MOTT MACDONALD

Tacoma-Pierce County Health Department
Attn: Keith Johnston, RS
Environmental Health Specialist Supervisor - Waste Management
3629 South D Street
Tacoma, WA 98418-6813

Your Reference
Facility Name: Former Nalley's Fine Foods/ Bird's Eye Site, Permit #RO0001775

Our Reference
518300040-001

Mott MacDonald
1601 5th Avenue
Suite 800
Seattle
WA 98101
United States of America

T +1 (206) 838 2886
mottmac.com

Former Birds Eye Foods Tacoma, First Quarter 2023 Groundwater Monitoring Event Summary Report

July 31, 2024

Dear Keith:

This letter report summarizes groundwater monitoring performed in the first quarter 2023 (2023 Q1) at the former Birds Eye Foods facility located at 3403 South 35th Street, Tacoma, Washington. The 2023 Q1 sampling event was performed, and this summary report was prepared, to satisfy semi-annual groundwater monitoring required by the Tacoma Pierce County Health Department (TPCHD).

About three decades ago, petroleum-related contamination in soil was identified in a portion of the facility, referred to as the “Boiler Room Site” (Site), which was the subject of a 2011 Remedial Investigation/Feasibility Study (2011 RI/FS) (Pacific Groundwater Group 2011). The preferred remedial alternative identified in the 2011 RI/FS includes an environmental restrictive covenant and long-term groundwater quality monitoring. In 2013 the Washington State Department of Ecology (Ecology) determined that no further remedial action is necessary to clean up contamination at the Boiler Room Site, dependent on the continued performance and effectiveness of the post-cleanup controls and groundwater quality monitoring. Ecology issued the 2013 no further action to Pinnacle Foods LLC, the property owner at that time. Subsequently the property was sold although Pinnacle Foods maintained responsibility for groundwater quality monitoring. Conagra Brands acquired Pinnacle Foods in 2018.

The Boiler Room Site is jointly regulated by TPCHD and Ecology. TPCHD regulates the Boiler Room Site as an open Underground Storage Tank (UST) site due to the presence of contaminated soil below the water table. Accordingly, as it is an open UST site, TPCHD requires ongoing semi-annual groundwater monitoring at the Boiler Room Site to assess the efficacy of remedial actions and to monitor for potential contamination migration (Marek, undated; received June 13, 2013). The semi-annual monitoring events are performed in the spring and fall and involve sampling from two (2) shallow and deep well pairs generally located upgradient and downgradient of contaminated soil. In the absence of evidence of contaminant

migration, TPCHD will not require remedial action other than the preferred *Soil Containment and Natural Source Zone Depletion* remedy identified in the 2011 RI/FS (Marek, undated; received June 13, 2013).

The groundwater monitoring program required by TPCHD is described in the Semi-Annual Groundwater Monitoring Plan (Pacific Groundwater Group 2013). The semi-annual groundwater monitoring program required by TPCHD is in addition to, and does not alter, the long-term groundwater monitoring program (Pacific Groundwater Group 2012) required by the *Soil Containment and Natural Source Zone Depletion* remedy identified in the 2011 RI/FS that was authorized by Ecology and incorporated into the Environmental Restrictive Covenant and No Further Action (Ecology 2013).

Analytical results for groundwater samples collected in 2023 Q1 indicate that the preferred remedial alternative identified in the 2011 RI/FS continues to be effective; the petroleum contamination in soil is not resulting in a dissolved plume with concentrations exceeding the Model Toxics Control Act (MTCA) Method A cleanup levels.

This work was performed, and this report prepared, in accordance with hydrogeologic practices generally accepted at this time and in this area for the exclusive use of Conagra Brands, for specific application to the project Site. No other warranty, express or implied, is made.

1 2023 Q1 Semi-Annual Groundwater Sampling Summary

The 2023 Q1 groundwater sampling event was performed in compliance with TPCHD requirements (Marek, undated; received June 13, 2013) and the Semi-Annual Groundwater Monitoring Plan (Pacific Groundwater Group 2013). Groundwater samples were collected from the Boiler Room Site semi-annual well network on March 23, 2023 by representatives of Mott MacDonald (formerly Pacific Groundwater Group). The semi-annual monitoring well network is presented in Figure 1 and construction details are summarized in Table 1.

The monitoring wells were purged and sampled using new, disposable tubing and peristaltic pumps. Low-flow purging and sampling techniques were used to minimize turbidity in the groundwater samples. During purging, field meters were used to monitor pH, specific conductance, temperature, and turbidity. Samples were collected when these field parameters had stabilized or after a minimum of three casing volumes had been purged. Purge water was drummed onsite prior to anticipated disposal offsite by Marine Vacuum Services, Inc. of Seattle, WA.

1.1 Chemicals of Concern and Site Cleanup Levels

Groundwater samples were received by Analytical Resources, Inc. (ARI), a Washington State certified laboratory, on March 23, 2023. Samples were stored and delivered in ice chests following standard chain-of-custody procedures.

Groundwater samples were analyzed according to Ecology and/or U.S. Environmental Protection Agency (EPA) methods for the following parameters:

- Northwest Total Petroleum Hydrocarbons – Gasoline Range Organics (NWTPH-G) and Diesel-Range and Heavy Oil-Range Organics (NTWPH-Dx) with silica gel cleanup.
- BTEX Compounds – Benzene, Toluene, Ethylbenzene, and Xylenes (EPA Method SW8260D).

- PAHs – Polycyclic Aromatic Hydrocarbons (EPA SW8270E with select ion monitoring modification to achieve required reporting limits).

As described in the 2011 RI/FS and Semi-Annual Groundwater Monitoring Plan (Pacific Groundwater Group 2011 and 2013, respectively), standard MTCA Method A Unrestricted Land Use cleanup levels are applicable to the Boiler Room Site to evaluate the relative chemical effects from soil contamination at the Site on groundwater quality. MTCA Method A cleanup levels are appropriate for the Site because the Site meets the criteria of WAC 173-340-704(1) because there are few hazardous substances at the Site and numerical Method A standards have been established. Groundwater cleanup levels presented in Table 2 are consistent with the 2011 RI/FS.

1.2 Quality Assurance/Quality Control

Quality assurance/quality control (QA/QC) data associated with the Boiler Room Site 2023 Q1 groundwater samples were reviewed by Mott MacDonald. All requested analyses were performed, and the QA/QC assessments indicate that the data are considered usable for the intended purpose of the project. The following notable results were identified during the QA/QC review:

- Field QA/QC included a blind field duplicate labeled MW-22S that was collected at well MW-12S and analyzed for the semi-annual sampling suite to evaluate analytical precision. No site chemicals of concern were detected in MW-12S. Multiple PAHs were detected in the original analysis of MW-22S. Because of the PAH discrepancies between the sample (MW-12S) and duplicate (MW-22S) results and the long-history of non-detect PAHs in site groundwater samples, Mott MacDonald sought confirmation from ARI about the detections of PAHs in MW-22S. Upon further examination of the analytical results, ARI reasoned that the PAH detections in the original analysis of MW-22S were lab artifacts caused by spiking the sample because the detected concentrations were so consistent between parameters. Therefore, ARI re-extracted and reanalyzed MW-22S. PAHs were not detected in the reanalysis MW-22S, disconfirming the initial detections and consistent with the MW-12S result and past precedence. ARI's case narrative in the attached lab report (Attachment A) documents that the initial analysis of MW-22S (laboratory ID 23C0577-06) was contaminated in the lab.
- Both the original and the reanalyzed results of sample MW-22S are presented in the lab report (Attachment A). Because the re-extraction was performed 13 days outside the holding time, the reanalyzed PAH results for MW-22S were flagged "H" by ARI.
- Surrogate spikes are known quantities of analytes that the lab "adds to" and "recovers from" samples for quality control purposes to measure the laboratory's ability to detect target substances in the sample. One of the PAH surrogate spikes, dibenzo(a,h)anthracene-d14, was recovered above the acceptable limits from the re-analysis of field duplicate MW-22S and from the method blank, laboratory control sample, and laboratory control duplicate sample associated with the re-analysis of MW-22S. PAHs were not detected in the re-analysis of MW-22S; therefore no corrective action was performed.
- Matrix Spikes (MS) and Matrix Spike Duplicates (MSD) are types of internal laboratory QA/QC samples. The lab prepares the MS/MSDs by adding known spikes of target analytes to samples collected in the field. Recoveries of the spikes from the MS assess the effects of interferences caused by the specific sample matrix. MSDs are replicates of the MS to check for precision and bias of a method for a specific sample matrix. During the 2023 Q1 sampling event,

additional volume for MS/MSD analysis was collected from MW-12D. The PAH recovery of phenanthrene was below the control limits in the MS. Since MS/MSD recovery limits are advisory only (Bottem 2021) and PAHs were not detected in the 2023 Q1 samples, no corrective actions were required, and the data are considered acceptable for purposes of the monitoring program without qualification.

1.3 Analytical Results

The 2023 Q1 groundwater monitoring analytical results are summarized in Table 2 and the analytical lab report is presented in Appendix A. Site contaminants of concern were not detected in the groundwater samples. As discussed in Section 1.2, lab contamination of the initial analysis of field duplicate MW-22S led to artificial detections of PAHs; no PAHs were detected in the reanalysis of MW-22S disconfirming the initial detections.

The 2023 Q1 groundwater analytical results indicate that the preferred remedial alternative identified in the 2011 RI/FS continues to be effective; the petroleum contamination in soil is not resulting in a dissolved groundwater plume with concentrations exceeding MTCA Method A cleanup levels.

2 References

Bottem, Kelly. 2021. Email from Kelly Bottem, Analytical Resources, LLC, to Inger Jackson, Pacific Groundwater Group. Re: 21I0412 Final report EDD and Invoice Birds Eye. November 2, 2021.

Marek, undated. Birds Eye Foods – UST Site Tacoma, WA. Letter from Mr. Steve Marek, Director Environmental Health Division Tacoma – Pierce County Health Department to Mr. Scott Fehseke, Pinnacle Foods, LLC. Digital version of letter received by Pinnacle Foods, LLC via email on June 13, 2013.

Pacific Groundwater Group, 2011. Birds Eye Foods Tacoma, WA 2011 Remedial Investigation/Feasibility Study. Consultant's report prepared for Pinnacle Foods Group, LLC. December 16, 2011.

Pacific Groundwater Group, 2012. Birds Eye Foods, Tacoma Boiler Room Site Long-Term Groundwater Monitoring Plan VCP Site Number SW1187. Consultant's re-port prepared for Pinnacle Foods Group, LLC. October 23, 2012.

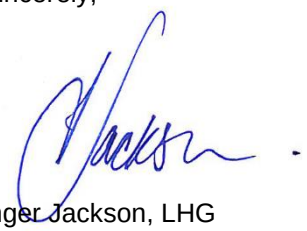
Pacific Groundwater Group, 2013. Birds Eye Foods UST Site Proposed Semi-Annual Groundwater Monitoring Plan. Consultant's report prepared for Pinnacle Foods Group, LLC. March 17, 2013.

Washington State Department of Ecology, 2007. Model Toxics Control Act Statute and Regulation. WAC 173-340. Publication No. 94-06. Revised November 2007.

3 Closing

We hope this data contributes to your understanding of the Site and groundwater monitoring data. Please contact Inger Jackson at Mott MacDonald with questions.

Sincerely,



Inger Jackson, LHG
Senior Project Scientist
206-329-0138
inger.jackson@mottmac.com

cc	Allison Torrence	Conagra Brands
	Andrew Smith	Washington State Department of Ecology

Attachments

Table 1. Semi-Annual Monitoring Well Network Construction Details, Birds Eye Boiler Room Site

Table 2. Summary of Groundwater Quality Data, Birds Eye Foods, TPCHD Monitoring Event, 2023 Q1

Figure 1. Semi-Annual Monitoring Well Network

Appendix A. ARI Lab Report 23C0577

Table 1. Semi-Annual Monitoring Well Network Construction Details, Birds Eye Boiler Room Site

	Units, Datum*	MW-9S	MW-9D	MW-12S	MW-12D
Unique Well ID (UWID)		Not available	Not available	BHL 104	BHL 103
Location Information					
Township/Range-Section		21N/R3E-07	21N/R3E-07	21N/R3E-07	21N/R3E-07
Northing	feet, NAD 83/91 WA South	697261.9	697257.9	697590.9	697585.0
Easting	feet, NAD 83/91 WA South	1148195.0	1148194.9	1148259.2	1148259.1
Ground Surface Elevation	feet, NAD 88	247.67	247.64	248.24	248.19
Measuring Point Elevation	feet, NAD 88	246.99	247.14	247.86	247.90
Construction Information					
Date Completed		10/22/1991	8/24/1992	4/23/2012	4/23/2012
Diameter	inches	2	2	2	2
Depth Drilled	feet bgs	37	82	35	75
Top of Screen	feet bgs	22	77	20	63
Bottom of Screen	feet bgs	37	82	35	73
Depth Completed	feet bgs	37	82	35	73
Monument Type		← Sherwood High Traffic Flush Monument →			

* Vertical and Horizontal Datums use the Washington State Reference Network

Table 2. Summary of Groundwater Quality Data, Birds Eye Foods, TPCHD Monitoring Event, 2023 Q1

CONSTITUENT	UNITS	Site Cleanup Levels*	MW-9S	MW-9D	MW-12S	MW-12D
Field Parameters						
Depth to Water	feet		16.92	17.26	17.99	18.11
pH, Field	std. units		6.97	7.16	7.28	7.46
Specific Conductance, Field	umhos/cm		291.9	367.8	590	603
Temperature (C)	C		13.4	12.7	14.2	14.4
Turbidity, Field	NTU		1.66	3.29	21.1	4.42
NWTPH Analytes						
Diesel Range Organics	mg/L	0.5	0.1 U	0.1 U	0.1 U	0.1 U
Gasoline Range Organics	mg/L	0.8	0.1 U	0.1 U	0.1 U	0.1 U
Oil Range Organics	mg/L	0.5	0.2 U	0.2 U	0.2 U	0.2 U
BTEX (EPA 8260)						
Benzene	ug/L	5	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene	ug/L	700	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	ug/L	1000	0.2 U	0.2 U	0.2 U	0.2 U
o-Xylene	ug/L		0.2 U	0.2 U	0.2 U	0.2 U
Xylene Isomers, m+p	ug/L		0.4 U	0.4 U	0.4 U	0.4 U
Carcinogenic PAHs						
Benzo(a)anthracene	ug/L		0.1 U	0.1 U	0.1 U	0.1 U
Benzo(a)pyrene	ug/L	0.1	0.1 U	0.1 U	0.1 U	0.1 U
Benzo(b)fluoranthene	ug/L		0.1 U	0.1 U	0.1 U	0.1 U
Benzo(k)fluoranthene	ug/L		0.1 U	0.1 U	0.1 U	0.1 U
Chrysene	ug/L		0.1 U	0.1 U	0.1 U	0.1 U
Dibenzo(a,h)anthracene	ug/L		0.1 U	0.1 U	0.1 U	0.1 U
Indeno(1,2,3-cd)pyrene	ug/L		0.1 U	0.1 U	0.1 U	0.1 U
Non-Carcinogenic PAHs						
Acenaphthene	ug/L		0.1 U	0.1 U	0.1 U	0.1 U
Acenaphthylene	ug/L		0.1 U	0.1 U	0.1 U	0.1 U
Anthracene	ug/L		0.1 U	0.1 U	0.1 U	0.1 U
Benzo(g,h,i)perylene	ug/L		0.1 U	0.1 U	0.1 U	0.1 U
Fluoranthene	ug/L		0.1 U	0.1 U	0.1 U	0.1 U
Fluorene	ug/L		0.1 U	0.1 U	0.1 U	0.1 U
Naphthalene	ug/L	160	0.1 U	0.1 U	0.1 U	0.1 U
Phenanthrene	ug/L		0.1 U	0.1 U	0.1 U	0.1 U
Pyrene	ug/L		0.1 U	0.1 U	0.1 U	0.1 U

**Cleanup Levels based on MTCA Method A, consistent with Birds Eye Foods Tacoma, WA 2011 Remedial Investigation/Feasibility Study*

MTCA Cleanup Levels: Gasoline Range Organics 0.8 mg/L if benzene present, 1.0 mg/L if benzene not present; Xylenes 1000 ug/L (individual cleanup levels for m+p xylenes and o-xylenes not established); Benzo(a)pyrene 0.1 ug/L, this represents the total concentration that all carcinogenic PAHs must meet using the toxicity equivalency method in WAC 173-340-708(8).

NWTPH-Dx analysis with silica gel cleanup, consistent with historical site analyses

Lower case qualifiers assigned by PGG QA/QC data reviewer.
Upper case qualifiers assigned by lab.
Bold text indicates constituent detected at or above method reporting limit.

U - Compound not detected
J - Concentration estimated
B - Compound detected in blank

K:\RUSS\BirdsEye\GIS\MonitoringNetwork_LongTerm_2021.mxd - 4/20/2021

Semi-Annual Monitoring Well Network

2011 Delineated Petroleum Contaminated Soil Areas

0 Feet 50

2020 Orthophoto from Pierce County

Figure 1

Semi-Annual Monitoring Well Network

Birds Eye Semi-Annual Monitoring Plan

MOTT MACDONALD

MOTT MACDONALD

Appendix A
Analytical Lab Report

Analytical Resources, LLC
Analytical Chemists and Consultants
Tukwila, WA

15 April 2023

Inger Jackson
Pacific Groundwater Group
2377 Eastlake Ave. E. Suite 200
Seattle, WA 98102

RE: Birds Eye (518300040-002)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)	Associated SDG ID(s)
23C0577	N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

Kelly Bottem, Client Services Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

ACCREDITED IN ACCORDANCE WITH nelac
Cert# 100006-012

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 230577	Turn-around Requested: Standard	Page: 1 of 1	
ARI Client Company: Matt MacDonald / PGG	Phone: 206 329 0138	Date: 3/23/23	Ice Present? Yes
Client Contact: Inger Jackson		No. of Coolers: 2	Cooler Temps: 3.6 4.1
Client Project Name: Birds Eye			
Client Project #: 5183000040-002	Samplers: I. Jackson / A. Parkhurst		

Analytical Resources, LLC
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested: NWTPH-Gx	BTEX	SIM PAH	NWTPH-Dx with Silica Gel					Notes/Comments
MW-9S	3/23/23	1440	GW	9	2	3	2	2					
MW-9D		1510		9	2	3	2	2					
MW-12S		1040		9	2	3	2	2					
MW-12D + MS/MSD		1100		27	6	9	6	6					
MW-22S		1045		9	2	3	2	2					

Comments/Special Instructions	Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)	Received by: (Signature)
EDD in "PGG" format.	Printed Name: Inger Jackson	Printed Name: Sam Shafte	Printed Name:	Printed Name:
	Company: Matt MacDonald	Company: ARI, LLC	Company:	Company:
	Date & Time: 3/23/23 1655	Date & Time: 3/23/23 1655	Date & Time:	Date & Time:

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Analytical Resources, LLC
Analytical Chemists and Consultants

Analytical Report

Pacific Groundwater Group	Project: Birds Eye	
2377 Eastlake Ave. E. Suite 200	Project Number: 518300040-002	**Reported:**
Seattle WA, 98102	Project Manager: Inger Jackson	15-Apr-2023 17:59

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-9S	23C0577-01	Water	23-Mar-2023 14:40	23-Mar-2023 16:55
MW-9D	23C0577-02	Water	23-Mar-2023 15:10	23-Mar-2023 16:55
MW-12S	23C0577-03	Water	23-Mar-2023 10:40	23-Mar-2023 16:55
MW-12D+MS/MSD	23C0577-04	Water	23-Mar-2023 11:00	23-Mar-2023 16:55
Trip Blank	23C0577-05	Water	23-Mar-2023 10:40	23-Mar-2023 16:55
MW-22S	23C0577-06	Water	23-Mar-2023 10:45	23-Mar-2023 16:55

Pacific Groundwater Group	Project: Birds Eye	
2377 Eastlake Ave. E. Suite 200	Project Number: 518300040-002	**Reported:**
Seattle WA, 98102	Project Manager: Inger Jackson	15-Apr-2023 17:59

Work Order Case Narrative

Gasoline by NWTPH-g (GC/MS)

The sample(s) were analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

Internal standard areas were within limits.

The surrogate percent recoveries were within control limits.

The method blank(s) were clean at the reporting limits.

The blank spike and blank spike duplicate (BS/LCS and BSD/LCSD) spike recoveries and relative percent difference (RPD) were within control limits.

The matrix spike/matrix spike duplicate (MS/MSD) spike recoveries and relative percent difference (RPD) were within advisory control limits.

Volatiles - EPA Method SW8260D

The sample(s) were analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

Internal standard areas were within limits.

The surrogate percent recoveries were within control limits.

The method blank(s) were clean at the reporting limits.

The blank spike and blank spike duplicate (BS/LCS and BSD/LCSD) spike recoveries and relative percent difference (RPD) were within control limits.

The matrix spike/matrix spike duplicate (MS/MSD) spike recoveries and relative percent difference (RPD) were within advisory control limits.

Polynuclear Aromatic Hydrocarbons (PAH) - EPA Method SW8270E-SIM

The sample(s) were extracted and analyzed within the recommended holding times with the exception of 23C0577-06RE1. The sample was originally extracted within the holding time and was contaminated during the prep. The sample was re-extracted outside of the holding time.

Pacific Groundwater Group	Project: Birds Eye	
2377 Eastlake Ave. E. Suite 200	Project Number: 518300040-002	**Reported:**
Seattle WA, 98102	Project Manager: Inger Jackson	15-Apr-2023 17:59

Initial and continuing calibrations were within method requirements.

Internal standard areas were within limits.

The surrogate percent recoveries were within control limits with the exception of surrogates flagged on the associated forms.

The method blank(s) were clean at the reporting limits.

The blank spike (BS/LCS) percent recoveries were within control limits.

The matrix spike/matrix spike duplicate (MS/MSD) percent recoveries and relative percent difference (RPD) were within advisory control limits with the exception of analytes flagged on the associated forms.

Diesel/Heavy Oil Range Organics - WA-Ecology Method NW-TPHDx

The sample(s) were extracted and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The surrogate percent recoveries were within control limits.

The method blank(s) were clean at the reporting limits.

The blank spike (BS/LCS) percent recoveries were within control limits.

The matrix spike/matrix spike duplicate (MS/MSD) spike recoveries and relative percent difference (RPD) were within advisory control limits.

Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Moff MacDonald Project Name: Birds Eye

COC No(s): _____ NA Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 230577 Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler?	YES	NO
Were custody papers included with the cooler?	YES	NO
Were custody papers properly filled out (ink, signed, etc.)	YES	NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1655 3.6 4.1 ___ ___ ___ ___

If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: Taa9708

Cooler Accepted by: JS Date: 03/23/23 Time: 1655

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?		YES	NO
What kind of packing material was used?	Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other:		
Was sufficient ice used (if appropriate)?	NA	YES	NO
How were bottles sealed in plastic bags?	Individually	Grouped	Not
Did all bottles arrive in good condition (unbroken)?		YES	NO
Were all bottle labels complete and legible?		YES	NO
Did the number of containers listed on COC match with the number of containers received?		YES	NO
Did all bottle labels and tags agree with custody papers?		YES	NO
Were all bottles used correct for the requested analyses?		YES	NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)	NA	YES	NO
Were all VOC vials free of air bubbles?	NA	YES	NO
Was sufficient amount of sample sent in each bottle?		YES	NO
Date VOC Trip Blank was made at ARI	NA	03/17/23	

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: [illegible] Date: 03/24/23 Time: 8:12 Labels checked by: TCS

***** Notify Project Manager of discrepancies or concerns *****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: Date:

Pacific Groundwater Group	Project: Birds Eye	
2377 Eastlake Ave. E. Suite 200	Project Number: 518300040-002	**Reported:**
Seattle WA, 98102	Project Manager: Inger Jackson	15-Apr-2023 17:59

MW-9S

23C0577-01 (Water)

Volatile Organic Compounds

Method: EPA 8260D — Sampled: 03/23/2023 14:40
Instrument: NT3 Analyst: TWC — Analyzed: 03/24/2023 20:33

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 5030C (Purge and Trap) — Extract ID: 23C0577-01 A
Preparation Batch: BLC0676 — Sample Size: 10 mL
Prepared: 03/24/2023 — Final Volume: 10 mL

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Benzene	71-43-2	1	0.20	ND	ug/L	U
Toluene	108-88-3	1	0.20	ND	ug/L	U
Ethylbenzene	100-41-4	1	0.20	ND	ug/L	U
m,p-Xylene	179601-23-1	1	0.40	ND	ug/L	U
o-Xylene	95-47-6	1	0.20	ND	ug/L	U
Surrogate: 1,2-Dichloroethane-d4			*80-129 %*	*101*	*%*	
Surrogate: Toluene-d8			*80-120 %*	*97.9*	*%*	
Surrogate: 4-Bromofluorobenzene			*80-120 %*	*94.9*	*%*	
Surrogate: 1,2-Dichlorobenzene-d4			*80-120 %*	*103*	*%*	

Analytical Resources, LLC
Analytical Chemists and Consultants

Analytical Report

Pacific Groundwater Group	Project: Birds Eye	
2377 Eastlake Ave. E. Suite 200	Project Number: 518300040-002	**Reported:**
Seattle WA, 98102	Project Manager: Inger Jackson	15-Apr-2023 17:59

MW-9S

23C0577-01 (Water)

Volatile Organic Compounds

Method: NWTPHg — Sampled: 03/23/2023 14:40
Instrument: NT3 Analyst: TWC — Analyzed: 03/24/2023 20:33

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 5030C (Purge and Trap) — Extract ID: 23C0577-01 A
Preparation Batch: BLC0676 — Sample Size: 10 mL
Prepared: 03/24/2023 — Final Volume: 10 mL

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Gasoline Range Organics (Tol-Nap)	GRO	1	100	ND	ug/L	U
Surrogate: Toluene-d8			*80-120 %*	*97.9*	*%*	
Surrogate: 4-Bromofluorobenzene			*80-120 %*	*94.9*	*%*	

Pacific Groundwater Group	Project: Birds Eye	
2377 Eastlake Ave. E. Suite 200	Project Number: 518300040-002	**Reported:**
Seattle WA, 98102	Project Manager: Inger Jackson	15-Apr-2023 17:59

MW-9S

23C0577-01 (Water)

Semivolatile Organic Compounds - SIM

Method: EPA 8270E-SIM — Sampled: 03/23/2023 14:40
Instrument: NT8 Analyst: JZ — Analyzed: 03/31/2023 16:09

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3520C (Liq Liq) — Extract ID: 23C0577-01 H 01
Preparation Batch: BLC0660 — Sample Size: 500 mL
Prepared: 03/29/2023 — Final Volume: 0.5 mL

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Naphthalene	91-20-3	1	0.10	ND	ug/L	U
2-Methylnaphthalene	91-57-6	1	0.10	ND	ug/L	U
1-Methylnaphthalene	90-12-0	1	0.10	ND	ug/L	U
Acenaphthylene	208-96-8	1	0.10	ND	ug/L	U
Acenaphthene	83-32-9	1	0.10	ND	ug/L	U
Dibenzofuran	132-64-9	1	0.10	ND	ug/L	U
Fluorene	86-73-7	1	0.10	ND	ug/L	U
Phenanthrene	85-01-8	1	0.10	ND	ug/L	U
Anthracene	120-12-7	1	0.10	ND	ug/L	U
Fluoranthene	206-44-0	1	0.10	ND	ug/L	U
Pyrene	129-00-0	1	0.10	ND	ug/L	U
Benzo(a)anthracene	56-55-3	1	0.10	ND	ug/L	U
Chrysene	218-01-9	1	0.10	ND	ug/L	U
Benzo(b)fluoranthene	205-99-2	1	0.10	ND	ug/L	U
Benzo(k)fluoranthene	207-08-9	1	0.10	ND	ug/L	U
Benzo(j)fluoranthene	205-82-3	1	0.10	ND	ug/L	U
Benzofluoranthenes, Total		1	0.20	ND	ug/L	U
Benzo(a)pyrene	50-32-8	1	0.10	ND	ug/L	U
Indeno(1,2,3-cd)pyrene	193-39-5	1	0.10	ND	ug/L	U
Dibenzo(a,h)anthracene	53-70-3	1	0.10	ND	ug/L	U
Benzo(g,h,i)perylene	191-24-2	1	0.10	ND	ug/L	U
Surrogate: 2-Methylnaphthalene-d10			*31-120 %*	*60.8*	*%*	
Surrogate: Dibenzo[a,h]anthracene-d14			*10-125 %*	*83.2*	*%*	

Analytical Resources, LLC
Analytical Chemists and Consultants

Analytical Report

Pacific Groundwater Group	Project: Birds Eye	
2377 Eastlake Ave. E. Suite 200	Project Number: 518300040-002	**Reported:**
Seattle WA, 98102	Project Manager: Inger Jackson	15-Apr-2023 17:59

MW-9S

23C0577-01 (Water)

Petroleum Hydrocarbons

Method: NWTPH-Dx — Sampled: 03/23/2023 14:40
Instrument: FID4 Analyst: AA — Analyzed: 04/04/2023 00:33

Analysis by: Analytical Resources, LLC

Sample Preparation:	Preparation Method: EPA 3510C SepF		Extract ID: 23C0577-01 G 01
	Preparation Batch: BLC0661	Sample Size: 500 mL	
	Prepared: 03/28/2023	Final Volume: 1 mL	
Sample Cleanup:	Cleanup Method: Silica Gel		Extract ID: 23C0577-01 G 01
	Cleanup Batch: CLD0002	Initial Volume: 1 uL	
	Cleaned: 03-Apr-2023	Final Volume: 1 uL	
Sample Cleanup:	Cleanup Method: Sulfuric Acid		Extract ID:23C0577-01 G 01
	Cleanup Batch: CLD0001	Initial Volume: 1 uL	
	Cleaned: 03-Apr-2023	Final Volume: 1 uL	

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24)	DRO	1	0.100	ND	mg/L	U
Motor Oil Range Organics (C24-C38)	RRO	1	0.200	ND	mg/L	U
Surrogate: o-Terphenyl			*50-150 %*	*108*	*%*	

Analytical Resources, LLC
Analytical Chemists and Consultants

Analytical Report

Pacific Groundwater Group	Project: Birds Eye	
2377 Eastlake Ave. E. Suite 200	Project Number: 518300040-002	**Reported:**
Seattle WA, 98102	Project Manager: Inger Jackson	15-Apr-2023 17:59

MW-9D

23C0577-02 (Water)

Volatile Organic Compounds

Method: EPA 8260D — Sampled: 03/23/2023 15:10
Instrument: NT3 Analyst: TWC — Analyzed: 03/24/2023 20:55

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 5030C (Purge and Trap) — Extract ID: 23C0577-02 A
Preparation Batch: BLC0676 — Sample Size: 10 mL
Prepared: 03/24/2023 — Final Volume: 10 mL

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Benzene	71-43-2	1	0.20	ND	ug/L	U
Toluene	108-88-3	1	0.20	ND	ug/L	U
Ethylbenzene	100-41-4	1	0.20	ND	ug/L	U
m,p-Xylene	179601-23-1	1	0.40	ND	ug/L	U
o-Xylene	95-47-6	1	0.20	ND	ug/L	U
Surrogate: 1,2-Dichloroethane-d4			*80-129 %*	*98.7*	*%*	
Surrogate: Toluene-d8			*80-120 %*	*98.1*	*%*	
Surrogate: 4-Bromofluorobenzene			*80-120 %*	*99.4*	*%*	
Surrogate: 1,2-Dichlorobenzene-d4			*80-120 %*	*102*	*%*	

Pacific Groundwater Group	Project: Birds Eye	
2377 Eastlake Ave. E. Suite 200	Project Number: 518300040-002	**Reported:**
Seattle WA, 98102	Project Manager: Inger Jackson	15-Apr-2023 17:59

MW-9D

23C0577-02 (Water)

Volatile Organic Compounds

Method: NWTPHg — Sampled: 03/23/2023 15:10
Instrument: NT3 Analyst: TWC — Analyzed: 03/24/2023 20:55

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 5030C (Purge and Trap) — Extract ID: 23C0577-02 A
Preparation Batch: BLC0676 — Sample Size: 10 mL
Prepared: 03/24/2023 — Final Volume: 10 mL

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Gasoline Range Organics (Tol-Nap)	GRO	1	100	ND	ug/L	U
Surrogate: Toluene-d8			*80-120 %*	*98.1*	*%*	
Surrogate: 4-Bromofluorobenzene			*80-120 %*	*99.4*	*%*	

Pacific Groundwater Group	Project: Birds Eye	
2377 Eastlake Ave. E. Suite 200	Project Number: 518300040-002	**Reported:**
Seattle WA, 98102	Project Manager: Inger Jackson	15-Apr-2023 17:59

MW-9D

23C0577-02 (Water)

Semivolatile Organic Compounds - SIM

Method: EPA 8270E-SIM — Sampled: 03/23/2023 15:10
Instrument: NT8 Analyst: JZ — Analyzed: 03/31/2023 16:36

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3520C (Liq Liq) — Extract ID: 23C0577-02 H 01
Preparation Batch: BLC0660 — Sample Size: 500 mL
Prepared: 03/29/2023 — Final Volume: 0.5 mL

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Naphthalene	91-20-3	1	0.10	ND	ug/L	U
2-Methylnaphthalene	91-57-6	1	0.10	ND	ug/L	U
1-Methylnaphthalene	90-12-0	1	0.10	ND	ug/L	U
Acenaphthylene	208-96-8	1	0.10	ND	ug/L	U
Acenaphthene	83-32-9	1	0.10	ND	ug/L	U
Dibenzofuran	132-64-9	1	0.10	ND	ug/L	U
Fluorene	86-73-7	1	0.10	ND	ug/L	U
Phenanthrene	85-01-8	1	0.10	ND	ug/L	U
Anthracene	120-12-7	1	0.10	ND	ug/L	U
Fluoranthene	206-44-0	1	0.10	ND	ug/L	U
Pyrene	129-00-0	1	0.10	ND	ug/L	U
Benzo(a)anthracene	56-55-3	1	0.10	ND	ug/L	U
Chrysene	218-01-9	1	0.10	ND	ug/L	U
Benzo(b)fluoranthene	205-99-2	1	0.10	ND	ug/L	U
Benzo(k)fluoranthene	207-08-9	1	0.10	ND	ug/L	U
Benzo(j)fluoranthene	205-82-3	1	0.10	ND	ug/L	U
Benzofluoranthenes, Total		1	0.20	ND	ug/L	U
Benzo(a)pyrene	50-32-8	1	0.10	ND	ug/L	U
Indeno(1,2,3-cd)pyrene	193-39-5	1	0.10	ND	ug/L	U
Dibenzo(a,h)anthracene	53-70-3	1	0.10	ND	ug/L	U
Benzo(g,h,i)perylene	191-24-2	1	0.10	ND	ug/L	U
Surrogate: 2-Methylnaphthalene-d10			*31-120 %*	*64.3*	*%*	
Surrogate: Dibenzo[a,h]anthracene-d14			*10-125 %*	*82.5*	*%*	

Analytical Resources, LLC
Analytical Chemists and Consultants

Analytical Report

Pacific Groundwater Group	Project: Birds Eye	
2377 Eastlake Ave. E. Suite 200	Project Number: 518300040-002	**Reported:**
Seattle WA, 98102	Project Manager: Inger Jackson	15-Apr-2023 17:59

MW-9D

23C0577-02 (Water)

Petroleum Hydrocarbons

Method: NWTPH-Dx — Sampled: 03/23/2023 15:10
Instrument: FID4 Analyst: AA — Analyzed: 04/04/2023 00:53

Analysis by: Analytical Resources, LLC

Sample Preparation:	Preparation Method: EPA 3510C SepF		Extract ID: 23C0577-02 G 01
	Preparation Batch: BLC0661	Sample Size: 500 mL	
	Prepared: 03/28/2023	Final Volume: 1 mL	
Sample Cleanup:	Cleanup Method: Silica Gel		Extract ID: 23C0577-02 G 01
	Cleanup Batch: CLD0002	Initial Volume: 1 uL	
	Cleaned: 03-Apr-2023	Final Volume: 1 uL	
Sample Cleanup:	Cleanup Method: Sulfuric Acid		Extract ID:23C0577-02 G 01
	Cleanup Batch: CLD0001	Initial Volume: 1 uL	
	Cleaned: 03-Apr-2023	Final Volume: 1 uL	

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24)	DRO	1	0.100	ND	mg/L	U
Motor Oil Range Organics (C24-C38)	RRO	1	0.200	ND	mg/L	U
Surrogate: o-Terphenyl			*50-150 %*	*103*	*%*	

Analytical Resources, LLC
Analytical Chemists and Consultants

Analytical Report

Pacific Groundwater Group	Project: Birds Eye	
2377 Eastlake Ave. E. Suite 200	Project Number: 518300040-002	**Reported:**
Seattle WA, 98102	Project Manager: Inger Jackson	15-Apr-2023 17:59

MW-12S

23C0577-03 (Water)

Volatile Organic Compounds

Method: EPA 8260D — Sampled: 03/23/2023 10:40
Instrument: NT3 Analyst: TWC — Analyzed: 03/24/2023 21:17

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 5030C (Purge and Trap) — Extract ID: 23C0577-03 A
Preparation Batch: BLC0676 — Sample Size: 10 mL
Prepared: 03/24/2023 — Final Volume: 10 mL

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Benzene	71-43-2	1	0.20	ND	ug/L	U
Toluene	108-88-3	1	0.20	ND	ug/L	U
Ethylbenzene	100-41-4	1	0.20	ND	ug/L	U
m,p-Xylene	179601-23-1	1	0.40	ND	ug/L	U
o-Xylene	95-47-6	1	0.20	ND	ug/L	U
Surrogate: 1,2-Dichloroethane-d4			*80-129 %*	*108*	*%*	
Surrogate: Toluene-d8			*80-120 %*	*98.0*	*%*	
Surrogate: 4-Bromofluorobenzene			*80-120 %*	*98.2*	*%*	
Surrogate: 1,2-Dichlorobenzene-d4			*80-120 %*	*103*	*%*	

Analytical Resources, LLC
Analytical Chemists and Consultants

Analytical Report

Pacific Groundwater Group	Project: Birds Eye	
2377 Eastlake Ave. E. Suite 200	Project Number: 518300040-002	**Reported:**
Seattle WA, 98102	Project Manager: Inger Jackson	15-Apr-2023 17:59

MW-12S

23C0577-03 (Water)

Volatile Organic Compounds

Method: NWTPHg — Sampled: 03/23/2023 10:40
Instrument: NT3 Analyst: TWC — Analyzed: 03/24/2023 21:17

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 5030C (Purge and Trap) — Extract ID: 23C0577-03 A
Preparation Batch: BLC0676 — Sample Size: 10 mL
Prepared: 03/24/2023 — Final Volume: 10 mL

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Gasoline Range Organics (Tol-Nap)	GRO	1	100	ND	ug/L	U
Surrogate: Toluene-d8			*80-120 %*	*98.0*	*%*	
Surrogate: 4-Bromofluorobenzene			*80-120 %*	*98.2*	*%*	

Pacific Groundwater Group	Project: Birds Eye	
2377 Eastlake Ave. E. Suite 200	Project Number: 518300040-002	**Reported:**
Seattle WA, 98102	Project Manager: Inger Jackson	15-Apr-2023 17:59

MW-12S

23C0577-03 (Water)

Semivolatile Organic Compounds - SIM

Method: EPA 8270E-SIM — Sampled: 03/23/2023 10:40
Instrument: NT8 Analyst: JZ — Analyzed: 03/31/2023 17:03

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3520C (Liq Liq) — Extract ID: 23C0577-03 H 01
Preparation Batch: BLC0660 — Sample Size: 500 mL
Prepared: 03/29/2023 — Final Volume: 0.5 mL

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Naphthalene	91-20-3	1	0.10	ND	ug/L	U
2-Methylnaphthalene	91-57-6	1	0.10	ND	ug/L	U
1-Methylnaphthalene	90-12-0	1	0.10	ND	ug/L	U
Acenaphthylene	208-96-8	1	0.10	ND	ug/L	U
Acenaphthene	83-32-9	1	0.10	ND	ug/L	U
Dibenzofuran	132-64-9	1	0.10	ND	ug/L	U
Fluorene	86-73-7	1	0.10	ND	ug/L	U
Phenanthrene	85-01-8	1	0.10	ND	ug/L	U
Anthracene	120-12-7	1	0.10	ND	ug/L	U
Fluoranthene	206-44-0	1	0.10	ND	ug/L	U
Pyrene	129-00-0	1	0.10	ND	ug/L	U
Benzo(a)anthracene	56-55-3	1	0.10	ND	ug/L	U
Chrysene	218-01-9	1	0.10	ND	ug/L	U
Benzo(b)fluoranthene	205-99-2	1	0.10	ND	ug/L	U
Benzo(k)fluoranthene	207-08-9	1	0.10	ND	ug/L	U
Benzo(j)fluoranthene	205-82-3	1	0.10	ND	ug/L	U
Benzofluoranthenes, Total		1	0.20	ND	ug/L	U
Benzo(a)pyrene	50-32-8	1	0.10	ND	ug/L	U
Indeno(1,2,3-cd)pyrene	193-39-5	1	0.10	ND	ug/L	U
Dibenzo(a,h)anthracene	53-70-3	1	0.10	ND	ug/L	U
Benzo(g,h,i)perylene	191-24-2	1	0.10	ND	ug/L	U
Surrogate: 2-Methylnaphthalene-d10			*31-120 %*	*68.8*	*%*	
Surrogate: Dibenzo[a,h]anthracene-d14			*10-125 %*	*94.0*	*%*	

Analytical Resources, LLC
Analytical Chemists and Consultants

Analytical Report

Pacific Groundwater Group	Project: Birds Eye	
2377 Eastlake Ave. E. Suite 200	Project Number: 518300040-002	**Reported:**
Seattle WA, 98102	Project Manager: Inger Jackson	15-Apr-2023 17:59

MW-12S

23C0577-03 (Water)

Petroleum Hydrocarbons

Method: NWTPH-Dx — Sampled: 03/23/2023 10:40
Instrument: FID4 Analyst: AA — Analyzed: 04/04/2023 01:12

Analysis by: Analytical Resources, LLC

Sample Preparation:	Preparation Method: EPA 3510C SepF		Extract ID: 23C0577-03 G 01
	Preparation Batch: BLC0661	Sample Size: 500 mL	
	Prepared: 03/28/2023	Final Volume: 1 mL	
Sample Cleanup:	Cleanup Method: Silica Gel		Extract ID: 23C0577-03 G 01
	Cleanup Batch: CLD0002	Initial Volume: 1 uL	
	Cleaned: 03-Apr-2023	Final Volume: 1 uL	
Sample Cleanup:	Cleanup Method: Sulfuric Acid		Extract ID:23C0577-03 G 01
	Cleanup Batch: CLD0001	Initial Volume: 1 uL	
	Cleaned: 03-Apr-2023	Final Volume: 1 uL	

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24)	DRO	1	0.100	ND	mg/L	U
Motor Oil Range Organics (C24-C38)	RRO	1	0.200	ND	mg/L	U
Surrogate: o-Terphenyl			*50-150 %*	*106*	*%*	

Pacific Groundwater Group	Project: Birds Eye	
2377 Eastlake Ave. E. Suite 200	Project Number: 518300040-002	**Reported:**
Seattle WA, 98102	Project Manager: Inger Jackson	15-Apr-2023 17:59

MW-12D+MS/MSD

23C0577-04 (Water)

Volatile Organic Compounds

Method: EPA 8260D — Sampled: 03/23/2023 11:00

Instrument: NT3 Analyst: TWC — Analyzed: 03/24/2023 21:39

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 5030C (Purge and Trap) — Extract ID: 23C0577-04 A

Preparation Batch: BLC0676 — Sample Size: 10 mL

Prepared: 03/24/2023 — Final Volume: 10 mL

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Benzene	71-43-2	1	0.20	ND	ug/L	U
Toluene	108-88-3	1	0.20	ND	ug/L	U
Ethylbenzene	100-41-4	1	0.20	ND	ug/L	U
m,p-Xylene	179601-23-1	1	0.40	ND	ug/L	U
o-Xylene	95-47-6	1	0.20	ND	ug/L	U
Surrogate: 1,2-Dichloroethane-d4			*80-129 %*	*106*	*%*	
Surrogate: Toluene-d8			*80-120 %*	*98.1*	*%*	
Surrogate: 4-Bromofluorobenzene			*80-120 %*	*95.4*	*%*	
Surrogate: 1,2-Dichlorobenzene-d4			*80-120 %*	*102*	*%*	

Pacific Groundwater Group	Project: Birds Eye	
2377 Eastlake Ave. E. Suite 200	Project Number: 518300040-002	**Reported:**
Seattle WA, 98102	Project Manager: Inger Jackson	15-Apr-2023 17:59

MW-12D+MS/MSD

23C0577-04 (Water)

Volatile Organic Compounds

Method: NWTPHg — Sampled: 03/23/2023 11:00

Instrument: NT3 Analyst: TWC — Analyzed: 03/24/2023 21:39

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 5030C (Purge and Trap) — Extract ID: 23C0577-04 A

Preparation Batch: BLC0676 — Sample Size: 10 mL

Prepared: 03/24/2023 — Final Volume: 10 mL

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Gasoline Range Organics (Tol-Nap)	GRO	1	100	ND	ug/L	U
Surrogate: Toluene-d8			*80-120 %*	*98.1*	*%*	
Surrogate: 4-Bromofluorobenzene			*80-120 %*	*95.4*	*%*	

Pacific Groundwater Group	Project: Birds Eye	
2377 Eastlake Ave. E. Suite 200	Project Number: 518300040-002	**Reported:**
Seattle WA, 98102	Project Manager: Inger Jackson	15-Apr-2023 17:59

MW-12D+MS/MSD

23C0577-04 (Water)

Semivolatile Organic Compounds - SIM

Method: EPA 8270E-SIM
Instrument: NT8 Analyst: JZ

Sampled: 03/23/2023 11:00
Analyzed: 03/31/2023 17:30

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3520C (Liq Liq)
Preparation Batch: BLC0660
Prepared: 03/29/2023
Sample Size: 500 mL
Final Volume: 0.5 mL

Extract ID: 23C0577-04 V 01

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Naphthalene	91-20-3	1	0.10	ND	ug/L	U
2-Methylnaphthalene	91-57-6	1	0.10	ND	ug/L	U
1-Methylnaphthalene	90-12-0	1	0.10	ND	ug/L	U
Acenaphthylene	208-96-8	1	0.10	ND	ug/L	U
Acenaphthene	83-32-9	1	0.10	ND	ug/L	U
Dibenzofuran	132-64-9	1	0.10	ND	ug/L	U
Fluorene	86-73-7	1	0.10	ND	ug/L	U
Phenanthrene	85-01-8	1	0.10	ND	ug/L	U
Anthracene	120-12-7	1	0.10	ND	ug/L	U
Fluoranthene	206-44-0	1	0.10	ND	ug/L	U
Pyrene	129-00-0	1	0.10	ND	ug/L	U
Benzo(a)anthracene	56-55-3	1	0.10	ND	ug/L	U
Chrysene	218-01-9	1	0.10	ND	ug/L	U
Benzo(b)fluoranthene	205-99-2	1	0.10	ND	ug/L	U
Benzo(k)fluoranthene	207-08-9	1	0.10	ND	ug/L	U
Benzo(j)fluoranthene	205-82-3	1	0.10	ND	ug/L	U
Benzofluoranthenes, Total		1	0.20	0.27	ug/L	
Benzo(a)pyrene	50-32-8	1	0.10	ND	ug/L	U
Indeno(1,2,3-cd)pyrene	193-39-5	1	0.10	ND	ug/L	U
Dibenzo(a,h)anthracene	53-70-3	1	0.10	ND	ug/L	U
Benzo(g,h,i)perylene	191-24-2	1	0.10	ND	ug/L	U
Surrogate: 2-Methylnaphthalene-d10			*31-120 %*	*67.2*	*%*	
Surrogate: Dibenzo[a,h]anthracene-d14			*10-125 %*	*87.4*	*%*	

Pacific Groundwater Group	Project: Birds Eye	
2377 Eastlake Ave. E. Suite 200	Project Number: 518300040-002	**Reported:**
Seattle WA, 98102	Project Manager: Inger Jackson	15-Apr-2023 17:59

MW-12D+MS/MSD

23C0577-04 (Water)

Petroleum Hydrocarbons

Method: NWTPH-Dx — Sampled: 03/23/2023 11:00
Instrument: FID4 Analyst: AA — Analyzed: 04/04/2023 01:31

Analysis by: Analytical Resources, LLC

Sample Preparation:	Preparation Method: EPA 3510C SepF		Extract ID: 23C0577-04 S 01
	Preparation Batch: BLC0661	Sample Size: 500 mL	
	Prepared: 03/28/2023	Final Volume: 1 mL	
Sample Cleanup:	Cleanup Method: Silica Gel		Extract ID: 23C0577-04 S 01
	Cleanup Batch: CLD0002	Initial Volume: 1 uL	
	Cleaned: 03-Apr-2023	Final Volume: 1 uL	
Sample Cleanup:	Cleanup Method: Sulfuric Acid		Extract ID:23C0577-04 S 01
	Cleanup Batch: CLD0001	Initial Volume: 1 uL	
	Cleaned: 03-Apr-2023	Final Volume: 1 uL	

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Diesel Range Organics (C12-C24)	DRO	1	0.100	ND	mg/L	U
Motor Oil Range Organics (C24-C38)	RRO	1	0.200	ND	mg/L	U
Surrogate: o-Terphenyl			*50-150 %*	*103*	*%*	

Analytical Resources, LLC
Analytical Chemists and Consultants

Analytical Report

Pacific Groundwater Group	Project: Birds Eye	
2377 Eastlake Ave. E. Suite 200	Project Number: 518300040-002	**Reported:**
Seattle WA, 98102	Project Manager: Inger Jackson	15-Apr-2023 17:59

Trip Blank

23C0577-05 (Water)

Volatile Organic Compounds

Method: EPA 8260D — Sampled: 03/23/2023 10:40

Instrument: NT3 Analyst: TWC — Analyzed: 03/24/2023 19:26

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 5030C (Purge and Trap) — Extract ID: 23C0577-05 A

Preparation Batch: BLC0676 — Sample Size: 10 mL

Prepared: 03/24/2023 — Final Volume: 10 mL

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Benzene	71-43-2	1	0.20	ND	ug/L	U
Toluene	108-88-3	1	0.20	ND	ug/L	U
Ethylbenzene	100-41-4	1	0.20	ND	ug/L	U
m,p-Xylene	179601-23-1	1	0.40	ND	ug/L	U
o-Xylene	95-47-6	1	0.20	ND	ug/L	U
Surrogate: 1,2-Dichloroethane-d4			*80-129 %*	*96.3*	*%*	
Surrogate: Toluene-d8			*80-120 %*	*97.9*	*%*	
Surrogate: 4-Bromofluorobenzene			*80-120 %*	*98.5*	*%*	
Surrogate: 1,2-Dichlorobenzene-d4			*80-120 %*	*101*	*%*	

Pacific Groundwater Group	Project: Birds Eye	
2377 Eastlake Ave. E. Suite 200	Project Number: 518300040-002	**Reported:**
Seattle WA, 98102	Project Manager: Inger Jackson	15-Apr-2023 17:59

Trip Blank

23C0577-05 (Water)

Volatile Organic Compounds

Method: NWTPHg — Sampled: 03/23/2023 10:40

Instrument: NT3 Analyst: TWC — Analyzed: 03/24/2023 19:26

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 5030C (Purge and Trap) — Extract ID: 23C0577-05 A

Preparation Batch: BLC0676 — Sample Size: 10 mL

Prepared: 03/24/2023 — Final Volume: 10 mL

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Gasoline Range Organics (Tol-Nap)	GRO	1	100	ND	ug/L	U
Surrogate: Toluene-d8			*80-120 %*	*97.9*	*%*	
Surrogate: 4-Bromofluorobenzene			*80-120 %*	*98.5*	*%*	

Pacific Groundwater Group	Project: Birds Eye	
2377 Eastlake Ave. E. Suite 200	Project Number: 518300040-002	**Reported:**
Seattle WA, 98102	Project Manager: Inger Jackson	15-Apr-2023 17:59

MW-22S

23C0577-06 (Water)

Volatile Organic Compounds

Method: EPA 8260D — Sampled: 03/23/2023 10:45
Instrument: NT3 Analyst: TWC — Analyzed: 03/24/2023 22:01

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 5030C (Purge and Trap) — Extract ID: 23C0577-06 A
Preparation Batch: BLC0676 — Sample Size: 10 mL
Prepared: 03/24/2023 — Final Volume: 10 mL

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Benzene	71-43-2	1	0.20	ND	ug/L	U
Toluene	108-88-3	1	0.20	ND	ug/L	U
Ethylbenzene	100-41-4	1	0.20	ND	ug/L	U
m,p-Xylene	179601-23-1	1	0.40	ND	ug/L	U
o-Xylene	95-47-6	1	0.20	ND	ug/L	U
Surrogate: 1,2-Dichloroethane-d4			*80-129 %*	*107*	*%*	
Surrogate: Toluene-d8			*80-120 %*	*97.1*	*%*	
Surrogate: 4-Bromofluorobenzene			*80-120 %*	*95.4*	*%*	
Surrogate: 1,2-Dichlorobenzene-d4			*80-120 %*	*104*	*%*	

Pacific Groundwater Group	Project: Birds Eye	
2377 Eastlake Ave. E. Suite 200	Project Number: 518300040-002	**Reported:**
Seattle WA, 98102	Project Manager: Inger Jackson	15-Apr-2023 17:59

MW-22S

23C0577-06 (Water)

Volatile Organic Compounds

Method: NWTPHg — Sampled: 03/23/2023 10:45
Instrument: NT3 Analyst: TWC — Analyzed: 03/24/2023 22:01

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 5030C (Purge and Trap) — Extract ID: 23C0577-06 A
Preparation Batch: BLC0676 — Sample Size: 10 mL
Prepared: 03/24/2023 — Final Volume: 10 mL

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Gasoline Range Organics (Tol-Nap)	GRO	1	100	ND	ug/L	U
Surrogate: Toluene-d8			*80-120 %*	*97.1*	*%*	
Surrogate: 4-Bromofluorobenzene			*80-120 %*	*95.4*	*%*	

Pacific Groundwater Group	Project: Birds Eye	
2377 Eastlake Ave. E. Suite 200	Project Number: 518300040-002	**Reported:**
Seattle WA, 98102	Project Manager: Inger Jackson	15-Apr-2023 17:59

MW-22S

23C0577-06 (Water)

Semivolatile Organic Compounds - SIM

Method: EPA 8270E-SIM — Sampled: 03/23/2023 10:45
Instrument: NT8 Analyst: JZ — Analyzed: 04/05/2023 12:03

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3520C (Liq Liq) — Extract ID: 23C0577-06 H 01
Preparation Batch: BLC0660 — Sample Size: 500 mL
Prepared: 03/29/2023 — Final Volume: 0.5 mL

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Naphthalene	91-20-3	1	0.10	ND	ug/L	U
2-Methylnaphthalene	91-57-6	1	0.10	ND	ug/L	U
1-Methylnaphthalene	90-12-0	1	0.10	ND	ug/L	U
Acenaphthylene	208-96-8	1	0.10	ND	ug/L	U
Acenaphthene	83-32-9	1	0.10	ND	ug/L	U
Dibenzofuran	132-64-9	1	0.10	ND	ug/L	U
Fluorene	86-73-7	1	0.10	ND	ug/L	U
Phenanthrene	85-01-8	1	0.10	ND	ug/L	U
Anthracene	120-12-7	1	0.10	ND	ug/L	U
Fluoranthene	206-44-0	1	0.10	0.14	ug/L	
Pyrene	129-00-0	1	0.10	0.12	ug/L	
Benzo(a)anthracene	56-55-3	1	0.10	0.12	ug/L	
Chrysene	218-01-9	1	0.10	0.15	ug/L	
Benzo(b)fluoranthene	205-99-2	1	0.10	0.18	ug/L	
Benzo(k)fluoranthene	207-08-9	1	0.10	0.17	ug/L	
Benzo(j)fluoranthene	205-82-3	1	0.10	0.22	ug/L	
Benzofluoranthenes, Total		1	0.20	0.57	ug/L	
Benzo(a)pyrene	50-32-8	1	0.10	0.11	ug/L	
Indeno(1,2,3-cd)pyrene	193-39-5	1	0.10	0.13	ug/L	
Dibenzo(a,h)anthracene	53-70-3	1	0.10	0.14	ug/L	
Benzo(g,h,i)perylene	191-24-2	1	0.10	0.12	ug/L	
Surrogate: 2-Methylnaphthalene-d10			*31-120 %*	*65.8*	*%*	
Surrogate: Dibenzo[a,h]anthracene-d14			*10-125 %*	*72.8*	*%*	

Pacific Groundwater Group	Project: Birds Eye	
2377 Eastlake Ave. E. Suite 200	Project Number: 518300040-002	**Reported:**
Seattle WA, 98102	Project Manager: Inger Jackson	15-Apr-2023 17:59

MW-22S

23C0577-06RE1 (Water)

Semivolatile Organic Compounds - SIM

Method: EPA 8270E-SIM — Sampled: 03/23/2023 10:45
Instrument: NT8 Analyst: JZ — Analyzed: 04/12/2023 23:11

Analysis by: Analytical Resources, LLC

Sample Preparation: Preparation Method: EPA 3520C (Liq Liq) — Extract ID: 23C0577-06RE1 I 01
Preparation Batch: BLD0211 — Sample Size: 500 mL
Prepared: 04/11/2023 — Final Volume: 0.5 mL

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Naphthalene	91-20-3	1	0.10	ND	ug/L	H, U
2-Methylnaphthalene	91-57-6	1	0.10	ND	ug/L	H, U
1-Methylnaphthalene	90-12-0	1	0.10	ND	ug/L	H, U
Acenaphthylene	208-96-8	1	0.10	ND	ug/L	H, U
Acenaphthene	83-32-9	1	0.10	ND	ug/L	H, U
Dibenzofuran	132-64-9	1	0.10	ND	ug/L	H, U
Fluorene	86-73-7	1	0.10	ND	ug/L	H, U
Phenanthrene	85-01-8	1	0.10	ND	ug/L	H, U
Anthracene	120-12-7	1	0.10	ND	ug/L	H, U
Fluoranthene	206-44-0	1	0.10	ND	ug/L	H, U
Pyrene	129-00-0	1	0.10	ND	ug/L	H, U
Benzo(a)anthracene	56-55-3	1	0.10	ND	ug/L	H, U
Chrysene	218-01-9	1	0.10	ND	ug/L	H, U
Benzo(b)fluoranthene	205-99-2	1	0.10	ND	ug/L	H, U
Benzo(k)fluoranthene	207-08-9	1	0.10	ND	ug/L	H, U
Benzo(j)fluoranthene	205-82-3	1	0.10	ND	ug/L	H, U
Benzofluoranthenes, Total		1	0.20	ND	ug/L	H, U
Benzo(a)pyrene	50-32-8	1	0.10	ND	ug/L	H, U
Indeno(1,2,3-cd)pyrene	193-39-5	1	0.10	ND	ug/L	H, U
Dibenzo(a,h)anthracene	53-70-3	1	0.10	ND	ug/L	H, U
Benzo(g,h,i)perylene	191-24-2	1	0.10	ND	ug/L	H, U
Surrogate: 2-Methylnaphthalene-d10			*31-120 %*	*70.6*	*%*	H
Surrogate: Dibenzo[a,h]anthracene-d14			*10-125 %*	*134*	*%*	*, H

Pacific Groundwater Group	Project: Birds Eye	
2377 Eastlake Ave. E. Suite 200	Project Number: 518300040-002	**Reported:**
Seattle WA, 98102	Project Manager: Inger Jackson	15-Apr-2023 17:59

Analysis by: Analytical Resources, LLC

Volatile Organic Compounds - Quality Control

Batch BLC0676 - NWTPHg

Instrument: NT3 Analyst: TWC

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BLC0676-BLK1)				Prepared: 24-Mar-2023 Analyzed: 24-Mar-2023 19:04						
Gasoline Range Organics (Tol-Nap)	ND	100	ug/L							U
Surrogate: Toluene-d8	4.88		ug/L	*5.00*		*97.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	4.86		ug/L	*5.00*		*97.2*	*80-120*			
Blank (BLC0676-BLK2)				Prepared: 24-Mar-2023 Analyzed: 24-Mar-2023 19:04						
Benzene	ND	0.20	ug/L							U
Toluene	ND	0.20	ug/L							U
Ethylbenzene	ND	0.20	ug/L							U
m,p-Xylene	ND	0.40	ug/L							U
o-Xylene	ND	0.20	ug/L							U
Surrogate: 1,2-Dichloroethane-d4	4.96		ug/L	*5.00*		*99.1*	*80-129*			
Surrogate: Toluene-d8	4.88		ug/L	*5.00*		*97.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	4.86		ug/L	*5.00*		*97.2*	*80-120*			
Surrogate: 1,2-Dichlorobenzene-d4	4.89		ug/L	*5.00*		*97.8*	*80-120*			
LCS (BLC0676-BS1)				Prepared: 24-Mar-2023 Analyzed: 24-Mar-2023 16:38						
Gasoline Range Organics (Tol-Nap)	1010	100	ug/L	1000		101	72-128			
Surrogate: Toluene-d8	4.82		ug/L	*5.00*		*96.4*	*80-120*			
Surrogate: 4-Bromofluorobenzene	5.03		ug/L	*5.00*		*101*	*80-120*			
LCS (BLC0676-BS2)				Prepared: 24-Mar-2023 Analyzed: 24-Mar-2023 17:36						
Benzene	9.97	0.20	ug/L	10.0		99.7	80-120			
Toluene	10.2	0.20	ug/L	10.0		102	80-120			
Ethylbenzene	10.4	0.20	ug/L	10.0		104	80-120			
m,p-Xylene	21.6	0.40	ug/L	20.0		108	80-121			
o-Xylene	10.6	0.20	ug/L	10.0		106	80-121			
Surrogate: 1,2-Dichloroethane-d4	4.95		ug/L	*5.00*		*99.0*	*80-129*			
Surrogate: Toluene-d8	4.99		ug/L	*5.00*		*99.9*	*80-120*			
Surrogate: 4-Bromofluorobenzene	5.13		ug/L	*5.00*		*103*	*80-120*			
Surrogate: 1,2-Dichlorobenzene-d4	5.02		ug/L	*5.00*		*100*	*80-120*			
LCS Dup (BLC0676-BSD1)				Prepared: 24-Mar-2023 Analyzed: 24-Mar-2023 17:58						
Gasoline Range Organics (Tol-Nap)	1010	100	ug/L	1000		101	72-128	0.57	30	
Surrogate: Toluene-d8	4.99		ug/L	*5.00*		*99.7*	*80-120*			

Pacific Groundwater Group	Project: Birds Eye	
2377 Eastlake Ave. E. Suite 200	Project Number: 518300040-002	**Reported:**
Seattle WA, 98102	Project Manager: Inger Jackson	15-Apr-2023 17:59

Analysis by: Analytical Resources, LLC

Volatile Organic Compounds - Quality Control

Batch BLC0676 - NWTPHg

Instrument: NT3 Analyst: TWC

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS Dup (BLC0676-BSD1)				Prepared: 24-Mar-2023 Analyzed: 24-Mar-2023 17:58						
Surrogate: 4-Bromofluorobenzene	4.97		ug/L	*5.00*		*99.4*	*80-120*			
LCS Dup (BLC0676-BSD2)				Prepared: 24-Mar-2023 Analyzed: 24-Mar-2023 18:20						
Benzene	10.3	0.20	ug/L	10.0		103	80-120	3.11	30	
Toluene	10.3	0.20	ug/L	10.0		103	80-120	1.17	30	
Ethylbenzene	10.6	0.20	ug/L	10.0		106	80-120	1.59	30	
m,p-Xylene	22.0	0.40	ug/L	20.0		110	80-121	1.80	30	
o-Xylene	10.6	0.20	ug/L	10.0		106	80-121	0.34	30	
Surrogate: 1,2-Dichloroethane-d4	4.82		ug/L	*5.00*		*96.4*	*80-129*			
Surrogate: Toluene-d8	5.00		ug/L	*5.00*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	5.05		ug/L	*5.00*		*101*	*80-120*			
Surrogate: 1,2-Dichlorobenzene-d4	5.11		ug/L	*5.00*		*102*	*80-120*			
Matrix Spike (BLC0676-MS1)	**Source: 23C0577-04**			Prepared: 24-Mar-2023 Analyzed: 24-Mar-2023 22:23						
Gasoline Range Organics (Tol-Nap)	811	100	ug/L	1000	ND	81.1	72-128			
Surrogate: Toluene-d8	4.96		ug/L	*5.00*	*4.90*	*99.1*	*80-120*			
Surrogate: 4-Bromofluorobenzene	5.08		ug/L	*5.00*	*4.77*	*102*	*80-120*			
Recovery limits for target analytes in MS/MSD QC samples are advisory only.										
Matrix Spike (BLC0676-MS2)	**Source: 23C0577-04**			Prepared: 24-Mar-2023 Analyzed: 24-Mar-2023 23:08						
Benzene	9.22	0.20	ug/L	10.0	ND	92.2	80-120			
Toluene	9.07	0.20	ug/L	10.0	ND	90.7	80-120			
Ethylbenzene	8.99	0.20	ug/L	10.0	ND	89.9	80-120			
m,p-Xylene	18.3	0.40	ug/L	20.0	ND	91.3	80-121			
o-Xylene	9.04	0.20	ug/L	10.0	ND	90.4	80-121			
Surrogate: 1,2-Dichloroethane-d4	4.99		ug/L	*5.00*	*5.32*	*99.8*	*80-129*			
Surrogate: Toluene-d8	5.11		ug/L	*5.00*	*4.90*	*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	4.87		ug/L	*5.00*	*4.77*	*97.5*	*80-120*			
Surrogate: 1,2-Dichlorobenzene-d4	5.15		ug/L	*5.00*	*5.09*	*103*	*80-120*			
Recovery limits for target analytes in MS/MSD QC samples are advisory only.										
Matrix Spike Dup (BLC0676-MSD1)	**Source: 23C0577-04**			Prepared: 24-Mar-2023 Analyzed: 24-Mar-2023 22:45						
Gasoline Range Organics (Tol-Nap)	806	100	ug/L	1000	ND	80.6	72-128	0.58	30	
Surrogate: Toluene-d8	4.96		ug/L	*5.00*	*4.90*	*99.2*	*80-120*			

Pacific Groundwater Group	Project: Birds Eye	
2377 Eastlake Ave. E. Suite 200	Project Number: 518300040-002	**Reported:**
Seattle WA, 98102	Project Manager: Inger Jackson	15-Apr-2023 17:59

Analysis by: Analytical Resources, LLC

Volatile Organic Compounds - Quality Control

Batch BLC0676 - NWTPHg

Instrument: NT3 Analyst: TWC

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Matrix Spike Dup (BLC0676-MSD1)	**Source: 23C0577-04**		Prepared: 24-Mar-2023 Analyzed: 24-Mar-2023 22:45							
Surrogate: 4-Bromofluorobenzene	5.06		ug/L	*5.00*	*4.77*	*101*	*80-120*			
Recovery limits for target analytes in MS/MSD QC samples are advisory only.										
Matrix Spike Dup (BLC0676-MSD2)	**Source: 23C0577-04**		Prepared: 24-Mar-2023 Analyzed: 24-Mar-2023 23:30							
Benzene	8.65	0.20	ug/L	10.0	ND	86.5	80-120	6.42	30	
Toluene	8.63	0.20	ug/L	10.0	ND	86.3	80-120	4.93	30	
Ethylbenzene	8.49	0.20	ug/L	10.0	ND	84.9	80-120	5.70	30	
m,p-Xylene	17.7	0.40	ug/L	20.0	ND	88.7	80-121	2.87	30	
o-Xylene	8.50	0.20	ug/L	10.0	ND	85.0	80-121	6.16	30	
Surrogate: 1,2-Dichloroethane-d4	5.34		ug/L	*5.00*	*5.32*	*107*	*80-129*			
Surrogate: Toluene-d8	4.96		ug/L	*5.00*	*4.90*	*99.2*	*80-120*			
Surrogate: 4-Bromofluorobenzene	5.00		ug/L	*5.00*	*4.77*	*100*	*80-120*			
Surrogate: 1,2-Dichlorobenzene-d4	5.08		ug/L	*5.00*	*5.09*	*102*	*80-120*			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.

Pacific Groundwater Group	Project: Birds Eye	
2377 Eastlake Ave. E. Suite 200	Project Number: 518300040-002	**Reported:**
Seattle WA, 98102	Project Manager: Inger Jackson	15-Apr-2023 17:59

Analysis by: Analytical Resources, LLC

Semivolatile Organic Compounds - SIM - Quality Control

Batch BLC0660 - EPA 8270E-SIM

Instrument: NT8 Analyst: JZ

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BLC0660-BLK1)				Prepared: 29-Mar-2023 Analyzed: 31-Mar-2023 15:15						
Naphthalene	ND	0.10	ug/L							U
2-Methylnaphthalene	ND	0.10	ug/L							U
1-Methylnaphthalene	ND	0.10	ug/L							U
Acenaphthylene	ND	0.10	ug/L							U
Acenaphthene	ND	0.10	ug/L							U
Dibenzofuran	ND	0.10	ug/L							U
Fluorene	ND	0.10	ug/L							U
Phenanthrene	ND	0.10	ug/L							U
Anthracene	ND	0.10	ug/L							U
Fluoranthene	ND	0.10	ug/L							U
Pyrene	ND	0.10	ug/L							U
Benzo(a)anthracene	ND	0.10	ug/L							U
Chrysene	ND	0.10	ug/L							U
Benzo(b)fluoranthene	ND	0.10	ug/L							U
Benzo(k)fluoranthene	ND	0.10	ug/L							U
Benzo(j)fluoranthene	ND	0.10	ug/L							U
Benzofluoranthenes, Total	ND	0.20	ug/L							U
Benzo(a)pyrene	ND	0.10	ug/L							U
Indeno(1,2,3-cd)pyrene	ND	0.10	ug/L							U
Dibenzo(a,h)anthracene	ND	0.10	ug/L							U
Benzo(g,h,i)perylene	ND	0.10	ug/L							U
Surrogate: 2-Methylnaphthalene-d10	2.03		ug/L	*3.00*		*67.6*	*31-120*			
Surrogate: Dibenzo[a,h]anthracene-d14	2.91		ug/L	*3.00*		*97.1*	*10-125*			
LCS (BLC0660-BS1)				Prepared: 29-Mar-2023 Analyzed: 31-Mar-2023 15:42						
Naphthalene	1.48	0.10	ug/L	3.00		49.3	33-120			
2-Methylnaphthalene	1.45	0.10	ug/L	3.00		48.4	29-120			
1-Methylnaphthalene	1.51	0.10	ug/L	3.00		50.2	37-120			
Acenaphthylene	1.28	0.10	ug/L	3.00		42.6	32-120			
Acenaphthene	1.42	0.10	ug/L	3.00		47.4	38-120			
Dibenzofuran	1.48	0.10	ug/L	3.00		49.4	38-120			
Fluorene	1.56	0.10	ug/L	3.00		51.9	41-120			
Phenanthrene	1.49	0.10	ug/L	3.00		49.7	49-120			
Anthracene	1.35	0.10	ug/L	3.00		44.9	39-120			
Fluoranthene	1.65	0.10	ug/L	3.00		55.1	48-120			

Pacific Groundwater Group	Project: Birds Eye	
2377 Eastlake Ave. E. Suite 200	Project Number: 518300040-002	**Reported:**
Seattle WA, 98102	Project Manager: Inger Jackson	15-Apr-2023 17:59

Analysis by: Analytical Resources, LLC

Semivolatile Organic Compounds - SIM - Quality Control

Batch BLC0660 - EPA 8270E-SIM

Instrument: NT8 Analyst: JZ

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS (BLC0660-BS1)				Prepared: 29-Mar-2023 Analyzed: 31-Mar-2023 15:42						
Pyrene	1.60	0.10	ug/L	3.00		53.5	48-120			
Benzo(a)anthracene	1.51	0.10	ug/L	3.00		50.4	37-120			
Chrysene	1.61	0.10	ug/L	3.00		53.7	48-120			
Benzo(b)fluoranthene	2.23	0.10	ug/L	3.00		74.4	38-128			
Benzo(k)fluoranthene	2.22	0.10	ug/L	3.00		74.0	36-130			
Benzo(j)fluoranthene	2.47	0.10	ug/L	3.00		82.4	49-120			
Benzofluoranthenes, Total	6.94	0.20	ug/L	9.00		77.2	46-120			
Benzo(a)pyrene	1.45	0.10	ug/L	3.00		48.2	25-120			
Indeno(1,2,3-cd)pyrene	2.05	0.10	ug/L	3.00		68.4	32-120			
Dibenzo(a,h)anthracene	2.19	0.10	ug/L	3.00		73.1	21-120			
Benzo(g,h,i)perylene	2.13	0.10	ug/L	3.00		71.1	28-120			
Surrogate: 2-Methylnaphthalene-d10	1.97		ug/L	*3.00*		*65.6*	*31-120*			
Surrogate: Dibenzo[a,h]anthracene-d14	3.10		ug/L	*3.00*		*103*	*10-125*			
Matrix Spike (BLC0660-MS1)	**Source: 23C0577-04**			Prepared: 29-Mar-2023 Analyzed: 31-Mar-2023 17:57						
Naphthalene	1.41	0.10	ug/L	3.00	ND	46.2	33-120			
2-Methylnaphthalene	1.42	0.10	ug/L	3.00	ND	47.3	29-120			
1-Methylnaphthalene	1.43	0.10	ug/L	3.00	ND	47.8	37-120			
Acenaphthylene	1.24	0.10	ug/L	3.00	ND	41.3	32-120			
Acenaphthene	1.37	0.10	ug/L	3.00	ND	45.5	38-120			
Dibenzofuran	1.43	0.10	ug/L	3.00	ND	47.5	38-120			
Fluorene	1.49	0.10	ug/L	3.00	ND	49.8	41-120			
Phenanthrene	1.45	0.10	ug/L	3.00	ND	48.2	49-120			*
Anthracene	1.36	0.10	ug/L	3.00	ND	44.1	39-120			
Fluoranthene	1.59	0.10	ug/L	3.00	ND	51.1	48-120			
Pyrene	1.56	0.10	ug/L	3.00	ND	50.1	48-120			
Benzo(a)anthracene	1.58	0.10	ug/L	3.00	ND	50.4	37-120			
Chrysene	1.56	0.10	ug/L	3.00	ND	49.6	48-120			
Benzo(b)fluoranthene	2.01	0.10	ug/L	3.00	ND	63.9	38-128			
Benzo(k)fluoranthene	1.93	0.10	ug/L	3.00	ND	61.2	36-130			
Benzo(j)fluoranthene	2.13	0.10	ug/L	3.00	ND	68.0	49-120			
Benzofluoranthenes, Total	6.02	0.20	ug/L	9.00	0.27	63.9	46-120			
Benzo(a)pyrene	1.49	0.10	ug/L	3.00	ND	47.9	25-120			
Indeno(1,2,3-cd)pyrene	1.82	0.10	ug/L	3.00	ND	60.8	32-120			
Dibenzo(a,h)anthracene	1.88	0.10	ug/L	3.00	ND	62.6	21-120			

Pacific Groundwater Group	Project: Birds Eye	
2377 Eastlake Ave. E. Suite 200	Project Number: 518300040-002	**Reported:**
Seattle WA, 98102	Project Manager: Inger Jackson	15-Apr-2023 17:59

Analysis by: Analytical Resources, LLC

Semivolatile Organic Compounds - SIM - Quality Control

Batch BLC0660 - EPA 8270E-SIM

Instrument: NT8 Analyst: JZ

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Matrix Spike (BLC0660-MS1)	**Source: 23C0577-04**		Prepared: 29-Mar-2023 Analyzed: 31-Mar-2023 17:57							
Benzo(g,h,i)perylene	1.90	0.10	ug/L	3.00	ND	60.8	28-120			
Surrogate: 2-Methylnaphthalene-d10	2.00		ug/L	*3.00*	*2.02*	*66.8*	*31-120*			
Surrogate: Dibenzo[a,h]anthracene-d14	2.90		ug/L	*3.00*	*2.62*	*96.6*	*10-125*			
Recovery limits for target analytes in MS/MSD QC samples are advisory only.										
Matrix Spike Dup (BLC0660-MSD1)	**Source: 23C0577-04**		Prepared: 29-Mar-2023 Analyzed: 05-Apr-2023 12:33							
Naphthalene	1.63	0.10	ug/L	3.00	ND	53.5	33-120	14.40	30	
2-Methylnaphthalene	1.65	0.10	ug/L	3.00	ND	55.1	29-120	15.20	30	
1-Methylnaphthalene	1.69	0.10	ug/L	3.00	ND	56.4	37-120	16.60	30	
Acenaphthylene	1.46	0.10	ug/L	3.00	ND	48.7	32-120	16.50	30	
Acenaphthene	1.63	0.10	ug/L	3.00	ND	54.4	38-120	17.80	30	
Dibenzofuran	1.69	0.10	ug/L	3.00	ND	56.3	38-120	16.90	30	
Fluorene	1.80	0.10	ug/L	3.00	ND	59.9	41-120	18.50	30	
Phenanthrene	1.71	0.10	ug/L	3.00	ND	56.9	49-120	16.60	30	
Anthracene	1.69	0.10	ug/L	3.00	ND	55.4	39-120	22.00	30	
Fluoranthene	1.87	0.10	ug/L	3.00	ND	60.4	48-120	16.10	30	
Pyrene	1.89	0.10	ug/L	3.00	ND	61.0	48-120	19.00	30	
Benzo(a)anthracene	1.88	0.10	ug/L	3.00	ND	60.4	37-120	17.40	30	
Chrysene	1.80	0.10	ug/L	3.00	ND	57.8	48-120	14.80	30	
Benzo(b)fluoranthene	2.40	0.10	ug/L	3.00	ND	77.1	38-128	17.90	30	
Benzo(k)fluoranthene	2.35	0.10	ug/L	3.00	ND	75.2	36-130	19.60	30	
Benzo(j)fluoranthene	2.62	0.10	ug/L	3.00	ND	84.3	49-120	20.60	30	
Benzofluoranthenes, Total	7.31	0.20	ug/L	9.00	0.27	78.2	46-120	19.40	30	
Benzo(a)pyrene	1.81	0.10	ug/L	3.00	ND	58.4	25-120	19.10	30	
Indeno(1,2,3-cd)pyrene	2.01	0.10	ug/L	3.00	ND	67.0	32-120	9.69	30	
Dibenzo(a,h)anthracene	2.20	0.10	ug/L	3.00	ND	73.3	21-120	15.80	30	
Benzo(g,h,i)perylene	2.19	0.10	ug/L	3.00	ND	70.4	28-120	14.20	30	
Surrogate: 2-Methylnaphthalene-d10	2.40		ug/L	*3.00*	*2.02*	*79.9*	*31-120*			
Surrogate: Dibenzo[a,h]anthracene-d14	3.03		ug/L	*3.00*	*2.62*	*101*	*10-125*			
Recovery limits for target analytes in MS/MSD QC samples are advisory only.										

Pacific Groundwater Group	Project: Birds Eye	
2377 Eastlake Ave. E. Suite 200	Project Number: 518300040-002	**Reported:**
Seattle WA, 98102	Project Manager: Inger Jackson	15-Apr-2023 17:59

Analysis by: Analytical Resources, LLC

Semivolatile Organic Compounds - SIM - Quality Control

Batch BLD0211 - EPA 8270E-SIM

Instrument: NT8 Analyst: JZ

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BLD0211-BLK1)				Prepared: 11-Apr-2023 Analyzed: 12-Apr-2023 21:50						
Naphthalene	ND	0.10	ug/L							U
2-Methylnaphthalene	ND	0.10	ug/L							U
1-Methylnaphthalene	ND	0.10	ug/L							U
Acenaphthylene	ND	0.10	ug/L							U
Acenaphthene	ND	0.10	ug/L							U
Dibenzofuran	ND	0.10	ug/L							U
Fluorene	ND	0.10	ug/L							U
Phenanthrene	ND	0.10	ug/L							U
Anthracene	ND	0.10	ug/L							U
Fluoranthene	ND	0.10	ug/L							U
Pyrene	ND	0.10	ug/L							U
Benzo(a)anthracene	ND	0.10	ug/L							U
Chrysene	ND	0.10	ug/L							U
Benzo(b)fluoranthene	ND	0.10	ug/L							U
Benzo(k)fluoranthene	ND	0.10	ug/L							U
Benzo(j)fluoranthene	ND	0.10	ug/L							U
Benzofluoranthenes, Total	ND	0.20	ug/L							U
Benzo(a)pyrene	ND	0.10	ug/L							U
Indeno(1,2,3-cd)pyrene	ND	0.10	ug/L							U
Dibenzo(a,h)anthracene	ND	0.10	ug/L							U
Benzo(g,h,i)perylene	ND	0.10	ug/L							U
Surrogate: 2-Methylnaphthalene-d10	2.37		ug/L	*3.00*		*78.9*	*31-120*			
Surrogate: Dibenzo[a,h]anthracene-d14	4.60		ug/L	*3.00*		*153*	*10-125*			*
LCS (BLD0211-BS1)				Prepared: 11-Apr-2023 Analyzed: 12-Apr-2023 22:17						
Naphthalene	1.72	0.10	ug/L	3.00		57.4	33-120			
2-Methylnaphthalene	1.77	0.10	ug/L	3.00		58.9	29-120			
1-Methylnaphthalene	1.80	0.10	ug/L	3.00		60.1	37-120			
Acenaphthylene	1.62	0.10	ug/L	3.00		53.9	32-120			
Acenaphthene	1.82	0.10	ug/L	3.00		60.8	38-120			
Dibenzofuran	1.91	0.10	ug/L	3.00		63.6	38-120			
Fluorene	2.01	0.10	ug/L	3.00		66.9	41-120			
Phenanthrene	2.07	0.10	ug/L	3.00		68.8	49-120			
Anthracene	1.96	0.10	ug/L	3.00		65.4	39-120			
Fluoranthene	2.33	0.10	ug/L	3.00		77.5	48-120			

Pacific Groundwater Group	Project: Birds Eye	
2377 Eastlake Ave. E. Suite 200	Project Number: 518300040-002	**Reported:**
Seattle WA, 98102	Project Manager: Inger Jackson	15-Apr-2023 17:59

Analysis by: Analytical Resources, LLC

Semivolatile Organic Compounds - SIM - Quality Control

Batch BLD0211 - EPA 8270E-SIM

Instrument: NT8 Analyst: JZ

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS (BLD0211-BS1)				Prepared: 11-Apr-2023	Analyzed: 12-Apr-2023 22:17					
Pyrene	2.39	0.10	ug/L	3.00		79.7	48-120			
Benzo(a)anthracene	2.40	0.10	ug/L	3.00		80.1	37-120			
Chrysene	2.31	0.10	ug/L	3.00		77.1	48-120			
Benzo(b)fluoranthene	3.08	0.10	ug/L	3.00		103	38-128			
Benzo(k)fluoranthene	2.90	0.10	ug/L	3.00		96.6	36-130			
Benzo(j)fluoranthene	3.10	0.10	ug/L	3.00		103	49-120			
Benzofluoranthenes, Total	8.99	0.20	ug/L	9.00		99.9	46-120			
Benzo(a)pyrene	2.20	0.10	ug/L	3.00		73.4	25-120			
Indeno(1,2,3-cd)pyrene	2.37	0.10	ug/L	3.00		79.0	32-120			
Dibenzo(a,h)anthracene	2.53	0.10	ug/L	3.00		84.5	21-120			
Benzo(g,h,i)perylene	2.62	0.10	ug/L	3.00		87.5	28-120			
Surrogate: 2-Methylnaphthalene-d10	2.48		ug/L	*3.00*		*82.5*	*31-120*			
Surrogate: Dibenzo[a,h]anthracene-d14	3.96		ug/L	*3.00*		*132*	*10-125*			*
LCS Dup (BLD0211-BSD1)				Prepared: 11-Apr-2023	Analyzed: 12-Apr-2023 22:44					
Naphthalene	1.64	0.10	ug/L	3.00		54.6	33-120	5.12	30	
2-Methylnaphthalene	1.73	0.10	ug/L	3.00		57.6	29-120	2.16	30	
1-Methylnaphthalene	1.71	0.10	ug/L	3.00		57.1	37-120	4.99	30	
Acenaphthylene	1.51	0.10	ug/L	3.00		50.2	32-120	7.08	30	
Acenaphthene	1.79	0.10	ug/L	3.00		59.5	38-120	2.16	30	
Dibenzofuran	1.83	0.10	ug/L	3.00		60.9	38-120	4.33	30	
Fluorene	1.97	0.10	ug/L	3.00		65.8	41-120	1.69	30	
Phenanthrene	2.07	0.10	ug/L	3.00		69.0	49-120	0.26	30	
Anthracene	2.00	0.10	ug/L	3.00		66.5	39-120	1.73	30	
Fluoranthene	2.35	0.10	ug/L	3.00		78.3	48-120	0.95	30	
Pyrene	2.43	0.10	ug/L	3.00		81.0	48-120	1.64	30	
Benzo(a)anthracene	2.45	0.10	ug/L	3.00		81.8	37-120	2.11	30	
Chrysene	2.34	0.10	ug/L	3.00		77.9	48-120	1.06	30	
Benzo(b)fluoranthene	2.89	0.10	ug/L	3.00		96.4	38-128	6.35	30	
Benzo(k)fluoranthene	2.76	0.10	ug/L	3.00		91.9	36-130	4.93	30	
Benzo(j)fluoranthene	2.96	0.10	ug/L	3.00		98.8	49-120	4.52	30	
Benzofluoranthenes, Total	8.64	0.20	ug/L	9.00		96.0	46-120	3.99	30	
Benzo(a)pyrene	2.21	0.10	ug/L	3.00		73.7	25-120	0.40	30	
Indeno(1,2,3-cd)pyrene	2.49	0.10	ug/L	3.00		83.1	32-120	5.02	30	
Dibenzo(a,h)anthracene	2.73	0.10	ug/L	3.00		90.9	21-120	7.36	30	

Pacific Groundwater Group	Project: Birds Eye	
2377 Eastlake Ave. E. Suite 200	Project Number: 518300040-002	**Reported:**
Seattle WA, 98102	Project Manager: Inger Jackson	15-Apr-2023 17:59

Analysis by: Analytical Resources, LLC

Semivolatile Organic Compounds - SIM - Quality Control

Batch BLD0211 - EPA 8270E-SIM

Instrument: NT8 Analyst: JZ

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS Dup (BLD0211-BSD1)				Prepared: 11-Apr-2023 Analyzed: 12-Apr-2023 22:44						
Benzo(g,h,i)perylene	2.71	0.10	ug/L	3.00		90.4	28-120	3.27	30	
Surrogate: 2-Methylnaphthalene-d10	2.27		ug/L	*3.00*		*75.6*	*31-120*			
Surrogate: Dibenzo[a,h]anthracene-d14	3.87		ug/L	*3.00*		*129*	*10-125*			*

Pacific Groundwater Group	Project: Birds Eye	
2377 Eastlake Ave. E. Suite 200	Project Number: 518300040-002	**Reported:**
Seattle WA, 98102	Project Manager: Inger Jackson	15-Apr-2023 17:59

Analysis by: Analytical Resources, LLC

Petroleum Hydrocarbons - Quality Control

Batch BLC0661 - NWTPH-Dx

Instrument: FID4 Analyst: AA

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BLC0661-BLK1)				Prepared: 28-Mar-2023 Analyzed: 03-Apr-2023 23:55						
Diesel Range Organics (C12-C24)	ND	0.100	mg/L							U
Motor Oil Range Organics (C24-C38)	ND	0.200	mg/L							U
Surrogate: o-Terphenyl	0.237		mg/L	*0.225*		*105*	*50-150*			
LCS (BLC0661-BS1)				Prepared: 28-Mar-2023 Analyzed: 04-Apr-2023 00:14						
Diesel Range Organics (C12-C24)	2.53	0.100	mg/L	3.00		84.4	56-120			
Surrogate: o-Terphenyl	0.237		mg/L	*0.225*		*105*	*50-150*			
Matrix Spike (BLC0661-MS1)	**Source: 23C0577-04**			Prepared: 28-Mar-2023 Analyzed: 04-Apr-2023 01:51						
Diesel Range Organics (C12-C24)	2.59	0.100	mg/L	3.00	ND	86.4	56-120			
Surrogate: o-Terphenyl	0.229		mg/L	*0.225*	*0.232*	*102*	*50-150*			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.

Matrix Spike Dup (BLC0661-MSD1)	**Source: 23C0577-04**			Prepared: 28-Mar-2023 Analyzed: 04-Apr-2023 02:10						
Diesel Range Organics (C12-C24)	2.61	0.100	mg/L	3.00	ND	87.0	56-120	0.68	30	
Surrogate: o-Terphenyl	0.236		mg/L	*0.225*	*0.232*	*105*	*50-150*			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.

Pacific Groundwater Group	Project: Birds Eye	
2377 Eastlake Ave. E. Suite 200	Project Number: 518300040-002	**Reported:**
Seattle WA, 98102	Project Manager: Inger Jackson	15-Apr-2023 17:59

Certified Analyses included in this Report

Analyte	Certifications
EPA 8260D in Water	
Benzene	DoD-ELAP,ADEC,NELAP,WADOE
Benzene	DoD-ELAP,ADEC,NELAP,WADOE
Benzene	DoD-ELAP,ADEC,NELAP,WADOE
Benzene	DoD-ELAP,ADEC,NELAP,WADOE
Toluene	DoD-ELAP,ADEC,NELAP,WADOE
Toluene	DoD-ELAP,ADEC,NELAP,WADOE
Toluene	DoD-ELAP,ADEC,NELAP,WADOE
Toluene	DoD-ELAP,ADEC,NELAP,WADOE
Ethylbenzene	DoD-ELAP,ADEC,NELAP,WADOE
Ethylbenzene	DoD-ELAP,ADEC,NELAP,WADOE
Ethylbenzene	DoD-ELAP,ADEC,NELAP,WADOE
Ethylbenzene	DoD-ELAP,ADEC,NELAP,WADOE
m,p-Xylene	DoD-ELAP,ADEC,NELAP,WADOE
m,p-Xylene	DoD-ELAP,ADEC,NELAP,WADOE
m,p-Xylene	DoD-ELAP,ADEC,NELAP,WADOE
m,p-Xylene	DoD-ELAP,ADEC,NELAP,WADOE
o-Xylene	DoD-ELAP,ADEC,NELAP,WADOE
o-Xylene	DoD-ELAP,ADEC,NELAP,WADOE
o-Xylene	DoD-ELAP,ADEC,NELAP,WADOE
o-Xylene	DoD-ELAP,ADEC,NELAP,WADOE
EPA 8270E-SIM in Water	
Naphthalene	DoD-ELAP
2-Methylnaphthalene	DoD-ELAP
1-Methylnaphthalene	DoD-ELAP
Acenaphthylene	DoD-ELAP
Acenaphthene	DoD-ELAP
Dibenzofuran	DoD-ELAP
Fluorene	DoD-ELAP
Phenanthrene	DoD-ELAP
Anthracene	DoD-ELAP

Pacific Groundwater Group	Project: Birds Eye	
2377 Eastlake Ave. E. Suite 200	Project Number: 518300040-002	**Reported:**
Seattle WA, 98102	Project Manager: Inger Jackson	15-Apr-2023 17:59

Fluoranthene	DoD-ELAP
Pyrene	DoD-ELAP
Benzo(a)anthracene	DoD-ELAP
Chrysene	DoD-ELAP
Benzo(b)fluoranthene	DoD-ELAP
Benzo(k)fluoranthene	DoD-ELAP
Benzo(j)fluoranthene	DoD-ELAP
Benzofluoranthenes, Total	DoD-ELAP
Benzo(a)pyrene	DoD-ELAP
Indeno(1,2,3-cd)pyrene	DoD-ELAP
Dibenzo(a,h)anthracene	DoD-ELAP
Benzo(g,h,i)perylene	DoD-ELAP

NWTPH-Dx in Water

Diesel Range Organics (C12-C2	DoD-ELAP,NELAP,WADOE
Motor Oil Range Organics (C24-	DoD-ELAP,NELAP,WADOE

NWTPHg in Water

Gasoline Range Organics (Tol-N	WADOE,DoD-ELAP
Gasoline Range Organics (Tol-N	WADOE,DoD-ELAP
Gasoline Range Organics (Tol-N	WADOE,DoD-ELAP
Gasoline Range Organics (Tol-N	WADOE,DoD-ELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2023
WADOE	WA Dept of Ecology	C558	06/30/2023
WA-DW	Ecology - Drinking Water	C558	06/30/2023

Pacific Groundwater Group	Project: Birds Eye	
2377 Eastlake Ave. E. Suite 200	Project Number: 518300040-002	**Reported:**
Seattle WA, 98102	Project Manager: Inger Jackson	15-Apr-2023 17:59

Notes and Definitions

*	Flagged value is not within established control limits.
D	The reported value is from a dilution
D1	Surrogate was not detected due to sample extract dilution
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL)
H	Hold time violation - Hold time was exceeded.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.