

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25C0446 - EPA 3511 (Bottle Extraction)											**Water**	
Blank (25C0446-BLK1)			Prepared: 03/12/25 08:09 Analyzed: 03/12/25 12:12									
EPA 8270E LVI												
Acenaphthene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Acenaphthylene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Anthracene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Benz(a)anthracene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Chrysene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Fluoranthene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Fluorene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
1-Methylnaphthalene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
2-Methylnaphthalene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
Phenanthrene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
Pyrene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Carbazole	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Dibenzofuran	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Surr: Acenaphthylene-d8 (Surr)			*Recovery: 92 %*		*Limits: 78-134 %*					*Dilution: 1x*		
Benzo(a)pyrene-d12 (Surr)			*96 %*		*80-132 %*					*"*		
LCS (25C0446-BS1)			Prepared: 03/12/25 08:09 Analyzed: 03/12/25 12:45									
EPA 8270E LVI												
Acenaphthene	1.52	0.0160	0.0320	ug/L	1	1.60	---	95	80-120%	---	---	
Acenaphthylene	1.53	0.0160	0.0320	ug/L	1	1.60	---	95	80-124%	---	---	
Anthracene	1.46	0.0160	0.0320	ug/L	1	1.60	---	91	80-123%	---	---	
Benz(a)anthracene	1.58	0.00800	0.0160	ug/L	1	1.60	---	99	80-122%	---	---	
Benzo(a)pyrene	1.65	0.00800	0.0160	ug/L	1	1.60	---	103	80-129%	---	---	
Benzo(b)fluoranthene	1.56	0.00800	0.0160	ug/L	1	1.60	---	98	80-124%	---	---	
Benzo(k)fluoranthene	1.60	0.00800	0.0160	ug/L	1	1.60	---	100	80-125%	---	---	
Benzo(g,h,i)perylene	1.48	0.0160	0.0320	ug/L	1	1.60	---	93	80-120%	---	---	

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15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1257 - 05 29 25 1550**

QUALITY CONTROL (QC) SAMPLE RESULTS

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25C0446 - EPA 3511 (Bottle Extraction)							**Water**					
LCS (25C0446-BS1)			Prepared: 03/12/25 08:09 Analyzed: 03/12/25 12:45									
Chrysene	1.47	0.00800	0.0160	ug/L	1	1.60	---	92	80-120%	---	---	
Dibenz(a,h)anthracene	1.56	0.00800	0.0160	ug/L	1	1.60	---	98	80-120%	---	---	
Fluoranthene	1.51	0.0160	0.0320	ug/L	1	1.60	---	94	80-126%	---	---	
Fluorene	1.71	0.0160	0.0320	ug/L	1	1.60	---	107	77-127%	---	---	
Indeno(1,2,3-cd)pyrene	1.36	0.00800	0.0160	ug/L	1	1.60	---	85	80-121%	---	---	
1-Methylnaphthalene	1.48	0.0320	0.0640	ug/L	1	1.60	---	92	53-148%	---	---	
2-Methylnaphthalene	1.43	0.0320	0.0640	ug/L	1	1.60	---	90	48-150%	---	---	
Naphthalene	1.55	0.0320	0.0640	ug/L	1	1.60	---	97	78-120%	---	---	
Phenanthrene	1.47	0.0320	0.0640	ug/L	1	1.60	---	92	80-120%	---	---	
Pyrene	1.50	0.0160	0.0320	ug/L	1	1.60	---	94	80-125%	---	---	
Carbazole	1.62	0.0160	0.0320	ug/L	1	1.60	---	101	65-141%	---	---	
Dibenzofuran	1.61	0.0160	0.0320	ug/L	1	1.60	---	101	76-121%	---	---	
Surr: Acenaphthylene-d8 (Surr)			*Recovery: 87 %*		*Limits: 78-134 %*			*Dilution: 1x*				
Benzo(a)pyrene-d12 (Surr)			*99 %*		*80-132 %*			*"*				
Matrix Spike (25C0446-MS1)			Prepared: 03/12/25 08:10 Analyzed: 03/12/25 13:50									
QC Source Sample: Non-SDG (A5C1214-06)												
EPA 8270E LVI												
Acenaphthene	87.6	0.359	0.719	ug/L	20	1.80	89.1	**-83**	**80-120%**	---	---	Q-03
Acenaphthylene	8.96	0.359	0.719	ug/L	20	1.80	8.52	**24**	**80-124%**	---	---	Q-03
Anthracene	6.25	0.359	0.719	ug/L	20	1.80	4.44	101	80-123%	---	---	
Benz(a)anthracene	1.96	0.359	0.359	ug/L	20	1.80	ND	109	80-122%	---	---	
Benzo(a)pyrene	1.84	0.180	0.359	ug/L	20	1.80	ND	102	80-129%	---	---	
Benzo(b)fluoranthene	1.69	0.180	0.359	ug/L	20	1.80	ND	94	80-124%	---	---	
Benzo(k)fluoranthene	1.78	0.180	0.359	ug/L	20	1.80	ND	99	80-125%	---	---	
Benzo(g,h,i)perylene	1.61	0.359	0.719	ug/L	20	1.80	ND	90	80-120%	---	---	
Chrysene	1.70	0.180	0.359	ug/L	20	1.80	ND	95	80-120%	---	---	
Dibenz(a,h)anthracene	1.62	0.180	0.359	ug/L	20	1.80	ND	90	80-120%	---	---	
Fluoranthene	3.48	0.359	0.719	ug/L	20	1.80	2.09	**77**	**80-126%**	---	---	Q-03
Fluorene	22.7	0.359	0.719	ug/L	20	1.80	21.4	**74**	**77-127%**	---	---	Q-03
Indeno(1,2,3-cd)pyrene	1.63	0.180	0.359	ug/L	20	1.80	ND	91	80-121%	---	---	
1-Methylnaphthalene	78.7	0.719	1.44	ug/L	20	1.80	79.7	**-56**	**53-148%**	---	---	Q-03
2-Methylnaphthalene	87.8	0.719	1.44	ug/L	20	1.80	90.0	**-123**	**48-150%**	---	---	Q-03
Naphthalene	925	0.719	1.44	ug/L	20	1.80	971	**-2540**	**78-120%**	---	---	E, Q-03

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Darrell Auvil, Client Services Manager

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

Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1257 - 05 29 25 1550**

QUALITY CONTROL (QC) SAMPLE RESULTS

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25C0446 - EPA 3511 (Bottle Extraction)							**Water**					
Matrix Spike (25C0446-MS1)			Prepared: 03/12/25 08:10 Analyzed: 03/12/25 13:50									
QC Source Sample: Non-SDG (A5C1214-06)												
Phenanthrene	22.1	0.719	1.44	ug/L	20	1.80	21.1	**56**	**80-120%**	---	---	Q-03
Pyrene	3.26	0.359	0.719	ug/L	20	1.80	1.79	82	80-125%	---	---	
Carbazole	35.5	0.359	0.719	ug/L	20	1.80	33.8	92	65-141%	---	---	
Dibenzofuran	9.16	0.359	0.719	ug/L	20	1.80	7.75	79	76-121%	---	---	
Surr: Acenaphthylene-d8 (Surr)			*Recovery: % 100 %*	*Limits: 78-134 %*			*Dilution: 20x*					*S-01*
Benzo(a)pyrene-d12 (Surr)			*80-132 %*				*"*					*S-05*
Matrix Spike Dup (25C0446-MSD1)			Prepared: 03/12/25 08:10 Analyzed: 03/12/25 14:23									
QC Source Sample: Non-SDG (A5C1214-06)												
Acenaphthene	88.8	0.351	0.703	ug/L	20	1.76	89.1	**-20**	**80-120%**	1	30%	Q-03
Acenaphthylene	8.69	0.351	0.703	ug/L	20	1.76	8.52	**10**	**80-124%**	3	30%	Q-03
Anthracene	6.24	0.351	0.703	ug/L	20	1.76	4.44	103	80-123%	0.1	30%	
Benz(a)anthracene	1.94	0.351	0.351	ug/L	20	1.76	ND	110	80-122%	0.9	30%	
Benzo(a)pyrene	1.67	0.176	0.351	ug/L	20	1.76	ND	95	80-129%	10	30%	
Benzo(b)fluoranthene	1.70	0.176	0.351	ug/L	20	1.76	ND	96	80-124%	0.4	30%	
Benzo(k)fluoranthene	1.67	0.176	0.351	ug/L	20	1.76	ND	95	80-125%	6	30%	
Benzo(g,h,i)perylene	1.49	0.351	0.703	ug/L	20	1.76	ND	85	80-120%	7	30%	
Chrysene	1.62	0.176	0.351	ug/L	20	1.76	ND	92	80-120%	4	30%	
Dibenz(a,h)anthracene	1.61	0.176	0.351	ug/L	20	1.76	ND	92	80-120%	0.6	30%	
Fluoranthene	3.61	0.351	0.703	ug/L	20	1.76	2.09	87	80-126%	4	30%	
Fluorene	23.2	0.351	0.703	ug/L	20	1.76	21.4	101	77-127%	2	30%	
Indeno(1,2,3-cd)pyrene	1.55	0.176	0.351	ug/L	20	1.76	ND	88	80-121%	6	30%	
1-Methylnaphthalene	81.9	0.703	1.41	ug/L	20	1.76	79.7	126	53-148%	4	30%	
2-Methylnaphthalene	91.6	0.703	1.41	ug/L	20	1.76	90.0	90	48-150%	4	30%	
Naphthalene	954	0.703	1.41	ug/L	20	1.76	971	**-964**	**78-120%**	3	30%	E, Q-03
Phenanthrene	22.9	0.703	1.41	ug/L	20	1.76	21.1	102	80-120%	4	30%	
Pyrene	3.28	0.351	0.703	ug/L	20	1.76	1.79	85	80-125%	0.7	30%	
Carbazole	36.7	0.351	0.703	ug/L	20	1.76	33.8	**166**	**65-141%**	3	30%	Q-03
Dibenzofuran	9.18	0.351	0.703	ug/L	20	1.76	7.75	81	76-121%	0.2	30%	
Surr: Acenaphthylene-d8 (Surr)			*Recovery: % 95 %*	*Limits: 78-134 %*			*Dilution: 20x*					*S-01*
Benzo(a)pyrene-d12 (Surr)			*80-132 %*				*"*					*S-05*

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Apex Laboratories, LLC

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ORELAP ID: **OR100062**

Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1257 - 05 29 25 1550**

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 25C0856 - EPA 3051A							**Soil**					
Blank (25C0856-BLK1)			Prepared: 03/21/25 17:43		Analyzed: 03/23/25 17:04							
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 (25C0856-BS1)			Prepared: 03/21/25 17:43		Analyzed: 03/23/25 17:09							
EPA 6020B												
Arsenic	49.2	---	1.00	mg/kg wet	10	50.0	---	98	80-120%	---	---	
Barium	50.2	---	1.00	mg/kg wet	10	50.0	---	100	80-120%	---	---	
Cadmium	49.1	---	0.200	mg/kg wet	10	50.0	---	98	80-120%	---	---	
Chromium	49.5	---	1.00	mg/kg wet	10	50.0	---	99	80-120%	---	---	
Lead	51.0	---	0.200	mg/kg wet	10	50.0	---	102	80-120%	---	---	
Mercury	0.988	---	0.0800	mg/kg wet	10	1.00	---	99	80-120%	---	---	
Selenium	25.0	---	1.00	mg/kg wet	10	25.0	---	100	80-120%	---	---	
Silver	24.4	---	0.200	mg/kg wet	10	25.0	---	98	80-120%	---	---	
Duplicate (25C0856-DUP1)			Prepared: 03/21/25 17:43		Analyzed: 03/23/25 17:20							
QC Source Sample: Non-SDG (A5C1197-01)												
Arsenic	**18.8**	---	2.51	mg/kg dry	10	---	18.9	---	---	0.6	20%	DCNT
Cadmium	**2.20**	---	0.502	mg/kg dry	10	---	2.09	---	---	5	20%	DCNT
Chromium	**18.8**	---	2.51	mg/kg dry	10	---	32.7	---	---	**54**	**20%**	DCNT,Q-04
Lead	**430**	---	0.502	mg/kg dry	10	---	437	---	---	2	20%	DCNT
Mercury	ND	---	0.201	mg/kg dry	10	---	0.103	---	---	***	**20%**	DCNT
Selenium	**48.5**	---	2.51	mg/kg dry	10	---	33.7	---	---	**36**	**20%**	DCNT,Q-04
Silver	ND	---	0.502	mg/kg dry	10	---	ND	---	---	---	20%	DCNT
Duplicate (25C0856-DUP2)			Prepared: 03/21/25 17:43		Analyzed: 03/23/25 19:41							
QC Source Sample: Non-SDG (A5C1197-01RE1)												

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Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1257 - 05 29 25 1550**

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 25C0856 - EPA 3051A							**Soil**					
Duplicate (25C0856-DUP2)			Prepared: 03/21/25 17:43		Analyzed: 03/23/25 19:41							
QC Source Sample: Non-SDG (A5C1197-01RE1)												
Barium	**11600**	---	25.1	mg/kg dry	100	---	10400	---	---	11	20%	Q-16
Matrix Spike (25C0856-MS1)			Prepared: 03/21/25 17:43		Analyzed: 03/23/25 17:25							
QC Source Sample: Non-SDG (A5C1197-01)												
EPA 6020B												
Arsenic	136	---	2.43	mg/kg dry	10	122	18.9	97	75-125%	---	---	DCNT
Barium	9120	---	2.43	mg/kg dry	10	122	10100	**-840**	**75-125%**	---	---	DCNT,E, Q-65
Cadmium	124	---	0.486	mg/kg dry	10	122	2.09	101	75-125%	---	---	DCNT
Chromium	148	---	2.43	mg/kg dry	10	122	32.7	95	75-125%	---	---	DCNT
Lead	533	---	0.486	mg/kg dry	10	122	437	78	75-125%	---	---	DCNT
Mercury	2.46	---	0.194	mg/kg dry	10	2.43	0.103	97	75-125%	---	---	DCNT
Selenium	103	---	2.43	mg/kg dry	10	60.8	33.7	115	75-125%	---	---	DCNT
Silver	58.0	---	0.486	mg/kg dry	10	60.8	ND	95	75-125%	---	---	DCNT

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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 25C1020 - EPA 3015A									Water			
Blank (25C1020-BLK1)			Prepared: 03/26/25 10:12		Analyzed: 03/27/25 06:05							
EPA 6020B												
Arsenic	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Iron	ND	---	50.0	ug/L	1	---	---	---	---	---	---	
Manganese	ND	---	1.00	ug/L	1	---	---	---	---	---	---	B-02
LCS (25C1020-BS1)			Prepared: 03/26/25 10:12		Analyzed: 03/27/25 06:10							
EPA 6020B												
Arsenic	53.4	---	1.00	ug/L	1	55.6	---	96	80-120%	---	---	
Iron	5480	---	50.0	ug/L	1	5560	---	99	80-120%	---	---	
Manganese	53.2	---	1.00	ug/L	1	55.6	---	96	80-120%	---	---	
Duplicate (25C1020-DUP1)			Prepared: 03/26/25 10:12		Analyzed: 03/27/25 06:27							
QC Source Sample: Non-SDG (A5C1128-16)												
Arsenic	**3.39**	---	1.00	ug/L	1	---	3.22	---	---	5	20%	
Iron	**9920**	---	50.0	ug/L	1	---	9430	---	---	5	20%	
Manganese	**1130**	---	1.00	ug/L	1	---	1100	---	---	2	20%	
Matrix Spike (25C1020-MS1)			Prepared: 03/26/25 10:12		Analyzed: 03/27/25 06:32							
QC Source Sample: Non-SDG (A5C1128-16)												
EPA 6020B												
Arsenic	55.0	---	1.00	ug/L	1	55.6	3.22	93	75-125%	---	---	
Iron	15900	---	50.0	ug/L	1	5560	9430	117	75-125%	---	---	
Manganese	1140	---	1.00	ug/L	1	55.6	1100	**71**	**75-125%**	---	---	Q-65

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Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1257 - 05 29 25 1550**

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 25D0262 - EPA 3015A									Water			
Blank (25D0262-BLK1)			Prepared: 04/07/25 11:51		Analyzed: 04/07/25 21:23							
EPA 6020B												
Arsenic	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Barium	ND	---	2.00	ug/L	1	---	---	---	---	---	---	
Cadmium	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
Chromium	ND	---	2.00	ug/L	1	---	---	---	---	---	---	
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
Mercury	ND	---	0.0800	ug/L	1	---	---	---	---	---	---	
Selenium	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Silver	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
LCS (25D0262-BS1)			Prepared: 04/07/25 11:51		Analyzed: 04/07/25 21:45							
EPA 6020B												
Arsenic	53.0	---	1.00	ug/L	1	55.6	---	95	80-120%	---	---	
Barium	55.6	---	2.00	ug/L	1	55.6	---	100	80-120%	---	---	
Cadmium	55.2	---	0.200	ug/L	1	55.6	---	99	80-120%	---	---	
Chromium	57.9	---	2.00	ug/L	1	55.6	---	104	80-120%	---	---	
Lead	55.3	---	0.200	ug/L	1	55.6	---	100	80-120%	---	---	
Mercury	1.08	---	0.0800	ug/L	1	1.11	---	97	80-120%	---	---	
Selenium	28.0	---	1.00	ug/L	1	27.8	---	101	80-120%	---	---	
Silver	27.2	---	0.200	ug/L	1	27.8	---	98	80-120%	---	---	
Duplicate (25D0262-DUP1)			Prepared: 04/07/25 11:51		Analyzed: 04/07/25 22:12							
QC Source Sample: Non-SDG (A5C1554-04)												
Arsenic	**20.9**	---	1.00	ug/L	1	---	20.8	---	---	0.3	20%	
Barium	**59.0**	---	2.00	ug/L	1	---	58.6	---	---	0.8	20%	
Cadmium	ND	---	0.200	ug/L	1	---	ND	---	---	---	20%	
Chromium	ND	---	2.00	ug/L	1	---	ND	---	---	---	20%	
Lead	ND	---	0.200	ug/L	1	---	ND	---	---	---	20%	
Mercury	ND	---	0.0800	ug/L	1	---	ND	---	---	---	20%	
Selenium	ND	---	1.00	ug/L	1	---	ND	---	---	---	20%	
Silver	ND	---	0.200	ug/L	1	---	ND	---	---	---	20%	
Matrix Spike (25D0262-MS1)			Prepared: 04/07/25 11:51		Analyzed: 04/08/25 00:12							

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1257 - 05 29 25 1550**

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 25D0262 - EPA 3015A							**Water**					
Matrix Spike (25D0262-MS1)			Prepared: 04/07/25 11:51 Analyzed: 04/08/25 00:12									
QC Source Sample: Non-SDG (A5C1716-03)												
EPA 6020B												
Arsenic	52.8	---	1.00	ug/L	1	55.6	2.25	91	75-125%	---	---	
Barium	73.2	---	2.00	ug/L	1	55.6	18.6	98	75-125%	---	---	
Cadmium	55.0	---	0.200	ug/L	1	55.6	ND	99	75-125%	---	---	
Chromium	57.3	---	2.00	ug/L	1	55.6	ND	103	75-125%	---	---	
Lead	54.6	---	0.200	ug/L	1	55.6	0.221	98	75-125%	---	---	
Mercury	1.05	---	0.0800	ug/L	1	1.11	ND	95	75-125%	---	---	
Selenium	27.4	---	1.00	ug/L	1	27.8	ND	99	75-125%	---	---	
Silver	26.8	---	0.200	ug/L	1	27.8	ND	97	75-125%	---	---	

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15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1257 - 05 29 25 1550**

QUALITY CONTROL (QC) SAMPLE RESULTS

Dissolved 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 25C0902 - Matrix Matched Direct Inject								**Water**				
Blank (25C0902-BLK1)			Prepared: 03/22/25 13:23		Analyzed: 03/24/25 00:23							
EPA 6020B (Diss)												
Arsenic	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Iron	ND	---	50.0	ug/L	1	---	---	---	---	---	---	
Manganese	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
LCS (25C0902-BS1)			Prepared: 03/22/25 13:23		Analyzed: 03/24/25 00:28							
EPA 6020B (Diss)												
Arsenic	55.3	---	1.00	ug/L	1	55.6	---	100	80-120%	---	---	
Iron	5740	---	50.0	ug/L	1	5560	---	103	80-120%	---	---	
Manganese	56.2	---	1.00	ug/L	1	55.6	---	101	80-120%	---	---	
Duplicate (25C0902-DUP1)			Prepared: 03/22/25 13:23		Analyzed: 03/24/25 00:39							
QC Source Sample: Non-SDG (A5C1035-01)												
Arsenic	**12.3**	---	1.00	ug/L	1	---	12.1	---	---	1	20%	
Iron	**2240**	---	50.0	ug/L	1	---	2190	---	---	2	20%	
Manganese	**2550**	---	1.00	ug/L	1	---	2500	---	---	2	20%	
Matrix Spike (25C0902-MS1)			Prepared: 03/22/25 13:23		Analyzed: 03/24/25 01:01							
QC Source Sample: Non-SDG (A5C1099-02)												
EPA 6020B (Diss)												
Arsenic	94.6	---	1.00	ug/L	1	55.6	37.4	103	75-125%	---	---	
Iron	35300	---	50.0	ug/L	1	5560	30000	96	75-125%	---	---	
Manganese	10500	---	1.00	ug/L	1	55.6	10600	**-87**	**75-125%**	---	---	E, Q-65
Matrix Spike (25C0902-MS2)			Prepared: 03/22/25 13:23		Analyzed: 03/24/25 19:42							
QC Source Sample: Non-SDG (A5C1099-02RE1)												
EPA 6020B (Diss)												
Manganese	10900	---	10.0	ug/L	10	55.6	10900	**-111**	**75-125%**	---	---	Q-16

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Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1257 - 05 29 25 1550**

QUALITY CONTROL (QC) SAMPLE RESULTS

Dissolved 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 25D0231 - Matrix Matched Direct Inject												**Water**
Blank (25D0231-BLK1)			Prepared: 04/07/25 15:35 Analyzed: 04/07/25 19:40									
EPA 6020B (Diss)												
Arsenic	ND	---	1.00	ug/L	1	---	---	---	---	---	---	FILT3
Barium	ND	---	1.00	ug/L	1	---	---	---	---	---	---	FILT3
Cadmium	ND	---	0.200	ug/L	1	---	---	---	---	---	---	FILT3
Chromium	ND	---	2.00	ug/L	1	---	---	---	---	---	---	FILT3
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	FILT3
Mercury	ND	---	0.0800	ug/L	1	---	---	---	---	---	---	FILT3
Selenium	ND	---	1.00	ug/L	1	---	---	---	---	---	---	FILT3
Silver	ND	---	0.200	ug/L	1	---	---	---	---	---	---	FILT3
LCS (25D0231-BS1)			Prepared: 04/07/25 15:35 Analyzed: 04/07/25 19:45									
EPA 6020B (Diss)												
Arsenic	53.3	---	1.00	ug/L	1	55.6	---	96	80-120%	---	---	
Barium	55.1	---	1.00	ug/L	1	55.6	---	99	80-120%	---	---	
Cadmium	54.6	---	0.200	ug/L	1	55.6	---	98	80-120%	---	---	
Chromium	58.0	---	2.00	ug/L	1	55.6	---	104	80-120%	---	---	
Lead	55.3	---	0.200	ug/L	1	55.6	---	100	80-120%	---	---	
Mercury	1.08	---	0.0800	ug/L	1	1.11	---	97	80-120%	---	---	
Selenium	27.8	---	1.00	ug/L	1	27.8	---	100	80-120%	---	---	
Silver	27.0	---	0.200	ug/L	1	27.8	---	97	80-120%	---	---	
Duplicate (25D0231-DUP1)			Prepared: 04/07/25 15:35 Analyzed: 04/07/25 19:56									
QC Source Sample: IDW Water (A5C1257-04)												
EPA 6020B (Diss)												
Arsenic	ND	---	1.00	ug/L	1	---	ND	---	---	**---**	**20%**	FILT1
Barium	**23.5**	---	1.00	ug/L	1	---	23.5	---	---	0.04	20%	FILT1
Cadmium	ND	---	0.200	ug/L	1	---	ND	---	---	---	20%	FILT1
Chromium	ND	---	2.00	ug/L	1	---	ND	---	---	---	20%	FILT1
Lead	ND	---	0.200	ug/L	1	---	ND	---	---	---	20%	FILT1
Mercury	ND	---	0.0800	ug/L	1	---	ND	---	---	---	20%	FILT1
Selenium	ND	---	1.00	ug/L	1	---	ND	---	---	---	20%	FILT1
Silver	ND	---	0.200	ug/L	1	---	ND	---	---	---	20%	FILT1
Matrix Spike (25D0231-MS1)			Prepared: 04/07/25 15:35 Analyzed: 04/07/25 20:02									

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

ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1257 - 05 29 25 1550**

QUALITY CONTROL (QC) SAMPLE RESULTS

Dissolved 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 25D0231 - Matrix Matched Direct Inject							**Water**					
Matrix Spike (25D0231-MS1)			Prepared: 04/07/25 15:35 Analyzed: 04/07/25 20:02									
QC Source Sample: IDW Water (A5C1257-04)												
EPA 6020B (Diss)												
Arsenic	54.0	---	1.00	ug/L	1	55.6	ND	97	75-125%	---	---	FILT1
Barium	78.6	---	1.00	ug/L	1	55.6	23.5	99	75-125%	---	---	FILT1
Cadmium	56.3	---	0.200	ug/L	1	55.6	ND	101	75-125%	---	---	FILT1
Chromium	57.7	---	2.00	ug/L	1	55.6	ND	104	75-125%	---	---	FILT1
Lead	55.6	---	0.200	ug/L	1	55.6	ND	100	75-125%	---	---	FILT1
Mercury	1.08	---	0.0800	ug/L	1	1.11	ND	97	75-125%	---	---	FILT1
Selenium	27.2	---	1.00	ug/L	1	27.8	ND	98	75-125%	---	---	FILT1
Silver	26.8	---	0.200	ug/L	1	27.8	ND	96	75-125%	---	---	FILT1

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Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1257 - 05 29 25 1550**

QUALITY CONTROL (QC) SAMPLE RESULTS

Anions by Ion Chromatography

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25C0457 - Method Prep: Aq							**Water**					
Blank (25C0457-BLK1)			Prepared: 03/12/25 09:43		Analyzed: 03/12/25 11:58							
EPA 300.0												
Nitrate-Nitrogen	ND	---	0.250	mg/L	1	---	---	---	---	---	---	
Sulfate	ND	---	1.00	mg/L	1	---	---	---	---	---	---	
LCS (25C0457-BS1)			Prepared: 03/12/25 09:43		Analyzed: 03/12/25 12:20							
EPA 300.0												
Nitrate-Nitrogen	2.00	---	0.250	mg/L	1	2.00	---	100	90-110%	---	---	
Sulfate	7.96	---	1.00	mg/L	1	8.00	---	100	90-110%	---	---	
Duplicate (25C0457-DUP1)			Prepared: 03/12/25 09:43		Analyzed: 03/12/25 14:08							
QC Source Sample: Non-SDG (A5C1242-02)												
Nitrate-Nitrogen	ND	---	0.250	mg/L	1	---	ND	---	---	---	10%	
Sulfate	**66.1**	---	1.00	mg/L	1	---	66.2	---	---	0.2	10%	E
Duplicate (25C0457-DUP2)			Prepared: 03/12/25 09:43		Analyzed: 03/12/25 15:12							
QC Source Sample: Non-SDG (A5C1242-03)												
Nitrate-Nitrogen	**2.94**	---	0.250	mg/L	1	---	2.94	---	---	0.007	10%	
Sulfate	**77.0**	---	1.00	mg/L	1	---	77.0	---	---	0.002	10%	E
Matrix Spike (25C0457-MS1)			Prepared: 03/12/25 09:43		Analyzed: 03/12/25 14:29							
QC Source Sample: Non-SDG (A5C1242-02)												
EPA 300.0												
Nitrate-Nitrogen	2.42	---	0.312	mg/L	1	2.50	ND	97	87-112%	---	---	
Sulfate	76.2	---	1.25	mg/L	1	10.0	66.2	100	88-115%	---	---	E
Matrix Spike (25C0457-MS2)			Prepared: 03/12/25 09:43		Analyzed: 03/12/25 16:17							
QC Source Sample: Non-SDG (A5C1242-03)												
EPA 300.0												
Nitrate-Nitrogen	5.45	---	0.312	mg/L	1	2.50	2.94	100	87-112%	---	---	
Sulfate	87.2	---	1.25	mg/L	1	10.0	77.0	102	88-115%	---	---	E

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Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1257 - 05 29 25 1550**

QUALITY CONTROL (QC) SAMPLE RESULTS

Anions by Ion Chromatography

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25C0461 - Method Prep: Aq							**Water**					
Blank (25C0461-BLK1)			Prepared: 03/12/25 10:40		Analyzed: 03/13/25 04:30							
EPA 300.0												
Nitrate-Nitrogen	ND	---	0.250	mg/L	1	---	---	---	---	---	---	
Sulfate	ND	---	1.00	mg/L	1	---	---	---	---	---	---	
LCS (25C0461-BS1)			Prepared: 03/12/25 10:40		Analyzed: 03/13/25 04:52							
EPA 300.0												
Nitrate-Nitrogen	1.98	---	0.250	mg/L	1	2.00	---	99	90-110%	---	---	
Sulfate	7.87	---	1.00	mg/L	1	8.00	---	98	90-110%	---	---	
Duplicate (25C0461-DUP1)			Prepared: 03/12/25 10:40		Analyzed: 03/13/25 05:57							
QC Source Sample: Non-SDG (A5C1223-01)												
Nitrate-Nitrogen	**3.06**	---	0.500	mg/L	2	---	3.09	---	---	0.7	10%	
Sulfate	**334**	---	2.00	mg/L	2	---	334	---	---	0.1	10%	E
Duplicate (25C0461-DUP2)			Prepared: 03/12/25 10:40		Analyzed: 03/13/25 01:16							
QC Source Sample: Non-SDG (A5C1274-01)												
Nitrate-Nitrogen	ND	---	0.250	mg/L	1	---	ND	---	---	---	10%	
Sulfate	**2.51**	---	1.00	mg/L	1	---	2.51	---	---	0.05	10%	
Matrix Spike (25C0461-MS1)			Prepared: 03/12/25 10:40		Analyzed: 03/13/25 06:18							
QC Source Sample: Non-SDG (A5C1223-01)												
EPA 300.0												
Nitrate-Nitrogen	7.07	---	0.500	mg/L	2	4.00	3.09	100	87-112%	---	---	
Sulfate	344	---	2.00	mg/L	2	16.0	334	**62**	**88-115%**	---	---	E, Q-03
Matrix Spike (25C0461-MS2)			Prepared: 03/12/25 10:40		Analyzed: 03/13/25 01:37							
QC Source Sample: Non-SDG (A5C1274-01)												
EPA 300.0												
Nitrate-Nitrogen	2.50	---	0.312	mg/L	1	2.50	ND	100	87-112%	---	---	
Sulfate	12.6	---	1.25	mg/L	1	10.0	2.51	100	88-115%	---	---	

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15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1257 - 05 29 25 1550**

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 25C0459 - Dry Weight Prep (EPA 8000D)							**Soil**					
Duplicate (25C0459-DUP1)			Prepared: 03/12/25 10:19		Analyzed: 03/13/25 05:32							**CONT**
QC Source Sample: Non-SDG (A5C1227-01)												
% Solids	**75.1**	---	1.00	%	1	---	75.6	---	---	0.7	10%	
Duplicate (25C0459-DUP2)			Prepared: 03/12/25 10:19		Analyzed: 03/13/25 05:32							
QC Source Sample: Non-SDG (A5C1231-01)												
% Solids	**81.3**	---	1.00	%	1	---	82.8	---	---	2	10%	
Duplicate (25C0459-DUP3)			Prepared: 03/12/25 18:38		Analyzed: 03/13/25 05:32							
QC Source Sample: Non-SDG (A5C1317-01)												
% Solids	**84.3**	---	1.00	%	1	---	84.6	---	---	0.4	10%	
Duplicate (25C0459-DUP4)			Prepared: 03/12/25 18:38		Analyzed: 03/13/25 05:32							
QC Source Sample: Non-SDG (A5C1338-02)												
% Solids	**80.0**	---	1.00	%	1	---	77.1	---	---	4	10%	
Duplicate (25C0459-DUP5)			Prepared: 03/12/25 19:04		Analyzed: 03/13/25 05:32							
QC Source Sample: Non-SDG (A5C1131-01)												
% Solids	**82.9**	---	1.00	%	1	---	83.3	---	---	0.5	10%	

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

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SAMPLE PREPARATION INFORMATION

Organochlorine Pesticides by EPA 8081B

Prep: EPA 3510C (Neutral pH)/3640A (GPC)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25C0849							
A5C1257-01RE1	Water	EPA 8081B	03/11/25 12:10	03/13/25 11:18	980mL/10mL	1000mL/5mL	2.04
A5C1257-02RE1	Water	EPA 8081B	03/11/25 12:50	03/13/25 11:18	980mL/10mL	1000mL/5mL	2.04

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)

Prep: EPA 3510C (Acid Extraction)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25C0730							
A5C1257-04	Water	EPA 8270E SIM	03/11/25 14:00	03/18/25 14:51	980mL/2mL	1000mL/2mL	1.02

Prep: EPA 3546

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25C0540							
A5C1257-03	Soil	EPA 8270E SIM	03/11/25 13:50	03/13/25 13:56	11.42g/5mL	10g/5mL	0.88
A5C1257-03RE1	Soil	EPA 8270E SIM	03/11/25 13:50	03/13/25 13:56	11.42g/5mL	10g/5mL	0.88

Polycyclic Aromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Prep: EPA 3511 (Bottle Extraction)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25C0446							
A5C1257-01	Water	EPA 8270E LVI	03/11/25 12:10	03/12/25 08:09	107.11mL/5mL	125mL/5mL	1.17
A5C1257-02	Water	EPA 8270E LVI	03/11/25 12:50	03/12/25 08:09	102.57mL/5mL	125mL/5mL	1.22

Total Metals by EPA 6020B (ICPMS)

Prep: EPA 3015A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25C1020							
A5C1257-01	Water	EPA 6020B	03/11/25 12:10	03/26/25 10:12	45mL/50mL	45mL/50mL	1.00
A5C1257-02	Water	EPA 6020B	03/11/25 12:50	03/26/25 10:12	45mL/50mL	45mL/50mL	1.00
Batch: 25D0262							
A5C1257-04	Water	EPA 6020B	03/11/25 14:00	04/07/25 11:51	45mL/50mL	45mL/50mL	1.00

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ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1257 - 05 29 25 1550**

SAMPLE PREPARATION INFORMATION

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: 25C0856							
A5C1257-03	Soil	EPA 6020B	03/11/25 13:50	03/21/25 17:43	0.468g/50mL	0.5g/50mL	1.07

Dissolved Metals by EPA 6020B (ICPMS)

Prep: Matrix Matched Direct Inject

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25C0902							
A5C1257-01	Water	EPA 6020B (Diss)	03/11/25 12:10	03/22/25 13:23	45mL/50mL	45mL/50mL	1.00
A5C1257-01RE1	Water	EPA 6020B (Diss)	03/11/25 12:10	03/22/25 13:23	45mL/50mL	45mL/50mL	1.00
A5C1257-02	Water	EPA 6020B (Diss)	03/11/25 12:50	03/22/25 13:23	45mL/50mL	45mL/50mL	1.00
A5C1257-02RE1	Water	EPA 6020B (Diss)	03/11/25 12:50	03/22/25 13:23	45mL/50mL	45mL/50mL	1.00
Batch: 25D0231							
A5C1257-04	Water	EPA 6020B (Diss)	03/11/25 14:00	04/07/25 15:35	22.5mL/25mL	45mL/50mL	1.00

Anions by Ion Chromatography

Prep: Method Prep: Aq

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25C0457							
A5C1257-01	Water	EPA 300.0	03/11/25 12:10	03/12/25 09:43	5mL/5mL	5mL/5mL	1.00
Batch: 25C0461							
A5C1257-02	Water	EPA 300.0	03/11/25 12:50	03/12/25 10:40	5mL/5mL	5mL/5mL	1.00

Percent Dry Weight

Prep: Dry Weight Prep (EPA 8000D)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25C0459							
A5C1257-03	Soil	EPA 8000D	03/11/25 13:50	03/12/25 10:19	1g	1g	1.00

Lab Filtration

Prep: Lab Filtration

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25C1112							

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ANALYTICAL REPORT

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Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1257 - 05 29 25 1550**

SAMPLE PREPARATION INFORMATION

Lab Filtration

Prep: Lab Filtration

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A5C1257-04	Water	NA	03/11/25 14:00	03/27/25 13:58	150mL/150mL		NA

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Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
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Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1257 - 05 29 25 1550**

QUALIFIER DEFINITIONS

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

Apex Laboratories

B-02	Analyte detected in an associated blank at a level between one-half the MRL and the MRL. (See Notes and Conventions below.)
C-05	Extract has undergone a GPC (Gel-Permeation Chromatography) cleanup per EPA 3640A. Reporting levels may be raised due to dilution necessary for cleanup. Sample Final Volume includes the GPC dilution factor, see the Prep page for details.
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.
DCNT	Sample decanted due to the presence of sediment in water samples, or water in sediment or soil samples. (Note: Decanted aqueous sample bottles are not solvent rinsed.)
E	Estimated Value. The result is above the calibration range of the instrument.
FILT1	Sample was lab filtered and acid preserved prior to analysis. See sample preparation section of report for date and time of filtration.
FILT3	This is a laboratory filtration blank, associated with filtration batch 25C1112. See Prep page of report for associated samples.
J	Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified DL.
M-05	Estimated results. Peak separation for structural isomers is insufficient for accurate quantification.
Q-03	Spike recovery and/or RPD is outside control limits due to the high concentration of analyte present in the sample.
Q-04	Spike recovery and/or RPD is outside control limits due to a non-homogeneous sample matrix.
Q-16	Reanalysis of an original Batch QC sample.
Q-19	Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis.
Q-65	Spike recovery is estimated due to the high analyte concentration of the source sample.
R-02	The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
S-01	Surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference.
S-05	Surrogate recovery is estimated due to sample dilution required for high analyte concentration and/or matrix interference.

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AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1257 - 05 29 25 1550**

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)

Validated 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 and Detection Limits: Default Limits

Default Reporting and Detection Limits are based on 100% dry weight with the minimum dilution for the analysis. Reporting and Detection Limits are raised due to moisture content, additional dilutions required for analysis, matrix interferences and in other cases, as necessary.

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).

Apex Laboratories

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Darrell Auvil, Client Services Manager

Apex Laboratories, LLC

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

Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1257 - 05 29 25 1550**

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to one half of the Reporting Limit (RL).
Blank results for gravimetric analyses are evaluated to the Reporting Level, not to half of the Reporting Level.
-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.

Apex Laboratories

Darrell Auvil, Client Services Manager

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15618 SW 72nd Ave	Project Number:	**1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager:	**Steve Misner**	**A5C1257 - 05 29 25 1550**

Decanted Samples:

Soils/Sediments:
Unless TCLP analysis is required or there is notification otherwise for a specific project, all Soil and Sediments containing excess water are decanted prior to analysis in order to provide the most representative sample for analysis.

Water Samples:
Water samples containing solids and sediment may need to be decanted in order to eliminate these particulates from the water extractions. In the case of organics extractions, a solvent rinse of the container will not be performed.

Volatiles Soils (5035s)
Samples that are field preserved by 5035 for volatiles are dry weight corrected using the same dry weight corretion as for normal analyses. In the case of decanted samples, the dry weight may be performed on a decanted sample, while the aliquot for 5035 may not have been treated the same way. If this is a concern, please submit separate containers for dry weight analysis for volatiles can be provided.

All samples decanted in the laboratory are noted in this report with the DCNT qualifier indicating the sample was decanted.

Apex Laboratories

Darrell Auvil, Client Services Manager

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Apex Laboratories, LLC
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ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1257 - 05 29 25 1550**

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

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

Secondary Accreditations

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

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.
Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

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

Apex Laboratories

Darrell Auvil, Client Services Manager

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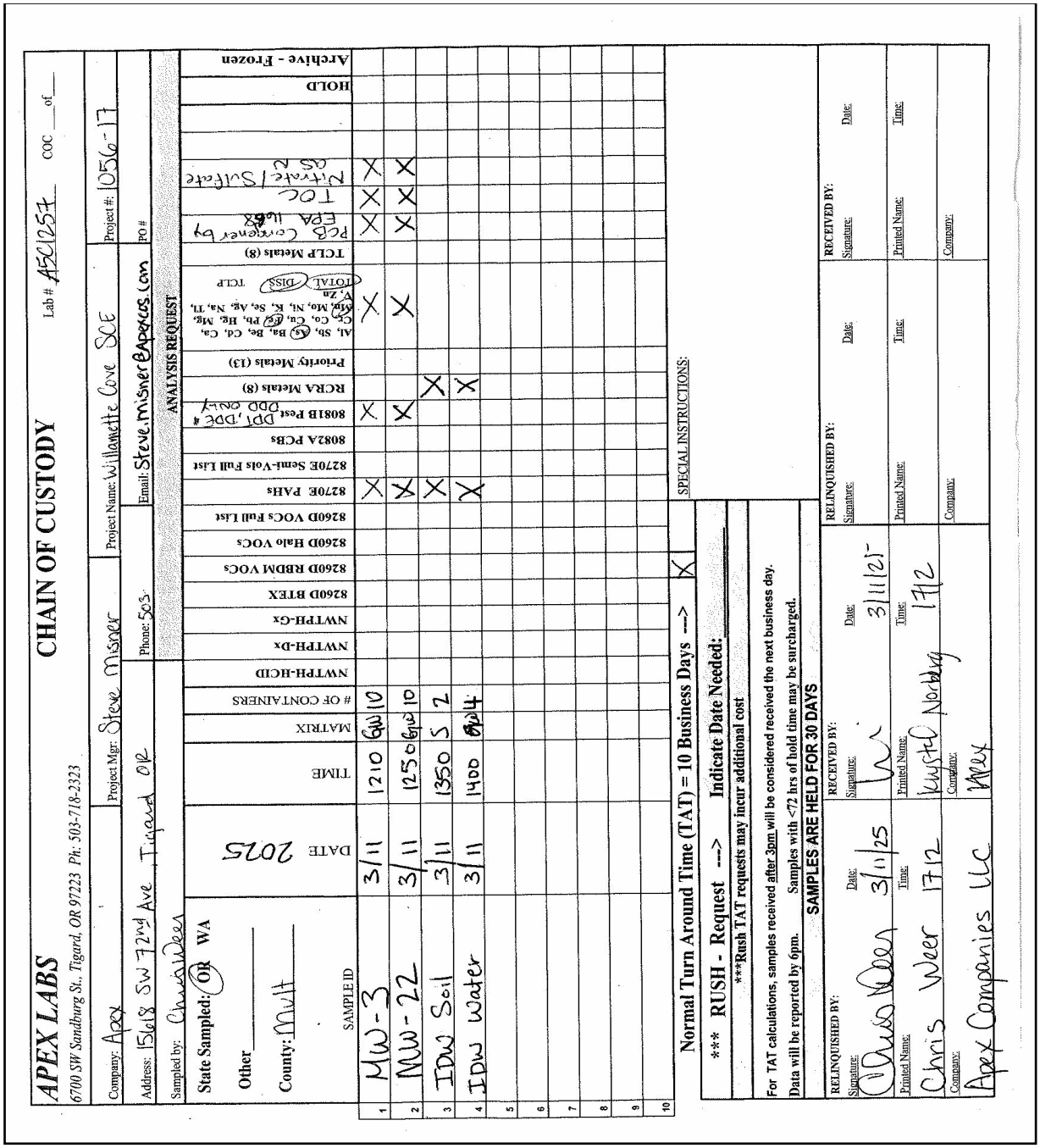
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1257 - 05 29 25 1550**



APEX LABS — CHAIN OF CUSTODY — Lab # A5C1257 — COC __ of __

6700 SW Sandburg St., Tigard, OR 97223 Ph: 503-718-2323

Company: Apex — Project Mgr: Steve Misner — Project Name: Willamette Cove SCE — Project #: 1056-17

Address: 15618 SW 72nd Ave Tigard OR — Phone: 503 — Email: Steve.Misner@apexcos.com — PO #

Sampled by: Chris Weer

State Sampled: OR WA — Other ____ — County: Multi

ANALYSIS REQUEST

#	SAMPLE ID	DATE	TIME	MATRIX	# OF CONTAINERS	8081B Pest DDT, DDE, DDD ONLY	RCRA Metals (8)	Priority Metals (13)	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Hg, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Tl, V, Zn TOTAL DISS TCLP	TCLP Metals (8)	PCB Congener by EPA 1668	TOC	Nitrate/Sulfate as N	HOLD	Archive - Frozen
1	MW-3	3/11 2025	1210	GW	10	X			X		X	X	X		
2	MW-22	3/11	1250	GW	10	X			X		X	X	X		
3	IDW Soil	3/11	1350	S	2		X								
4	IDW Water	3/11	1400	GW	4		X								
5															
6															
7															
8															
9															
10															

Normal Turn Around Time (TAT) = 10 Business Days ---> X

SPECIAL INSTRUCTIONS:

*** RUSH - Request ---> Indicate Date Needed: _____

***Rush TAT requests may incur additional cost

For TAT calculations, samples received after 3pm will be considered received the next business day.

Data will be reported by 6pm. Samples with <72 hrs of hold time may be surcharged.

SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY: Signature: Chris Weer Date: 3/11/25 Printed Name: Chris Weer Time: 1712 Company: Apex Companies LLC

RECEIVED BY: Signature: Date: 3/11/25 Printed Name: Kristel Norberg Time: 1712 Company: WEX

RELINQUISHED BY: Signature: Date: Printed Name: Time: Company:

RECEIVED BY: Signature: Date: Printed Name: Time: Company:

Apex Laboratories

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Darrell Auvil, Client Services Manager

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

Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1257 - 05 29 25 1550**

APEX LABS COOLER RECEIPT FORM

Client: Apex Element WO#: A5 C1257

Project/Project #: Willamette Cove SCE | 1056-17

Delivery Info:

Date/time received: 3/11/25 @ 1712 By: KN

KN 3/11/25

Delivered by: Apex Client ESS FedEx UPS Radio Morgan SDS Evergreen Other

From USDA Regulated Origin? Yes ____ No ✓

Cooler Inspection Date/time inspected: 3/11/25 @ 1712 By: KN

Chain of Custody included? Yes ✓ No ____

Signed/dated by client? Yes ✓ No ____

Contains USDA Reg. Soils? Yes ____ No ✓ Unsure (email RegSoils) ____

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	3.7	1.9					
Custody seals? (Y/N)	N	N					
Received on ice? (Y/N)	Y	Y					
Temp. blanks? (Y/N)	Y	Y					
Ice type: (Gel/Real/Other)	Real	Real					
Condition (In/Out):	In	In					

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: 3/11/25 @ 1800 By: KN

All samples intact? Yes ✓ No ___ Comments: ____

Bottle labels/COCs agree? Yes ✓ No ___ Comments: ____

COC/container discrepancies form initiated? Yes ___ No ✓

Containers/volumes received appropriate for analysis? Yes ✓ No ___ Comments: ____

Do VOA vials have visible headspace? Yes ___ No ___ NA ✓

Comments ____

Water samples: pH checked: Yes ✓ No ___ NA ___ pH appropriate? Yes ✓ No ___ NA ___ pH ID: A23i172

Comments: TK KN 3/11/25

Labeled by: KN

Witness: KM

Cooler Inspected by: KN

Form Y-003 R-02

Apex Laboratories

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Darrell Auvil, Client Services Manager

Apex Laboratories, LLC
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Tigard, OR 97223
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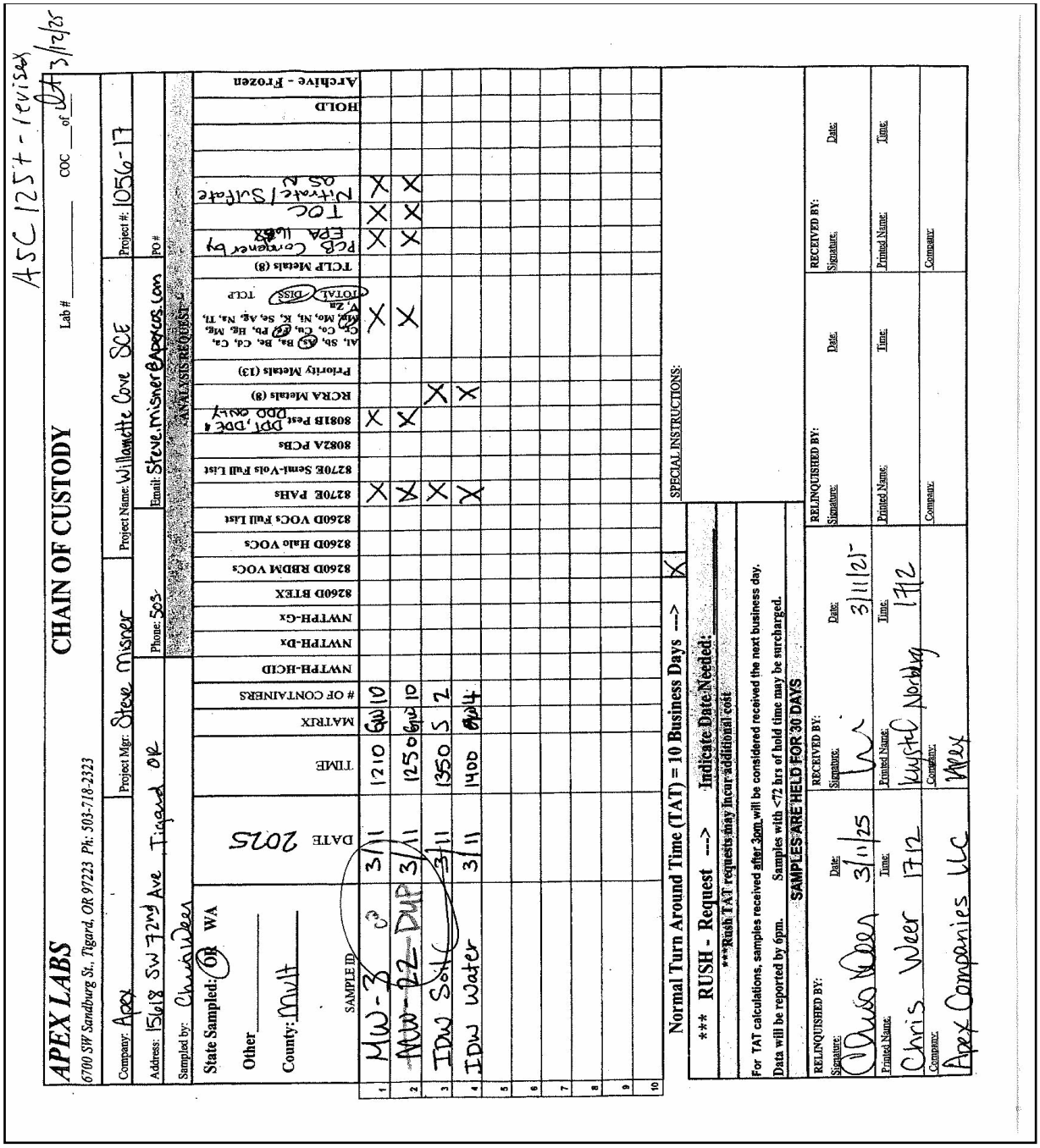
ORELAP ID: **OR100062**

ANALYTICAL REPORT

AMENDED REPORT

Apex Companies, LLC	Project: **Willamette Cove GW SCE**	
15618 SW 72nd Ave	Project Number: **1056-17**	**Report ID:**
Tigard, OR 97224	Project Manager: **Steve Misner**	**A5C1257 - 05 29 25 1550**



APEX LABS — CHAIN OF CUSTODY — Lab # A5C1257 - revised — COC 1 of 1 — 3/12/25

6700 SW Sandburg St., Tigard, OR 97223 Ph: 503-718-2323

Company: Apex — Project Mgr: Steve Misner — Project Name: Willamette Cove SCE — Project #: 1056-17

Address: 15618 SW 72nd Ave Tigard OR — Phone: 503- — Email: Steve.misner@apexcos.com — PO #

Sampled by: Chris Weer — ANALYSIS REQUEST

State Sampled: OR WA — Other — County: Mult

SAMPLE ID	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID	NWTPH-Dx	NWTPH-Gx	8260D BTEX	8260D RBDM VOCs	8260D Halo VOCs	8260D VOCs Full List	8270E PAHs	8270E Semi-Vols Full List	8082A PCBs	8081B Pest, DDT, DDE & DDD only	RCRA Metals (8)	Priority Metals (13)	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Hg, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Tl, V, Zn — TOTAL / DISS — TCLP	TCLP Metals (8)	PCB EPA 1668A Congener by	TOC	Nitrate / Sulfate	HOLD	Archive - Frozen
1	3/11	1210	GW	10								X			X			X		X	X		
2	3/11	1250	GW	10								X			X			X		X	X		
3	3/11	1350	S	2								X				X							
4	3/11	1400	Soil	1								X				X							
5																								
6																								
7																								
8																								
9																								
10																								

Normal Turn Around Time (TAT) = 10 Business Days ---> X — SPECIAL INSTRUCTIONS:

*** RUSH - Request ---> Indicate Date Needed:

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For TAT calculations, samples received after 3pm will be considered received the next business day.
Data will be reported by 6pm. Samples with <72 hrs of hold time may be surcharged.

SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY:	Date:	RECEIVED BY:	Date:
Signature: Chris Weer	3/11/25	Signature:	3/11/25
Printed Name: Chris Weer	Time: 1712	Printed Name: Krysta Norby	Time: 1712
Company: Apex Companies LLC		Company: Apex	

RELINQUISHED BY:	Date:	RECEIVED BY:	Date:
Signature:		Signature:	
Printed Name:	Time:	Printed Name:	Time:
Company:		Company:	

Apex Laboratories

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Darrell Auvil, Client Services Manager

CERES Analytical Laboratory, Inc.
4919 Windplay Dr. Suite 1, El Dorado Hills, CA 95762

March 25, 2025 Ceres ID: 19274

Apex Laboratories
6700 S.W. Sandburg Street
Tigard, OR 97223

The following report contains the results for the two aqueous samples received on March 13, 2025. These samples were analyzed for congener PCBs by EPA method 1668C. Standard 3-week turn-around time was provided for this work.

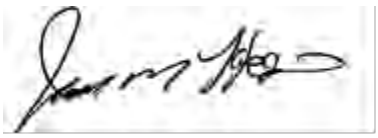
This work was authorized under Apex Laboratories' Project # A5C1257.

Continuing Calibration Verification (CCV) Requirements
All associated calibration verification standard(s) (CCV) met the acceptance criteria.

The report consists of a Cover Letter, Sample Inventory (Section I), Data Summary (Section II), Sample Tracking (Section VI), and Qualifiers/Abbreviations (Section VII). Raw Data (Section III), Continuing Calibration (Section IV), and Initial Calibration (Section V) are available in a full report (.pdf format) upon request.

If you have any questions regarding this report, please feel free to contact me at (916)932-5011.

Sincerely,



James M. Hedin
Director of Operations/CEO
jhedin@ceres-lab.com

Section I: Sample Inventory

Ceres Sample ID:	Sample ID	Date Received	Collection Date	&Time
19274-001	MW-3	3/13/2025	3/11/2025	12:10
19274-002	MW-22	3/13/2025	3/11/2025	12:50

Section II: Data Summary

Sample ID: Method Blank

	Ceres ID:	0-3448-MB		**Date Received:**	NA
Project ID:	A5C1257	**QC Batch #:**	3448	**Date Extracted:**	20-Mar-25
Matrix:	Aqueous	**Sample Size:**	1.000 L	**Analyzed Date:**	23-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2-MoCB	1	ND		20.0	2.08
3-MoCB	2	ND		20.0	3.49
4-MoCB	3	ND		20.0	3.49
2,2'-/2,6-DiCB	4/10	ND		20.0	8.07
2,4-/2,5-DiCB	7/9	ND		20.0	8.07
2,3'-DiCB	6	ND		20.0	8.07
2,3-/2,4'-DiCB	5/8	ND		20.0	8.07
3,5-DiCB	14	ND		20.0	8.31
3,3'-DiCB	11	ND		20.0	8.31
3,4-/3,4'-DiCB	12/13	ND		20.0	8.31
4,4'-DiCB	15	ND		20.0	8.31
2,2',6-TrCB	19	ND		20.0	4.97
2,4,6-TrCB	30	ND		20.0	4.97
2,2',5-TrCB	18	ND		20.0	4.97
2,2',4-TrCB	17	ND		20.0	4.97
2,3,6-/2,3',6-TrCB	24/27	ND		20.0	4.97
2,2',3-/2,4',6-TrCB	16/32	ND		20.0	4.97
2',3,5-TrCB	34	ND		20.0	5.86
2,3,5-TrCB	23	ND		20.0	5.86
2,4,5-TrCB	29	ND		20.0	5.86
2,3',5-TrCB	26	ND		20.0	5.86
2,3',4-TrCB	25	ND		20.0	5.86
2,4',5-TrCB	31	ND		20.0	5.86
2,4,4'-TrCB	28	ND		20.0	5.86
2,3,3'-/2,3,4-/2',3,4-TrCB	20/21/33	ND		20.0	5.86
2,3,4'-TrCB	22	ND		20.0	5.86
3,3',5-TrCB	36	ND		20.0	5.86
3,4',5-TrCB	39	ND		20.0	5.86
3,4,5-TrCB	38	ND		20.0	5.86
3,3',4-TrCB	35	ND		20.0	5.86
3,4,4'-TrCB	37	ND		20.0	5.86
2,2',6,6'-TeCB	54	ND		20.0	3.75
2,2',4,6-TeCB	50	ND		20.0	3.75
2,2',5,6'-TeCB	53	ND		20.0	3.75
2,2',4,6'-TeCB	51	ND		20.0	3.75
2,2',3,6-TeCB	45	ND		20.0	3.75
2,2',3,6'-TeCB	46	ND		20.0	3.75
2,2',5,5'-/2,3',4,6-TeCB	52/69	ND		20.0	3.75
2,3',5',6-TeCB	73	ND		20.0	3.75
2,2',3-5-/2,2',4,5'-TeCB	43/49	ND		20.0	3.75
2,2',4,4'-TeCB	47	ND		20.0	3.75
2,2',4,5-/2,4,4',6-TeCB	48/75	ND		20.0	3.75
2,3,5,6-TeCB	65	ND		20.0	3.75
2,3,4,6-TeCB	62	ND		20.0	3.75

Sample ID: Method Blank

		Ceres ID:	0-3448-MB	**Date Received:**	NA
Project:	A5C1257	**QC Batch #:**	3448	**Date Extracted:**	20-Mar-25
Matrix:	Aqueous	**Sample Size:**	1.000 L	**Analyzed Date:**	23-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2,2',3,5'-TeCB	44	ND		20.0	3.75
2,2',3,4'-/2,3,3',6-TeCB	42/59	ND		20.0	3.75
2,2',3,4-/2,3,4',6-/2,3',4',6-/2,3',5,5'-TeCB	41/64/71/72	ND		20.0	3.75
2,3',4,5'-TeCB	68	ND		20.0	3.75
2,2',3,3'-TeCB	40	ND		20.0	3.75
2,3,3',5-TeCB	57	ND		20.0	3.75
2,3',4,5-TeCB	67	ND		20.0	3.75
2,3,3',5'-TeCB	58	ND		20.0	3.75
2,3,4',5-TeCB	63	ND		20.0	3.75
2,4,4',5-TeCB	74	ND		20.0	3.75
2,3,4,5-/2,3',4',5-TeCB	61/70	ND		20.0	3.75
2,3',4,4'-/2',3,4,5-TeCB	66/76	ND		20.0	3.75
3,3',5,5'-TeCB	80	ND		20.0	3.75
2,3,3',4-TeCB	55	ND		20.0	3.75
2,3,3',4'-/2,3,4,4'-TeCB	56/60	ND		20.0	3.59
3,3',4,5'-TeCB	79	ND		20.0	3.59
3,3',4,5-TeCB	78	ND		20.0	3.59
3,4,4',5-TeCB	81	ND		20.0	3.59
3,3',4,4'-TeCB	77	ND		20.0	5.22
2,2',4,6,6'-PeCB	104	ND		20.0	4.75
2,2',3,6,6'-PeCB	96	ND		20.0	4.75
2,2',4,5'6-PeCB	103	ND		20.0	4.75
2,2',4,4',6-PeCB	100	ND		20.0	4.75
2,2',3,5,6'-PeCB	94	ND		20.0	4.75
2,2',3,5,6-/2,2',3,5',6-/2,2',3',4,6-/2,2',4,5,6'-PeCB	93/95/98/102	ND		20.0	4.75
2,2',3,4,6-PeCB	88/91	ND		20.0	4.75
2,3',4,5',6-PeCB	121	ND		20.0	4.75
2,2',3,3',6-/2,2',3,5,5'-PeCB	84/92	ND		20.0	3.46
2,2',3,4,6'-PeCB	89	ND		20.0	3.46
2,2',3,4',5-/2,2',4,5,5'-PeCB	90/101	ND		20.0	3.46
2,3,3',5',6-PeCB	113	ND		20.0	3.46
2,2',4,4',5-PeCB	99	ND		20.0	3.46
2,2',3,3',5-PeCB	83	ND		20.0	3.46
2,3,3',5,6-/2,3',4,4',6-PeCB	112/119	ND		20.0	3.46
2,3,3',4,6-PeCB	109	ND		20.0	3.46
2,2',3',4,5-PeCB	97	ND		20.0	3.46
2,2',3,4,5-PeCB	86	ND		20.0	3.46
2,2',3,4,5'-/2,3,4',5,6-/2',3,4,5,6'-PeCB	87/117/125	ND		20.0	3.46
2,3,3',5,5'-/2,3,4,4',6-PeCB	111/115	ND		20.0	3.46
2,2',3,4,4'-/2,3,4,5,6-PeCB	85/116	ND		20.0	3.46
2,3',4,5,5'-PeCB	120	ND		20.0	3.46
2-3,3',4',6-PeCB	110	ND		20.0	3.46

Sample ID: Method Blank

		Ceres ID:	0-3448-MB	**Date Received:**	NA
Project:	A5C1257	**QC Batch #:**	3448	**Date Extracted:**	20-Mar-25
Matrix:	Aqueous	**Sample Size:**	1.000 L	**Analyzed Date:**	23-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2,2',3,3',4-PeCB	82	ND		20.0	3.46
2',3,4,5,5'-PeCB	124	ND		20.0	3.46
2,3,3',4',5-/2,3,3',4,5'-PeCB	107/108	ND		20.0	3.46
2,3',4,4',5'-PeCB	123	ND		20.0	3.46
2,3,3',4,5-/2,3',4,4',5-PeCB	106/118	ND		20.0	5.58
2,3,4,4',5-PeCB	114	ND		20.0	3.25
2',3,3',4,5-PeCB	122	ND		20.0	3.25
2,3,3',4,4'-PeCB	105	ND		20.0	4.87
3,3',4,5,5'-PeCB	127	ND		20.0	4.87
3,3',4,4',5-PeCB	126	ND		20.0	5.73
2,2',4,4',6,6'-HxCB	155	ND		20.0	4.86
2,2',3,4',6,6'-HxCB	150	ND		20.0	4.86
2,2',3,5,6,6'-HxCB	152	ND		20.0	4.86
2,2',3,4,6,6'-HxCB	145	ND		20.0	4.86
2,2',3,3',6,6'-HxCB	136	ND		20.0	4.86
2,2',3,4',5,6'-HxCB	148	ND		20.0	4.86
2,2',4,4',5',6-HxCB	154	ND		20.0	4.86
2,2',3,5,5',6-HxCB	151	ND		20.0	4.86
2,2',3,3',5,6'-HxCB	135	ND		20.0	4.86
2,2',3,4,5',6-HxCB	144	ND		20.0	4.86
2,2',3,4',5,6-HxCB	147	ND		20.0	4.86
2,2',3,4,4',6-/2,2',3,4',5',6-HxCB	139/149	ND		20.0	4.86
2,2',3,4,4',6'-HxCB	140	ND		20.0	4.86
2,2',3,3',5,6-/2,2',3,4,5,6'-HxCB	134/143	ND		20.0	5.19
2,2',3,3',4,6-/2,2',3,4,5,6-HxCB	131/142	ND		20.0	5.19
2,2',3,3',5,5'-HxCB	133	ND		20.0	5.19
2,2',3,3',4,6'-/2,2',3,4',5,5'-HxCB	132/146	ND		20.0	5.19
2,3,3',4,5',6-/2,3,3',5,5',6-HxCB	161/165	ND		20.0	5.19
2,2',4,4',5,5'-HxCB	153	ND		20.0	5.19
2,3',4,4',5',6-HxCB	168	ND		20.0	5.19
2,2',3,4,5,5'-HxCB	141	ND		20.0	5.19
2,2',3,4,4',5-HxCB	137	ND		20.0	5.19
2,2',3,3',4,5'-HxCB	130	ND		20.0	5.19
2,2',3,4,4',5-/2,3,3',4',5,6-/2,3,3',4',5',6-HxCB	138/163/164	ND		20.0	5.19
2,3,3',4,4',6-/2,3,3',4,5,6-HxCB	158/160	ND		20.0	5.19
2,2',3,3',4,5-HxCB	129	ND		20.0	5.19
2,3,4,4',5,6-HxCB	166	ND		20.0	5.19
2,3,3',4,5,5'-HxCB	159	ND		20.0	5.19
2,2',3,3',4,4'-/2,3,3',4',5,5'-HxCB	128/162	ND		20.0	5.19
2,3',4,4',5,5'-HxCB	167	ND		20.0	5.19
2,3,3',4,4',5-HxCB	156	ND		20.0	4.13
2,3,3',4,4',5'-HxCB	157	ND		20.0	6.07
3,3',4,4',5,5'-HxCB	169	ND		20.0	5.20

Sample ID: Method Blank

		Ceres ID:	0-3448-MB	**Date Received:**	NA
Project:	A5C1257	**QC Batch #:**	3448	**Date Extracted:**	20-Mar-25
Matrix:	Aqueous	**Sample Size:**	1.000 L	**Analyzed Date:**	23-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2,2',3,4',5,6,6'-HpCB	188	ND		20.0	5.69
2,2',3,4,4',6,6'-HpCB	184	ND		20.0	5.69
2,2',3,3',5,6,6'-HpCB	179	ND		20.0	5.69
2,2',3,3',4,6,6'-HpCB	176	ND		20.0	5.69
2,2',3,4,5,6,6'-HpCB	186	ND		20.0	5.69
2,2',3,3',5,5',6-HpCB	178	ND		20.0	5.69
2,2',3,3',4,5',6-HpCB	175	ND		20.0	5.69
2,2',3,4,4',5,6'-/2,2',3,4',5,5',6-HpCB	182/187	ND		20.0	5.69
2,2',3,4,4',5',6-HpCB	183	ND		20.0	5.69
2,2',3,4,5,5',6-HpCB	185	ND		20.0	3.69
2,2',3,3',4,5,6'-HpCB	174	ND		20.0	3.69
2,2',3,4,4',5,6-HpCB	181	ND		20.0	3.69
2,2',3,3',4',5,6-HpCB	177	ND		20.0	3.69
2,2',3,3',4,4',6-HpCB	171	ND		20.0	3.69
2,2',3,3',4,5,6-HpCB	173	ND		20.0	3.69
2,2',3,3',4,5,5'-HpCB	172	ND		20.0	3.69
2,3,3',4,5,5',6-HpCB	192	ND		20.0	3.69
2,2',3,4,4',5,5'-HpCB	180	ND		20.0	3.69
2,3,3',4',5,5',6-HpCB	193	ND		20.0	3.69
2,3,3',4,4',5',6-HpCB	191	ND		20.0	3.69
2,2',3,3',4,4',5-HpCB	170	ND		20.0	3.69
2,3,3',4,4',5,6-HpCB	190	ND		20.0	3.69
2,3,3',4,4',5,5'-HpCB	189	ND		20.0	3.69
2,2',3,3',5,5',6,6'-OcCB	202	ND		20.0	4.31
2,2',3,3',4,5',6,6'-OcCB	201	ND		20.0	4.31
2,2',3,4,4',5,6,6'-OcCB	204	ND		20.0	4.31
2,2',3,3',4,4',6,6'-OcCB	197	ND		20.0	4.31
2,2',3,3',4,5,6,6'-OcCB	200	ND		20.0	4.31
2,2',3,3',4,5,5',6-OcCB	198	ND		20.0	4.31
2,2',3,3',4,5,5',6'-OcCB	199	ND		20.0	4.31
2,2',3,3',4,4',5,6'-/2,2',3,4,4',5,5',6-OcCB	196/203	ND		20.0	4.31
2,2',3,3',4,4',5,6-OcCB	195	ND		20.0	7.16
2,2',3,3',4,4',5,5'-OcCB	194	ND		20.0	7.16
2,3,3',4,4',5,5',6-OcCB	205	ND		20.0	7.16
2,2',3,3',4,5,5',6,6'-NoCB	208	ND		20.0	3.75
2,2',3,3',4,4',5,6,6'-NoCB	207	ND		20.0	3.75
2,2',3,3',4,4',5,5',6-NoCB	206	ND		20.0	5.61
Decachlorobiphenyl	209	ND		20.0	4.14

Sample ID: Method Blank

		Ceres ID:	0-3448-MB	**Date Received:**	NA
Project:	A5C1257	**QC Batch #:**	3448	**Date Extracted:**	20-Mar-25
Matrix:	Aqueous	**Sample Size:**	1.000 L	**Analyzed Date:**	23-Mar-25

Totals	**Chlorination Level**	**Conc. (pg/L)**	**Qual.**	**RL**
Monochlorobiphenyl	MoCB	0		20.0
Dichlorobiphenyl	DiCB	0		20.0
Trichlorobiphenyl	TrCB	0		20.0
Tetrachlorobiphenyl	TeCB	0		20.0
Pentachlorobiphenyl	PeCB	0		20.0
Hexachlorobiphenyl	HxCB	0		20.0
Heptachlorobiphenyl	HpCB	0		20.0
Octachlorobiphenyl	OcCB	0		20.0
Nonachlorobiphenyl	NoCB	0		20.0
Decachlorobiphenyl	DeCB	ND		20.0

Labeled Standards	**Congener #**	**% Rec.**	**Limits**
$^{13}C_{12}$-2-MoCB	1	129	5-145
$^{13}C_{12}$-4-MoCB	3	109	5-145
$^{13}C_{12}$-2,2'-DiCB	4	109	5-145
$^{13}C_{12}$-4,4'-DiCB	15	78.3	5-145
$^{13}C_{12}$-2,2',6-TrCB	19	105	5-145
$^{13}C_{12}$-3,4,4'-TrCB	37	34.4	5-145
$^{13}C_{12}$-2,2',6,6'-TeCB	54	58.9	5-145
$^{13}C_{12}$-3,4,4',5-TeCB	81	98.4	10-145
$^{13}C_{12}$-3,3',4,4'-TeCB	77	99.1	10-145
$^{13}C_{12}$-2,2',4,6,6'-PeCB	104	76.8	10-145
$^{13}C_{12}$-2,3',4,4',5'-PeCB	123	100	10-145
$^{13}C_{12}$-2,3',4,4',5-PeCB	118	102	10-145
$^{13}C_{12}$-2,3,4,4',5-PeCB	114	88.6	10-145
$^{13}C_{12}$-2,3,3',4,4'-PeCB	105	94.5	10-145
$^{13}C_{12}$-3,3',4,4',5-PeCB	126	90.5	10-145
$^{13}C_{12}$-2,2',4,4',6,6'-HxCB	155	119	10-145
$^{13}C_{12}$-2,3',4,4',5,5'-HxCB	167	98.4	10-145
$^{13}C_{12}$-2,3,3',4,4',5-HxCB	156	89.8	10-145
$^{13}C_{12}$-2,3,3',4,4',5'-HxCB	157	103	10-145
$^{13}C_{12}$-3,3',4,4',5,5'-HxCB	169	104	10-145
$^{13}C_{12}$-2,2',3,4',5,6,6'-HpCB	188	93.5	10-145
$^{13}C_{12}$-2,3,3',4,4',5,5'-HpCB	189	104	10-145
$^{13}C_{12}$-2,2',3,3',5,5',6,6'-OcCB	202	126	10-145
$^{13}C_{12}$-2,3,3',4,4',5,5',6-OcCB	205	94.3	10-145
$^{13}C_{12}$-2,2',3,3',4,5,5',6,6'-NoCB	208	99.7	10-145
$^{13}C_{12}$-2,2',3,3',4,4',5,5',6-NoCB	206	113	10-145
$^{13}C_{12}$-Decachlorobiphenyl	209	100	10-145
Cleanup Standards			
$^{13}C_{12}$-2,4,4'-TrCB	28	43.7	5-145
$^{13}C_{12}$-2,3,3',5,5'-PeCB	111	111	10-145
$^{13}C_{12}$-2,2',3,3',5,5',6-HpCB	178	104	10-145

Sample ID: **Ongoing Precision and Recovery (OPR)**

		Ceres ID:	0-3448-OPR	**Date Received:**	NA
Project:	A5C1257	**QC Batch #:**	3448	**Date Extracted:**	20-Mar-25
Matrix:	Aqueous	**Sample Size:**	1.000 L	**Analyzed Date:**	23-Mar-25

Analyte	**Congener #**	**Units**	**Conc. Found**	**Limits**
2-MoCB	1	ng/mL	32.6	30-67.5
4-MoCB	3	ng/mL	36.2	30-67.5
2,2'-/2,6-DiCB	4/10	ng/mL	87.1	60-135
4,4'-DiCB	15	ng/mL	39.7	30-67.5
2,2',6-TrCB	19	ng/mL	44.6	30-67.5
3,4,4'-TrCB	37	ng/mL	33.6	30-67.5
2,2',6,6'-TeCB	54	ng/mL	56.8	30-67.5
3,4,4',5-TeCB	81	ng/mL	39.1	30-67.5
3,3',4,4'-TeCB	77	ng/mL	44.9	30-67.5
2,2',4,6,6'-PeCB	104	ng/mL	42.5	30-67.5
2,3',4,4',5'-PeCB	123	ng/mL	43.5	30-67.5
2,3,3',4,5-/2,3',4,4',5-PeCB	106/118	ng/mL	83.9	60-135
2,3,4,4',5-PeCB	114	ng/mL	42.7	30-67.5
2,3,3',4,4'-PeCB	105	ng/mL	46.5	30-67.5
3,3',4,4',5-PeCB	126	ng/mL	46.2	30-67.5
2,2',4,4',6,6'-HxCB	155	ng/mL	45.1	30-67.5
2,3',4,4',5,5'-HxCB	167	ng/mL	42.5	30-67.5
2,3,3',4,4',5-HxCB	156	ng/mL	42.4	30-67.5
2,3,3',4,4',5'-HxCB	157	ng/mL	45.5	30-67.5
3,3',4,4',5,5'-HxCB	169	ng/mL	42.0	30-67.5
2,2',3,4',5,6,6'-HpCB	188	ng/mL	43.6	30-67.5
2,3,3',4,4',5,5'-HpCB	189	ng/mL	47.5	30-67.5
2,2',3,3',5,5',6,6'-OcCB	202	ng/mL	42.7	30-67.5
2,3,3',4,4',5,5',6-OcCB	205	ng/mL	46.5	30-67.5
2,2',3,3',4,5,5',6,6'-NoCB	208	ng/mL	43.8	30-67.5
2,2',3,3',4,4',5,5',6-NoCB	206	ng/mL	42.5	30-67.5
Decachlorobiphenyl	209	ng/mL	42.7	30-67.5

Sample ID: **Ongoing Precision and Recovery (OPR)**

		Ceres ID:	0-3448-OPR	**Date Received:**	NA
Project:	A5C1257	**QC Batch #:**	3448	**Date Extracted:**	20-Mar-25
Matrix:	Aqueous	**Sample Size:**	1.000 L	**Analyzed Date:**	23-Mar-25

Labeled Standards	**Congener #**	**Units**		**Limits**
$^{13}C_{12}$-2-MoCB	1	%	106	15-145
$^{13}C_{12}$-4-MoCB	3	%	84.5	15-145
$^{13}C_{12}$-2,2'-DiCB	4	%	114	15-145
$^{13}C_{12}$-4,4'-DiCB	15	%	88.8	15-145
$^{13}C_{12}$-2,2',6-TrCB	19	%	95.5	15-145
$^{13}C_{12}$-3,4,4'-TrCB	37	%	45.9	15-145
$^{13}C_{12}$-2,2',6,6'-TeCB	54	%	65.6	15-145
$^{13}C_{12}$-3,4,4',5-TeCB	81	%	103	40-145
$^{13}C_{12}$-3,3',4,4'-TeCB	77	%	105	40-145
$^{13}C_{12}$-2,2',4,6,6'-PeCB	104	%	87.3	40-145
$^{13}C_{12}$-2,3',4,4',5'-PeCB	123	%	106	40-145
$^{13}C_{12}$-2,3',4,4',5-PeCB	118	%	108	40-145
$^{13}C_{12}$-2,3,4,4',5-PeCB	114	%	89.4	40-145
$^{13}C_{12}$-2,3,3',4,4'-PeCB	105	%	88.4	40-145
$^{13}C_{12}$-3,3',4,4',5-PeCB	126	%	84.5	40-145
$^{13}C_{12}$-2,2',4,4',6,6'-HxCB	155	%	111	40-145
$^{13}C_{12}$-2,3',4,4',5,5'-HxCB	167	%	108	40-145
$^{13}C_{12}$-2,3,3',4,4',5-HxCB	156	%	110	40-145
$^{13}C_{12}$-2,3,3',4,4',5'-HxCB	157	%	110	40-145
$^{13}C_{12}$-3,3',4,4',5,5'-HxCB	169	%	108	40-145
$^{13}C_{12}$-2,2',3,4',5,6,6'-HpCB	188	%	97.4	40-145
$^{13}C_{12}$-2,3,3',4,4',5,5'-HpCB	189	%	102	40-145
$^{13}C_{12}$-2,2',3,3',5,5',6,6'-OcCB	202	%	104	40-145
$^{13}C_{12}$-2,3,3',4,4',5,5',6-OcCB	205	%	96.6	40-145
$^{13}C_{12}$-2,2',3,3',4,5,5',6,6'-NoCB	208	%	107	40-145
$^{13}C_{12}$-2,2',3,3',4,4',5,5',6-NoCB	206	%	116	40-145
$^{13}C_{12}$-Decachlorobiphenyl	209	%	89.7	40-145
Cleanup Standards				
$^{13}C_{12}$-2,4,4'-TrCB	28	%	49.2	15-145
$^{13}C_{12}$-2,3,3',5,5'-PeCB	111	%	112	40-145
$^{13}C_{12}$-2,2',3,3',5,5',6-HpCB	178	%	103	40-145

Sample ID: MW-3

Project ID:	A5C1257	**Ceres ID:**	19274-001	**Date Received:**	3/13/2025
Matrix:	Aqueous	**QC Batch #:**	3448	**Date Extracted:**	3/20/2025
Date & Time Sampled:	3/11/2025 12:10	**Sample Size:**	0.987 L	**Analyzed Date:**	3/23/2025

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2-MoCB	1	132		20.3	2.08
3-MoCB	2	ND		20.3	3.49
4-MoCB	3	ND		20.3	3.49
2,2'-/2,6-DiCB	4/10	298		20.3	8.07
2,4-/2,5-DiCB	7/9	115		20.3	8.07
2,3'-DiCB	6	359		20.3	8.07
2,3-/2,4'-DiCB	5/8	837		20.3	8.07
3,5-DiCB	14	ND		20.3	8.31
3,3'-DiCB	11	1200		20.3	8.31
3,4-/3,4'-DiCB	12/13	ND		20.3	8.31
4,4'-DiCB	15	159		20.3	8.31
2,2',6-TrCB	19	163		20.3	4.97
2,4,6-TrCB	30	ND		20.3	4.97
2,2',5-TrCB	18	2490		20.3	4.97
2,2',4-TrCB	17	952		20.3	4.97
2,3,6-/2,3',6-TrCB	24/27	204		20.3	4.97
2,2',3-/2,4',6-TrCB	16/32	1940		20.3	4.97
2',3,5-TrCB	34	ND		20.3	5.86
2,3,5-TrCB	23	ND		20.3	5.86
2,4,5-TrCB	29	ND		20.3	5.86
2,3',5-TrCB	26	99.9		20.3	5.86
2,3',4-TrCB	25	56.2		20.3	5.86
2,4',5-TrCB	31	580		20.3	5.86
2,4,4'-TrCB	28	571		20.3	5.86
2,3,3'-/2,3,4-/2',3,4-TrCB	20/21/33	510		20.3	5.86
2,3,4'-TrCB	22	339		20.3	5.86
3,3',5-TrCB	36	ND		20.3	5.86
3,4',5-TrCB	39	ND		20.3	5.86
3,4,5-TrCB	38	28.9		20.3	5.86
3,3',4-TrCB	35	ND		20.3	5.86
3,4,4'-TrCB	37	198		20.3	5.86
2,2',6,6'-TeCB	54	102		20.3	3.75
2,2',4,6-TeCB	50	ND		20.3	3.75
2,2',5,6'-TeCB	53	614		20.3	3.75
2,2',4,6'-TeCB	51	383		20.3	3.75
2,2',3,6-TeCB	45	346		20.3	3.75
2,2',3,6'-TeCB	46	204		20.3	3.75
2,2',5,5'-/2,3',4,6-TeCB	52/69	2230		20.3	3.75
2,3',5',6-TeCB	73	ND		20.3	3.75
2,2',3-5-/2,2',4,5'-TeCB	43/49	2100		20.3	3.75
2,2',4,4'-TeCB	47	851		20.3	3.75
2,2',4,5-/2,4,4',6-TeCB	48/75	624		20.3	3.75
2,3,5,6-TeCB	65	ND		20.3	3.75
2,3,4,6-TeCB	62	ND		20.3	3.75

Sample ID: MW-3

Project:	A5C1257	**Ceres ID:**	19274-001	**Date Received:**	13-Mar-25
Matrix:	Aqueous	**QC Batch #:**	3448	**Date Extracted:**	20-Mar-25
Date & Time Sampled:	3/11/2025 12:10	**Sample Size:**	0.987 L	**Analyzed Date:**	23-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2,2',3,5'-TeCB	44	2240		20.3	3.75
2,2',3,4'-/2,3,3',6-TeCB	42/59	917		20.3	3.75
2,2',3,4-/2,3,4',6-/2,3',4',6-/2,3',5,5'-TeCB	41/64/71/72	1260		20.3	3.75
2,3',4,5'-TeCB	68	21.6		20.3	3.75
2,2',3,3'-TeCB	40	322		20.3	3.75
2,3,3',5-TeCB	57	10.1	J	20.3	3.75
2,3',4,5-TeCB	67	60.1		20.3	3.75
2,3,3',5'-TeCB	58	ND		20.3	3.75
2,3,4',5-TeCB	63	59.7		20.3	3.75
2,4,4',5-TeCB	74	536		20.3	3.75
2,3,4,5-/2,3',4',5-TeCB	61/70	1160		20.3	3.75
2,3',4,4'-/2',3,4,5-TeCB	66/76	915		20.3	3.75
3,3',5,5'-TeCB	80	ND		20.3	3.75
2,3,3',4-TeCB	55	25.9		20.3	3.75
2,3,3',4'-/2,3,4,4'-TeCB	56/60	504		20.3	3.59
3,3',4,5'-TeCB	79	ND		20.3	3.59
3,3',4,5-TeCB	78	ND		20.3	3.59
3,4,4',5-TeCB	81	ND		20.3	3.59
3,3',4,4'-TeCB	77	25.2		20.3	5.22
2,2',4,6,6'-PeCB	104	ND		20.3	4.75
2,2',3,6,6'-PeCB	96	ND		20.3	4.75
2,2',4,5'6-PeCB	103	65.9		20.3	4.75
2,2',4,4',6-PeCB	100	ND		20.3	4.75
2,2',3,5,6'-PeCB	94	ND		20.3	4.75
2,2',3,5,6-/2,2',3,5',6-/2,2',3',4,6-/2,2',4,5,6'-PeCB	93/95/98/102	1220		20.3	4.75
2,2',3,4,6-PeCB	88/91	256		20.3	4.75
2,3',4,5',6-PeCB	121	ND		20.3	4.75
2,2',3,3',6-/2,2',3,5,5'-PeCB	84/92	450		20.3	3.46
2,2',3,4,6'-PeCB	89	18.0	J	20.3	3.46
2,2',3,4',5-/2,2',4,5,5'-PeCB	90/101	840		20.3	3.46
2,3,3',5',6-PeCB	113	ND		20.3	3.46
2,2',4,4',5-PeCB	99	363		20.3	3.46
2,2',3,3',5-PeCB	83	35.6		20.3	3.46
2,3,3',5,6-/2,3',4,4',6-PeCB	112/119	25.7		20.3	3.46
2,3,3',4,6-PeCB	109	ND		20.3	3.46
2,2',3',4,5-PeCB	97	151		20.3	3.46
2,2',3,4,5-PeCB	86	ND		20.3	3.46
2,2',3,4,5'-/2,3,4',5,6-/2',3,4,5,6'-PeCB	87/117/125	137		20.3	3.46
2,3,3',5,5'-/2,3,4,4',6-PeCB	111/115	ND		20.3	3.46
2,2',3,4,4'-/2,3,4,5,6-PeCB	85/116	57.8		20.3	3.46
2,3',4,5,5'-PeCB	120	ND		20.3	3.46
2-3,3',4',6-PeCB	110	527		20.3	3.46

Sample ID: MW-3

Project:	A5C1257	**Ceres ID:**	19274-001	**Date Received:**	13-Mar-25
Matrix:	Aqueous	**QC Batch #:**	3448	**Date Extracted:**	20-Mar-25
Date & Time Sampled:	3/11/2025 12:10	**Sample Size:**	0.987 L	**Analyzed Date:**	23-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2,2',3,3',4-PeCB	82	69.8		20.3	3.46
2',3,4,5,5'-PeCB	124	ND		20.3	3.46
2,3,3',4',5-/2,3,3',4,5'-PeCB	107/108	36.4		20.3	3.46
2,3',4,4',5'-PeCB	123	ND		20.3	3.46
2,3,3',4,5-/2,3',4,4',5-PeCB	106/118	246		20.3	5.58
2,3,4,4',5-PeCB	114	ND		20.3	3.25
2',3,3',4,5-PeCB	122	ND		20.3	3.25
2,3,3',4,4'-PeCB	105	68.5		20.3	4.87
3,3',4,5,5'-PeCB	127	ND		20.3	4.87
3,3',4,4',5-PeCB	126	ND		20.3	5.73
2,2',4,4',6,6'-HxCB	155	ND		20.3	4.86
2,2',3,4',6,6'-HxCB	150	ND		20.3	4.86
2,2',3,5,6,6'-HxCB	152	ND		20.3	4.86
2,2',3,4,6,6'-HxCB	145	ND		20.3	4.86
2,2',3,3',6,6'-HxCB	136	180		20.3	4.86
2,2',3,4',5,6'-HxCB	148	ND		20.3	4.86
2,2',4,4',5',6-HxCB	154	94.1		20.3	4.86
2,2',3,5,5',6-HxCB	151	350		20.3	4.86
2,2',3,3',5,6'-HxCB	135	226		20.3	4.86
2,2',3,4,5',6-HxCB	144	ND		20.3	4.86
2,2',3,4',5,6-HxCB	147	ND		20.3	4.86
2,2',3,4,4',6-/2,2',3,4',5',6-HxCB	139/149	895		20.3	4.86
2,2',3,4,4',6'-HxCB	140	ND		20.3	4.86
2,2',3,3',5,6-/2,2',3,4,5,6'-HxCB	134/143	30.0		20.3	5.19
2,2',3,3',4,6-/2,2',3,4,5,6-HxCB	131/142	47.2		20.3	5.19
2,2',3,3',5,5'-HxCB	133	ND		20.3	5.19
2,2',3,3',4,6'-/2,2',3,4',5,5'-HxCB	132/146	271		20.3	5.19
2,3,3',4,5',6-/2,3,3',5,5',6-HxCB	161/165	184		20.3	5.19
2,2',4,4',5,5'-HxCB	153	851		20.3	5.19
2,3',4,4',5',6-HxCB	168	ND		20.3	5.19
2,2',3,4,5,5'-HxCB	141	104		20.3	5.19
2,2',3,4,4',5-HxCB	137	ND		20.3	5.19
2,2',3,3',4,5'-HxCB	130	61.2		20.3	5.19
2,2',3,4,4',5-/2,3,3',4',5,6-/2,3,3',4',5',6-HxCB	138/163/164	544		20.3	5.19
2,3,3',4,4',6-/2,3,3',4,5,6-HxCB	158/160	32.0		20.3	5.19
2,2',3,3',4,5-HxCB	129	ND		20.3	5.19
2,3,4,4',5,6-HxCB	166	ND		20.3	5.19
2,3,3',4,5,5'-HxCB	159	17.5	J	20.3	5.19
2,2',3,3',4,4'-/2,3,3',4',5,5'-HxCB	128/162	36.9		20.3	5.19
2,3',4,4',5,5'-HxCB	167	12.8	J	20.3	5.19
2,3,3',4,4',5-HxCB	156	36.3		20.3	4.13
2,3,3',4,4',5'-HxCB	157	ND		20.3	6.07
3,3',4,4',5,5'-HxCB	169	ND		20.3	5.20

Sample ID: MW-3

Project:	A5C1257	**Ceres ID:**	19274-001	**Date Received:**	13-Mar-25
Matrix:	Aqueous	**QC Batch #:**	3448	**Date Extracted:**	20-Mar-25
Date & Time Sampled:	3/11/2025 12:10	**Sample Size:**	0.987 L	**Analyzed Date:**	23-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2,2',3,4',5,6,6'-HpCB	188	ND		20.3	5.69
2,2',3,4,4',6,6'-HpCB	184	ND		20.3	5.69
2,2',3,3',5,6,6'-HpCB	179	226		20.3	5.69
2,2',3,3',4,6,6'-HpCB	176	66.8		20.3	5.69
2,2',3,4,5,6,6'-HpCB	186	ND		20.3	5.69
2,2',3,3',5,5',6-HpCB	178	121		20.3	5.69
2,2',3,3',4,5',6-HpCB	175	20.5		20.3	5.69
2,2',3,4,4',5,6'-/2,2',3,4',5,5',6-HpCB	182/187	641		20.3	5.69
2,2',3,4,4',5',6-HpCB	183	198		20.3	5.69
2,2',3,4,5,5',6-HpCB	185	40.0		20.3	3.69
2,2',3,3',4,5,6'-HpCB	174	403		20.3	3.69
2,2',3,4,4',5,6-HpCB	181	ND		20.3	3.69
2,2',3,3',4',5,6-HpCB	177	267		20.3	3.69
2,2',3,3',4,4',6-HpCB	171	86.6		20.3	3.69
2,2',3,3',4,5,6-HpCB	173	ND		20.3	3.69
2,2',3,3',4,5,5'-HpCB	172	70.5		20.3	3.69
2,3,3',4,5,5',6-HpCB	192	ND		20.3	3.69
2,2',3,4,4',5,5'-HpCB	180	821		20.3	3.69
2,3,3',4',5,5',6-HpCB	193	44.2		20.3	3.69
2,3,3',4,4',5',6-HpCB	191	ND		20.3	3.69
2,2',3,3',4,4',5-HpCB	170	297		20.3	3.69
2,3,3',4,4',5,6-HpCB	190	67.8		20.3	3.69
2,3,3',4,4',5,5'-HpCB	189	ND		20.3	3.69
2,2',3,3',5,5',6,6'-OcCB	202	32.8		20.3	4.31
2,2',3,3',4,5',6,6'-OcCB	201	31.4		20.3	4.31
2,2',3,4,4',5,6,6'-OcCB	204	ND		20.3	4.31
2,2',3,3',4,4',6,6'-OcCB	197	ND		20.3	4.31
2,2',3,3',4,5,6,6'-OcCB	200	ND		20.3	4.31
2,2',3,3',4,5,5',6-OcCB	198	ND		20.3	4.31
2,2',3,3',4,5,5',6'-OcCB	199	220		20.3	4.31
2,2',3,3',4,4',5,6'-/2,2',3,4,4',5,5',6-OcCB	196/203	198		20.3	4.31
2,2',3,3',4,4',5,6-OcCB	195	55.2		20.3	7.16
2,2',3,3',4,4',5,5'-OcCB	194	147		20.3	7.16
2,3,3',4,4',5,5',6-OcCB	205	ND		20.3	7.16
2,2',3,3',4,5,5',6,6'-NoCB	208	ND		20.3	3.75
2,2',3,3',4,4',5,6,6'-NoCB	207	ND		20.3	3.75
2,2',3,3',4,4',5,5',6-NoCB	206	29.6		20.3	5.61
Decachlorobiphenyl	209	ND		20.3	4.14

Sample ID: MW-3

Project:	A5C1257	**Ceres ID:**	19274-001	**Date Received:**	13-Mar-25
Matrix:	Aqueous	**QC Batch #:**	3448	**Date Extracted:**	20-Mar-25
Date & Time Sampled:	3/11/2025 12:10	**Sample Size:**	0.987 L	**Analyzed Date:**	23-Mar-25

Totals	**Chlorination Level**	**Conc. (pg/L)**	**Qual.**	**RL**
Monochlorobiphenyl	MoCB	132		20.3
Dichlorobiphenyl	DiCB	2968		20.3
Trichlorobiphenyl	TrCB	8132		20.3
Tetrachlorobiphenyl	TeCB	15511		20.3
Pentachlorobiphenyl	PeCB	4568		20.3
Hexachlorobiphenyl	HxCB	3973		20.3
Heptachlorobiphenyl	HpCB	3370		20.3
Octachlorobiphenyl	OcCB	684		20.3
Nonachlorobiphenyl	NoCB	29.6		20.3
Decachlorobiphenyl	DeCB	ND		20.3

Labeled Standards	**Congener #**	**% Rec.**	**Limits**
$^{13}C_{12}$-2-MoCB	1	22.2	5-145
$^{13}C_{12}$-4-MoCB	3	39.0	5-145
$^{13}C_{12}$-2,2'-DiCB	4	47.9	5-145
$^{13}C_{12}$-4,4'-DiCB	15	116	5-145
$^{13}C_{12}$-2,2',6-TrCB	19	101	5-145
$^{13}C_{12}$-3,4,4'-TrCB	37	25.5	5-145
$^{13}C_{12}$-2,2',6,6'-TeCB	54	58.9	5-145
$^{13}C_{12}$-3,4,4',5-TeCB	81	79.0	10-145
$^{13}C_{12}$-3,3',4,4'-TeCB	77	79.0	10-145
$^{13}C_{12}$-2,2',4,6,6'-PeCB	104	56.3	10-145
$^{13}C_{12}$-2,3',4,4',5'-PeCB	123	92.6	10-145
$^{13}C_{12}$-2,3',4,4',5-PeCB	118	92.8	10-145
$^{13}C_{12}$-2,3,4,4',5-PeCB	114	85.5	10-145
$^{13}C_{12}$-2,3,3',4,4'-PeCB	105	93.5	10-145
$^{13}C_{12}$-3,3',4,4',5-PeCB	126	93.9	10-145
$^{13}C_{12}$-2,2',4,4',6,6'-HxCB	155	108	10-145
$^{13}C_{12}$-2,3',4,4',5,5'-HxCB	167	98.0	10-145
$^{13}C_{12}$-2,3,3',4,4',5-HxCB	156	94.7	10-145
$^{13}C_{12}$-2,3,3',4,4',5'-HxCB	157	106	10-145
$^{13}C_{12}$-3,3',4,4',5,5'-HxCB	169	112	10-145
$^{13}C_{12}$-2,2',3,4',5,6,6'-HpCB	188	60.1	10-145
$^{13}C_{12}$-2,3,3',4,4',5,5'-HpCB	189	71.2	10-145
$^{13}C_{12}$-2,2',3,3',5,5',6,6'-OcCB	202	90.1	10-145
$^{13}C_{12}$-2,3,3',4,4',5,5',6-OcCB	205	74.7	10-145
$^{13}C_{12}$-2,2',3,3',4,5,5',6,6'-NoCB	208	66.6	10-145
$^{13}C_{12}$-2,2',3,3',4,4',5,5',6-NoCB	206	87.8	10-145
$^{13}C_{12}$-Decachlorobiphenyl	209	67.6	10-145
Cleanup Standards			
$^{13}C_{12}$-2,4,4'-TrCB	28	30.8	5-145
$^{13}C_{12}$-2,3,3',5,5'-PeCB	111	122	10-145
$^{13}C_{12}$-2,2',3,3',5,5',6-HpCB	178	88.9	10-145

Sample ID: MW-22

Project ID:	A5C1257	**Ceres ID:**	19274-002	**Date Received:**	3/13/2025
Matrix:	Aqueous	**QC Batch #:**	3448	**Date Extracted:**	3/20/2025
Date & Time Sampled:	3/11/2025 12:50	**Sample Size:**	0.978 L	**Analyzed Date:**	3/23/2025

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2-MoCB	1	121		20.4	2.08
3-MoCB	2	ND		20.4	3.49
4-MoCB	3	ND		20.4	3.49
2,2'-/2,6-DiCB	4/10	407.0		20.4	8.07
2,4-/2,5-DiCB	7/9	185		20.4	8.07
2,3'-DiCB	6	476		20.4	8.07
2,3-/2,4'-DiCB	5/8	1380		20.4	8.07
3,5-DiCB	14	ND		20.4	8.31
3,3'-DiCB	11	1700		20.4	8.31
3,4-/3,4'-DiCB	12/13	ND		20.4	8.31
4,4'-DiCB	15	356		20.4	8.31
2,2',6-TrCB	19	190		20.4	4.97
2,4,6-TrCB	30	ND		20.4	4.97
2,2',5-TrCB	18	2720		20.4	4.97
2,2',4-TrCB	17	1120		20.4	4.97
2,3,6-/2,3',6-TrCB	24/27	284		20.4	4.97
2,2',3-/2,4',6-TrCB	16/32	2530		20.4	4.97
2',3,5-TrCB	34	ND		20.4	5.86
2,3,5-TrCB	23	ND		20.4	5.86
2,4,5-TrCB	29	ND		20.4	5.86
2,3',5-TrCB	26	256		20.4	5.86
2,3',4-TrCB	25	151		20.4	5.86
2,4',5-TrCB	31	1230		20.4	5.86
2,4,4'-TrCB	28	1220		20.4	5.86
2,3,3'-/2,3,4-/2',3,4-TrCB	20/21/33	1660		20.4	5.86
2,3,4'-TrCB	22	731		20.4	5.86
3,3',5-TrCB	36	ND		20.4	5.86
3,4',5-TrCB	39	ND		20.4	5.86
3,4,5-TrCB	38	ND		20.4	5.86
3,3',4-TrCB	35	ND		20.4	5.86
3,4,4'-TrCB	37	151		20.4	5.86
2,2',6,6'-TeCB	54	305		20.4	3.75
2,2',4,6-TeCB	50	ND		20.4	3.75
2,2',5,6'-TeCB	53	1470		20.4	3.75
2,2',4,6'-TeCB	51	1050		20.4	3.75
2,2',3,6-TeCB	45	338		20.4	3.75
2,2',3,6'-TeCB	46	167		20.4	3.75
2,2',5,5'-/2,3',4,6-TeCB	52/69	2320		20.4	3.75
2,3',5',6-TeCB	73	ND		20.4	3.75
2,2',3-5-/2,2',4,5'-TeCB	43/49	1970		20.4	3.75
2,2',4,4'-TeCB	47	855		20.4	3.75
2,2',4,5-/2,4,4',6-TeCB	48/75	547		20.4	3.75
2,3,5,6-TeCB	65	ND		20.4	3.75
2,3,4,6-TeCB	62	ND		20.4	3.75

Sample ID: **MW-22**

Project:	A5C1257	**Ceres ID:**	19274-002	**Date Received:**	13-Mar-25
Matrix:	Aqueous	**QC Batch #:**	3448	**Date Extracted:**	20-Mar-25
Date & Time Sampled:	3/11/2025 12:50	**Sample Size:**	0.978 L	**Analyzed Date:**	23-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2,2',3,5'-TeCB	44	1910		20.4	3.75
2,2',3,4'-/2,3,3',6-TeCB	42/59	845		20.4	3.75
2,2',3,4-/2,3,4',6-/2,3',4',6-/2,3',5,5'-TeCB	41/64/71/72	2010		20.4	3.75
2,3',4,5'-TeCB	68	ND		20.4	3.75
2,2',3,3'-TeCB	40	528		20.4	3.75
2,3,3',5-TeCB	57	27.8		20.4	3.75
2,3',4,5-TeCB	67	143		20.4	3.75
2,3,3',5'-TeCB	58	ND		20.4	3.75
2,3,4',5-TeCB	63	107		20.4	3.75
2,4,4',5-TeCB	74	831		20.4	3.75
2,3,4,5-/2,3',4',5-TeCB	61/70	1810		20.4	3.75
2,3',4,4'-/2',3,4,5-TeCB	66/76	1830		20.4	3.75
3,3',5,5'-TeCB	80	ND		20.4	3.75
2,3,3',4-TeCB	55	95.5		20.4	3.75
2,3,3',4'-/2,3,4,4'-TeCB	56/60	733		20.4	3.59
3,3',4,5'-TeCB	79	24.1		20.4	3.59
3,3',4,5-TeCB	78	ND		20.4	3.59
3,4,4',5-TeCB	81	ND		20.4	3.59
3,3',4,4'-TeCB	77	33.0		20.4	5.22
2,2',4,6,6'-PeCB	104	ND		20.4	4.75
2,2',3,6,6'-PeCB	96	ND		20.4	4.75
2,2',4,5'6-PeCB	103	ND		20.4	4.75
2,2',4,4',6-PeCB	100	52.5		20.4	4.75
2,2',3,5,6'-PeCB	94	42.3		20.4	4.75
2,2',3,5,6-/2,2',3,5',6-/2,2',3',4,6-/2,2',4,5,6'-PeCB	93/95/98/102	2050		20.4	4.75
2,2',3,4,6-PeCB	88/91	394		20.4	4.75
2,3',4,5',6-PeCB	121	ND		20.4	4.75
2,2',3,3',6-/2,2',3,5,5'-PeCB	84/92	581		20.4	3.46
2,2',3,4,6'-PeCB	89	21.8		20.4	3.46
2,2',3,4',5-/2,2',4,5,5'-PeCB	90/101	1150		20.4	3.46
2,3,3',5',6-PeCB	113	ND		20.4	3.46
2,2',4,4',5-PeCB	99	530		20.4	3.46
2,2',3,3',5-PeCB	83	66.7		20.4	3.46
2,3,3',5,6-/2,3',4,4',6-PeCB	112/119	45.1		20.4	3.46
2,3,3',4,6-PeCB	109	ND		20.4	3.46
2,2',3',4,5-PeCB	97	232		20.4	3.46
2,2',3,4,5-PeCB	86	ND		20.4	3.46
2,2',3,4,5'-/2,3,4',5,6-/2',3,4,5,6'-PeCB	87/117/125	190		20.4	3.46
2,3,3',5,5'-/2,3,4,4',6-PeCB	111/115	14.4	J	20.4	3.46
2,2',3,4,4'-/2,3,4,5,6-PeCB	85/116	86.9		20.4	3.46
2,3',4,5,5'-PeCB	120	ND		20.4	3.46
2-3,3',4',6-PeCB	110	695		20.4	3.46

Sample ID: MW-22

Project:	A5C1257	**Ceres ID:**	19274-002	**Date Received:**	13-Mar-25
Matrix:	Aqueous	**QC Batch #:**	3448	**Date Extracted:**	20-Mar-25
Date & Time Sampled:	3/11/2025 12:50	**Sample Size:**	0.978 L	**Analyzed Date:**	23-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2,2',3,3',4-PeCB	82	104		20.4	3.46
2',3,4,5,5'-PeCB	124	23.3		20.4	3.46
2,3,3',4',5-/2,3,3',4,5'-PeCB	107/108	ND		20.4	3.46
2,3',4,4',5'-PeCB	123	ND		20.4	3.46
2,3,3',4,5-/2,3',4,4',5-PeCB	106/118	340		20.4	5.58
2,3,4,4',5-PeCB	114	ND		20.4	3.25
2',3,3',4,5-PeCB	122	ND		20.4	3.25
2,3,3',4,4'-PeCB	105	98.7		20.4	4.87
3,3',4,5,5'-PeCB	127	ND		20.4	4.87
3,3',4,4',5-PeCB	126	ND		20.4	5.73
2,2',4,4',6,6'-HxCB	155	ND		20.4	4.86
2,2',3,4',6,6'-HxCB	150	ND		20.4	4.86
2,2',3,5,6,6'-HxCB	152	ND		20.4	4.86
2,2',3,4,6,6'-HxCB	145	ND		20.4	4.86
2,2',3,3',6,6'-HxCB	136	236		20.4	4.86
2,2',3,4',5,6'-HxCB	148	ND		20.4	4.86
2,2',4,4',5',6-HxCB	154	110		20.4	4.86
2,2',3,5,5',6-HxCB	151	513		20.4	4.86
2,2',3,3',5,6'-HxCB	135	272		20.4	4.86
2,2',3,4,5',6-HxCB	144	ND		20.4	4.86
2,2',3,4',5,6-HxCB	147	ND		20.4	4.86
2,2',3,4,4',6-/2,2',3,4',5',6-HxCB	139/149	1260		20.4	4.86
2,2',3,4,4',6'-HxCB	140	ND		20.4	4.86
2,2',3,3',5,6-/2,2',3,4,5,6'-HxCB	134/143	38.3		20.4	5.19
2,2',3,3',4,6-/2,2',3,4,5,6-HxCB	131/142	66.8		20.4	5.19
2,2',3,3',5,5'-HxCB	133	ND		20.4	5.19
2,2',3,3',4,6'-/2,2',3,4',5,5'-HxCB	132/146	352		20.4	5.19
2,3,3',4,5',6-/2,3,3',5,5',6-HxCB	161/165	262		20.4	5.19
2,2',4,4',5,5'-HxCB	153	1010		20.4	5.19
2,3',4,4',5',6-HxCB	168	ND		20.4	5.19
2,2',3,4,5,5'-HxCB	141	139		20.4	5.19
2,2',3,4,4',5-HxCB	137	ND		20.4	5.19
2,2',3,3',4,5'-HxCB	130	65.2		20.4	5.19
2,2',3,4,4',5-/2,3,3',4',5,6-/2,3,3',4',5',6-HxCB	138/163/164	692		20.4	5.19
2,3,3',4,4',6-/2,3,3',4,5,6-HxCB	158/160	43.7		20.4	5.19
2,2',3,3',4,5-HxCB	129	ND		20.4	5.19
2,3,4,4',5,6-HxCB	166	ND		20.4	5.19
2,3,3',4,5,5'-HxCB	159	ND		20.4	5.19
2,2',3,3',4,4'-/2,3,3',4',5,5'-HxCB	128/162	56.2		20.4	5.19
2,3',4,4',5,5'-HxCB	167	ND		20.4	5.19
2,3,3',4,4',5-HxCB	156	42.0		20.4	4.13
2,3,3',4,4',5'-HxCB	157	ND		20.4	6.07
3,3',4,4',5,5'-HxCB	169	ND		20.4	5.20

Sample ID: MW-22

Project:	A5C1257	**Ceres ID:**	19274-002	**Date Received:**	13-Mar-25
Matrix:	Aqueous	**QC Batch #:**	3448	**Date Extracted:**	20-Mar-25
Date & Time Sampled:	3/11/2025 12:50	**Sample Size:**	0.978 L	**Analyzed Date:**	23-Mar-25

Analyte	Congener #	Conc. (pg/L)	Qual.	RL	MDL
2,2',3,4',5,6,6'-HpCB	188	ND		20.4	5.69
2,2',3,4,4',6,6'-HpCB	184	ND		20.4	5.69
2,2',3,3',5,6,6'-HpCB	179	211		20.4	5.69
2,2',3,3',4,6,6'-HpCB	176	55.8		20.4	5.69
2,2',3,4,5,6,6'-HpCB	186	ND		20.4	5.69
2,2',3,3',5,5',6-HpCB	178	115		20.4	5.69
2,2',3,3',4,5',6-HpCB	175	ND		20.4	5.69
2,2',3,4,4',5,6'-/2,2',3,4',5,5',6-HpCB	182/187	550		20.4	5.69
2,2',3,4,4',5',6-HpCB	183	146		20.4	5.69
2,2',3,4,5,5',6-HpCB	185	27.3		20.4	3.69
2,2',3,3',4,5,6'-HpCB	174	411		20.4	3.69
2,2',3,4,4',5,6-HpCB	181	ND		20.4	3.69
2,2',3,3',4',5,6-HpCB	177	237		20.4	3.69
2,2',3,3',4,4',6-HpCB	171	69.9		20.4	3.69
2,2',3,3',4,5,6-HpCB	173	ND		20.4	3.69
2,2',3,3',4,5,5'-HpCB	172	48.3		20.4	3.69
2,3,3',4,5,5',6-HpCB	192	ND		20.4	3.69
2,2',3,4,4',5,5'-HpCB	180	759		20.4	3.69
2,3,3',4',5,5',6-HpCB	193	34.4		20.4	3.69
2,3,3',4,4',5',6-HpCB	191	ND		20.4	3.69
2,2',3,3',4,4',5-HpCB	170	314		20.4	3.69
2,3,3',4,4',5,6-HpCB	190	64.1		20.4	3.69
2,3,3',4,4',5,5'-HpCB	189	ND		20.4	3.69
2,2',3,3',5,5',6,6'-OcCB	202	ND		20.4	4.31
2,2',3,3',4,5',6,6'-OcCB	201	ND		20.4	4.31
2,2',3,4,4',5,6,6'-OcCB	204	ND		20.4	4.31
2,2',3,3',4,4',6,6'-OcCB	197	ND		20.4	4.31
2,2',3,3',4,5,6,6'-OcCB	200	ND		20.4	4.31
2,2',3,3',4,5,5',6-OcCB	198	ND		20.4	4.31
2,2',3,3',4,5,5',6'-OcCB	199	213		20.4	4.31
2,2',3,3',4,4',5,6'-/2,2',3,4,4',5,5',6-OcCB	196/203	206		20.4	4.31
2,2',3,3',4,4',5,6-OcCB	195	58.8		20.4	7.16
2,2',3,3',4,4',5,5'-OcCB	194	134		20.4	7.16
2,3,3',4,4',5,5',6-OcCB	205	ND		20.4	7.16
2,2',3,3',4,5,5',6,6'-NoCB	208	ND		20.4	3.75
2,2',3,3',4,4',5,6,6'-NoCB	207	ND		20.4	3.75
2,2',3,3',4,4',5,5',6-NoCB	206	29.4		20.4	5.61
Decachlorobiphenyl	209	ND		20.4	4.14

Sample ID: MW-22

Project:	A5C1257	**Ceres ID:**	19274-002	**Date Received:**	13-Mar-25
Matrix:	Aqueous	**QC Batch #:**	3448	**Date Extracted:**	20-Mar-25
Date & Time Sampled:	3/11/2025 12:50	**Sample Size:**	0.978 L	**Analyzed Date:**	23-Mar-25

Totals	**Chlorination Level**	**Conc. (pg/L)**	**Qual.**	**RL**
Monochlorobiphenyl	MoCB	121		20.4
Dichlorobiphenyl	DiCB	4504		20.4
Trichlorobiphenyl	TrCB	12243		20.4
Tetrachlorobiphenyl	TeCB	19949		20.4
Pentachlorobiphenyl	PeCB	6718		20.4
Hexachlorobiphenyl	HxCB	5158		20.4
Heptachlorobiphenyl	HpCB	3043		20.4
Octachlorobiphenyl	OcCB	612		20.4
Nonachlorobiphenyl	NoCB	29.4		20.4
Decachlorobiphenyl	DeCB	ND		20.4

Labeled Standards	**Congener #**	**% Rec.**	**Limits**
$^{13}C_{12}$-2-MoCB	1	10.9	5-145
$^{13}C_{12}$-4-MoCB	3	18.3	5-145
$^{13}C_{12}$-2,2'-DiCB	4	31.3	5-145
$^{13}C_{12}$-4,4'-DiCB	15	84.7	5-145
$^{13}C_{12}$-2,2',6-TrCB	19	97.0	5-145
$^{13}C_{12}$-3,4,4'-TrCB	37	7.89	5-145
$^{13}C_{12}$-2,2',6,6'-TeCB	54	38.1	5-145
$^{13}C_{12}$-3,4,4',5-TeCB	81	67.9	10-145
$^{13}C_{12}$-3,3',4,4'-TeCB	77	70.4	10-145
$^{13}C_{12}$-2,2',4,6,6'-PeCB	104	35.7	10-145
$^{13}C_{12}$-2,3',4,4',5'-PeCB	123	62.8	10-145
$^{13}C_{12}$-2,3',4,4',5-PeCB	118	62.7	10-145
$^{13}C_{12}$-2,3,4,4',5-PeCB	114	57.5	10-145
$^{13}C_{12}$-2,3,3',4,4'-PeCB	105	59.0	10-145
$^{13}C_{12}$-3,3',4,4',5-PeCB	126	60.9	10-145
$^{13}C_{12}$-2,2',4,4',6,6'-HxCB	155	66.3	10-145
$^{13}C_{12}$-2,3',4,4',5,5'-HxCB	167	61.6	10-145
$^{13}C_{12}$-2,3,3',4,4',5-HxCB	156	61.6	10-145
$^{13}C_{12}$-2,3,3',4,4',5'-HxCB	157	62.8	10-145
$^{13}C_{12}$-3,3',4,4',5,5'-HxCB	169	72.4	10-145
$^{13}C_{12}$-2,2',3,4',5,6,6'-HpCB	188	45.6	10-145
$^{13}C_{12}$-2,3,3',4,4',5,5'-HpCB	189	51.5	10-145
$^{13}C_{12}$-2,2',3,3',5,5',6,6'-OcCB	202	55.7	10-145
$^{13}C_{12}$-2,3,3',4,4',5,5',6-OcCB	205	53.1	10-145
$^{13}C_{12}$-2,2',3,3',4,5,5',6,6'-NoCB	208	44.6	10-145
$^{13}C_{12}$-2,2',3,3',4,4',5,5',6-NoCB	206	53.0	10-145
$^{13}C_{12}$-Decachlorobiphenyl	209	43.4	10-145
Cleanup Standards			
$^{13}C_{12}$-2,4,4'-TrCB	28	25.2	5-145
$^{13}C_{12}$-2,3,3',5,5'-PeCB	111	129	10-145
$^{13}C_{12}$-2,2',3,3',5,5',6-HpCB	178	91.2	10-145

Section VI: Sample Tracking

SUBCONTRACT ORDER

Apex Laboratories

A5C1257

AAC 3/12/25

SENDING LABORATORY:

Apex Laboratories
6700 S.W. Sandburg Street
Tigard, OR 97223
Phone: (503) 718-2323
Fax: (503) 336-0745
Project Manager: Darrell Auvil

RECEIVING LABORATORY:

Ceres Analytical Laboratory, Inc
4919 Windplay Drive, Suite 1
El Dorado Hills, CA 95762
Phone :(916) 932-5011
Fax: -9

Sample Name: MW-3 **Sampled: 03/11/25 12:10** (A5C1257-01)

Analysis	Due	Expires	Comments
1668C PCB Congeners (SUB)	03/24/25 17:00	03/11/26 12:10	
Containers Supplied:			
(J)1 L Amber Glass - Non Preserved			

Sample Name: MW-22 **Sampled: 03/11/25 12:50** (A5C1257-02)

Analysis	Due	Expires	Comments
1668C PCB Congeners (SUB)	03/24/25 17:00	03/11/26 12:50	
Containers Supplied:			
(J)1 L Amber Glass - Non Preserved			

* Standard TAT *

Released By	Date	Received By	Date
	3/12/25	UPS Shipper	
UPS Shipper			3/13/25 1122
Released By	Date	Received By	Date

1 of 1

Page ~~2 of 2~~ AAC 3/12/25

Sample Receipt Check List Logged by: HH (initials)

Ceres ID: 19274	Date/Time: 3/13/25 11:22
Client Project ID: A5C1257	Received Temp: 2.3 °C Acceptable: (Y) / N
Chain of Custody Relinquished by signed?	(Y) / N
Chain of Custody Received by signed?	(Y) / N
Custody Seals? Present?	Y / N
Intact?	Y / N
NA:	(NA)
Unlabeled / Illegible Samples	Y / (N)
Proper Containers:	(Y) / N
Preservation Acceptable (Chemical or ~~Temperature~~)?	(Y) / N
Drinking Water, Sodium Thiosulfate present?	Y / (N) / NA
Residual Cl?	Y / (N) / NA
Aqueous sample pH: 7	NA
List COC discrepancies: HH 3/13/25	
List Damaged Samples: HH 3/13/25	

Section VII: Qualifiers/Abbreviations

J	Concentration found below the lower quantitation limit but greater than zero.
B	Analyte present in the associated Method Blank.
E	Concentration found exceeds the Calibration range of the HRGC/HRMS.
D	This analyte concentration was calculated from a dilution.
X	The concentration found is the estimated maximum possible concentration due to chlorinated diphenyl ethers present in the sample.
H	Recovery limits exceeded. See cover letter.
*****	Results taken from dilution.
I	Interference. See cover letter.
Conc.	Concentration Found
DL	Calculated Detection Limit
ND	Non-Detect
% Rec.	Percent Recovery

March 31, 2025 Service Request No:K2502727

Darrell Auvil
Apex Laboratories
6700 SW Sandburg St.
Tigard, OR 97223

Laboratory Results for: A5C1257

Dear Darrell,

Enclosed are the results of the sample(s) submitted to our laboratory March 14, 2025
For your reference, these analyses have been assigned our service request number **K2502727.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3260. You may also contact me via email at Luke.Rahn@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Luke Rahn
Project Manager

ADDRESS 1317 S. 13th Avenue, Kelso, WA 98626
PHONE +1 360 577 7222 | FAX +1 360 636 1068
ALS Group USA, Corp.
dba ALS Environmental

Narrative Documents

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

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Client: Apex Laboratories
Project: A5C1257
Sample Matrix: Water

Service Request: K2502727
Date Received: 03/14/2025

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

Two water samples were received for analysis at ALS Environmental on 03/14/2025. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

General Chemistry:

No significant anomalies were noted with this analysis.

Approved by _____ Date 03/31/2025

SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: MW-3			Lab ID: K2502727-001			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Carbon, Total Organic (TOC)	31.6		0.4	2.0	mg/L	SM 5310 B

CLIENT ID: DUP			Lab ID: K2502727-002			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Carbon, Total Organic (TOC)	20.8		0.4	2.0	mg/L	SM 5310 B

Sample Receipt Information

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

Client: Apex Laboratories **Service Request:**K2502727

Project: A5C1257

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
K2502727-001	MW-3	3/11/2025	1210
K2502727-002	DUP	3/11/2025	1250

SUBCONTRACT ORDER

Apex Laboratories

A5C1257

JS M2502727

DW 03/13/25

SENDING LABORATORY:

Apex Laboratories
6700 S.W. Sandburg Street
Tigard, OR 97223
Phone: (503) 718-2323
Fax: (503) 336-0745
Project Manager: Darrell Auvil

RECEIVING LABORATORY:

ALS Group USA - Kelso
1317 S 13th Avenue
Kelso, WA 98626
Phone :(360) 577-7222
Fax: (360) 636-1068

Sample Name: MW-3 **Sampled: 03/11/25 12:10** (A5C1257-01)

Analysis	Due	Expires	Comments
Total Organic Carbon - H2O (5310C)	03/24/25 17:00	04/08/25 12:10	
Containers Supplied:			
(E)250 mL Poly - Sulfuric (H2SO4)			

id change per client on 3/12/2025 dwa

Sample Name: DUP **Sampled: 03/11/25 12:50** (A5C1257-02)

Analysis	Due	Expires	Comments
Total Organic Carbon - H2O (5310C)	03/24/25 17:00	04/08/25 12:50	
Containers Supplied:			
(E)250 mL Poly - Sulfuric (H2SO4)			

Standard TAT

Released By	Date	Received By	Date
	3/14/25 1106	M. Mulligan	3/14/25 1106
M. Mulligan	3/14/25 1330		03 14 25 1330

Page 1 of 1

Cooler Receipt and Preservation Form

Client APEX Service Request K25 02727 PM UH

Received: 03 14 25 Opened: 03 14 25 By: AO Unloaded: 03 14 25 By: AO

1. Samples were received via? *USPS* *Fed Ex* *UPS* *DHL* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) *Cooler* *Box* *Envelope* *Other* _____ *NA*
3. Were custody seals on coolers? NA Y N If yes, how many and where? _____
   If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Temp Blank	Sample Temp	IR Gun	Cooler #/COC ID (NA)	Out of temp indicate with "X"	PM Notified If out of temp	Tracking Number (NA)	Filed
2.4 →		IR02					
3.8 →							
—	3.0						

4. Was a Temperature Blank present in cooler? NA Y N If yes, notate the temperature in the appropriate column below:
   If no, take the temperature of a representative sample bottle contained within the cooler; notate in the column "Sample Temp":
5. Were samples received within the method specified temperature ranges? NA Y N
   If no, were they received on ice and same day as collected? If not, notate the cooler # below and notify the PM. NA Y N

If applicable, tissue samples were received: *Frozen* *Partially Thawed* *Thawed*

6. Packing material: *Inserts* *Baggies* *Bubble Wrap* *Gel Packs* *Wet Ice* *Dry Ice* *Sleeves* _____
7. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
8. Were samples received in good condition (unbroken) NA Y N
9. Were all sample labels complete (ie, analysis, preservation, etc.)? NA Y N
10. Did all sample labels and tags agree with custody papers? NA Y N
11. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
12. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* NA Y N
13. Were VOA vials received without headspace? *Indicate in the table below.* NA Y N
14. Was C12/Res negative? NA Y N
15. Were samples received within method specified time limit? If not, notate the error below and notify the PM. NA Y N
16. Were 100mL sterile microbiology bottles filled exactly to the 100mL mark? NA Y N Underfilled Overfilled

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count Bottle Type	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, Resolutions: _____

Q:\ENVIRONMENTAL\1 SOP & Policy Statements\SMO\CRF Update 2025-02-28.docx Updated: BJD 2/28/25

Miscellaneous Forms

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

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Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated value.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.
H	The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

#	The control limit criteria is not applicable.
J	The result is an estimated value.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.
Q	See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimated value over the calibration range.
J	The result is an estimated value between the MDL and the MRL.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses

Agency	Web Site	Number
Alaska DEH	http://dec.alaska.gov/eh/lab/cs/csapproval.htm	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L16-58-R4
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	http://health.hawaii.gov/	-
ISO 17025	http://www.pjlabs.com/	L16-57
Louisiana DEQ	http://www.deq.louisiana.gov/page/la-lab-accreditation	03016
Maine DHS	http://www.maine.gov/dhhs/	WA01276
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/enforcement/oqa.html	WA005
New York - DOH	https://www.wadsworth.org/regulatory/elap	12060
North Carolina DEQ	https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/EnvironmentalLabCertification/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wyoming (EPA Region 8)	https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water-	-
Kelso Laboratory Website	[illegible]	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.
Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/anlayte is offered by that state.

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client:	Apex Laboratories	**Service Request:**	K2502727
Project:	A5C1257/		

Sample Name:	MW-3	**Date Collected:**	03/11/25
Lab Code:	K2502727-001	**Date Received:**	03/14/25
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
SM 5310 B		MSPECHT

Sample Name:	DUP	**Date Collected:**	03/11/25
Lab Code:	K2502727-002	**Date Received:**	03/14/25
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
SM 5310 B		MSPECHT

Sample Results

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Client:	Apex Laboratories	**Service Request:**	K2502727
Project:	A5C1257	**Date Collected:**	03/11/25 12:10
Sample Matrix:	Water	**Date Received:**	03/14/25 13:30
Sample Name:	MW-3	**Basis:**	NA
Lab Code:	K2502727-001		

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 B	**31.6**	mg/L	2.0	0.4	4	03/27/25 14:00	

Client:	Apex Laboratories	**Service Request:**	K2502727
Project:	A5C1257	**Date Collected:**	03/11/25 12:50
Sample Matrix:	Water	**Date Received:**	03/14/25 13:30
Sample Name:	DUP	**Basis:**	NA
Lab Code:	K2502727-002		

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 B	**20.8**	mg/L	2.0	0.4	4	03/27/25 14:00	

QC Summary Forms

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Client:	Apex Laboratories	**Service Request:**	K2502727
Project:	A5C1257	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	K2502727-MB		

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 B	ND U	mg/L	0.50	0.10	1	03/27/25 14:00	

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dba ALS Environmental

QA/QC Report

Client:	Apex Laboratories	**Service Request:**	K2502727
Project:	A5C1257	**Date Analyzed:**	03/27/25
Sample Matrix:	Water	**Date Extracted:**	NA

Lab Control Sample Summary
Carbon, Total Organic (TOC)

Analysis Method:	SM 5310 B	**Units:**	mg/L
Prep Method:	None	**Basis:**	NA
		Analysis Lot:	874185

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K2502727-LCS	23.7	25.0	95	85-115