PACIFIC groundwater GROUP

A Mott MacDonald Company

December 21, 2021

Rob Olsen, REHS
Tacoma - Pierce County Health Department
Environmental Health Specialist
3629 South D Street
Tacoma, WA 98418-6813

Re: Birds Eye Foods Boiler Room Site
Summary Report for 2021 Q3 Semi-Annual Groundwater Monitoring Event

Dear Rob:

Pacific Groundwater Group (PGG), a Division of Mott MacDonald, is pleased to present this letter report on behalf of our client, Conagra Brands, to summarize semi-annual groundwater monitoring performed in the third quarter 2021 (2021 Q3) at the former Birds Eye Foods facility located at 3303 South 35th Street, Tacoma, Washington. Groundwater monitoring is performed because petroleum-related contamination in soil has been identified in a portion of the facility, referred to as the "Boiler Room Site," which was the subject of a 2011 Remedial Investigation/Feasibility Study (2011 RI/FS) (PGG 2011). The Boiler Room Site (Site) contaminants of concern were not detected in the 2021 Q3 groundwater samples. Groundwater concentrations of site contaminants of concern have not exceeded cleanup levels since the 2007 sampling event.

Tacoma – Pierce County Health Department (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 at the Boiler Room Site, TPCHD requires ongoing semi-annual groundwater monitoring to assess the efficacy of remedial actions and to monitor for potential contaminant migration (Marek, undated; received June 13, 2013). The semi-annual monitoring events shall be performed in spring and fall and shall involve sampling from two (2) shallow and deep well pairs generally located upgradient and downgradient of contaminated soil (Marek, undated; received June 13, 2013). 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 semi-annual monitoring program required by TPCHD is in addition to, and does not alter, the long-term groundwater monitoring program (PGG 2012) required by the *Soil Containment and Natural Source Zone Depletion* remedy that was authorized by the Washington State Department of Ecology (Ecology) and incorporated into the Environmental

Restrictive Covenant and No Further Action (Ecology 2013). The Ecology long-term groundwater monitoring events are performed every 18 months. The most recent long-term monitoring event was performed in September 2020 (2020 Q3) and the next event will be March 2022 (2022 Q1).

Analytical results for groundwater samples collected in 2021 Q3 indicate that the preferred remedial alternative identified in the 2011 RI/FS is effective; the petroleum contamination in soil is not resulting in a dissolved plume with concentrations of site contaminants of concern 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 the former Birds Eye Foods facility, for specific application to the project site. No other warranty, express or implied, is made.

2021 Q3 SEMI-ANNUAL GROUNDWATER SAMPLING SUMMARY

The 2021 Q3 groundwater sampling event was performed in compliance with TPCHD requirements (Marek, undated; received June 13, 2013) and the Semi-Annual Groundwater Monitoring Plan (PGG 2013). Groundwater samples were collected from the Boiler Room Site semi-annual well network on September 28, 2021 by representatives of PGG. 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.

CHEMICALS OF CONCERN AND SITE CLEANUP LEVELS

Groundwater samples were received by Analytical Resources, Inc. (ARI), a Washington State certified laboratory, on September 28, 2021. 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 (NWTPH-Dx) with silica gel cleanup.

- BTEX Compounds – Benzene, Toluene, Ethylbenzene, and Xylenes (EPA Method 8260D).
- PAHs – Polynuclear Aromatic Hydrocarbons (EPA Method 8270E with selected ion monitoring modification to achieve required reporting limits).

As described in the 2011 RI/FS (PGG 2011) and Semi-Annual Groundwater Monitoring Plan (PGG 2013), standard MTCA (Ecology 2007) 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 meet 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.

ANALYTICAL RESULTS

The 2021 Q3 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. The analytical reporting limits were less than corresponding Site cleanup levels.

The 2021 Q3 groundwater analytical results indicate that the preferred remedial alternative identified in the 2011 RI/FS is effective; the petroleum contamination in soil is not resulting in a dissolved plume with concentrations exceeding MTCA Method A cleanup levels.

Quality assurance/quality control (QA/QC) data associated with the Boiler Room Site 2021 Q3 groundwater samples were reviewed by PGG. All requested analyses were performed, and the QA/QC assessments indicated acceptable results with the following notations:

- Laboratory Control Samples (LCS) are types of internal laboratory QA/QC samples to assess laboratory performance. LCS samples are prepared in the laboratory by adding target analytes to a purified sample material, like deionized water. Recovering the target analytes from the LCS assesses whether the analytical procedure is in control and evaluates the lab's capability to report unbiased measurements. The PAH compounds benzo(g,h,i)perylene and dibenz(a,h)anthracene were recovered above control limits from the LCS. In accordance with the analytical method, no re-extraction or re-analysis was required based on the LCS recoveries of these parameters (Bottom 2021) and the data are considered acceptable for purposes of the monitoring program without qualification.
- Matrix Spikes (MS) and Matrix Spike Duplicates (MSD) are also 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 2021 Q3 sampling event, additional volume for MS/MSD analysis was col-

lected from MW-12D. PAH recoveries of benzo(g,h,i)perylene, dibenz(a,h)anthracene, and indeno(1,2,3)pyrene were above control limits in the MSD. The relative percent differences (RPDs) were also high for PAH compounds 2-mtheylnaphthalene, 1-methylnaphthalene, acenaphthylene, acenaphthene, dibenzofuran, and fluorene. Since MS/MSD recovery limits are advisory only (Bottem 2021) and PAHs were not detected in the 2021 Q3 samples, no corrective actions were required, and the data are considered acceptable for purposes of the monitoring program without qualification.

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 analytical suite to evaluate analytical precision. No Site chemicals of concern were detected in the 2021 Q3 MW-12S sample or the field duplicate MW-22S.

CLOSING

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

Sincerely,
Pacific Groundwater Group

Inger Jackson
Senior Hydrogeologist

2021Q3_BEFSummaryReport_Final

Cc: René Rimelspach, Conagra Brands

Panjini Balaraju, Washington State Department of Ecology Southwest Regional Office

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, 2021 Q3

Figure 1. Boiler Room Site Semi-Annual Monitoring Well Network

Appendix A. ARI Lab Report 21I0412

REFERENCES

Bottem, K. 2021. Email from Kelly Bottem, Analytical Resources, LLC, to Inger Jackson, Pacific Groundwater Group. Re: 2110412 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 report 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.

Pacific Groundwater Group, 2019. Birds Eye Foods Boiler Room Site Summary Report for 2019 Q3 Semi-Annual Groundwater Monitoring Event. Consultant's report prepared for Conagra Brands. December 18, 2019.

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

Washington State Department of Ecology. 2013. Re: No Further Action at the following Site: Birds Eye Foods 3303 S 35th Street, Tacoma WA 98409-4701 Facility/Site No. 1328, Cleanup Site ID No.: 5012, VCP Project No.: SW1187. Letter from T. Middleton, Department of Ecology SWRO Toxics Cleanup Program to S. Fehseke, Pinnacle Foods.

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, NAVD 88	247.67	247.64	248.24	248.19
Measuring Point Elevation	feet, NAVD 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, 2021 Q3

CONSTITUENT	UNITS	Site Cleanup Levels*	MW-9S	MW-9D	MW-12S	MW-12D
Field Parameters						
Depth to Water	feet		20.38	20.57	21.16	21.28
pH, Field	std. units		6.9	6.93	7.19	7.55
Specific Conductance, Field	umhos/cm		300.5	375	665.9	376.4
Temperature (C)	C		14.8	14.3	15.5	15.6
Turbidity, Field	NTU		2.34	4.31	10.4	7.26
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

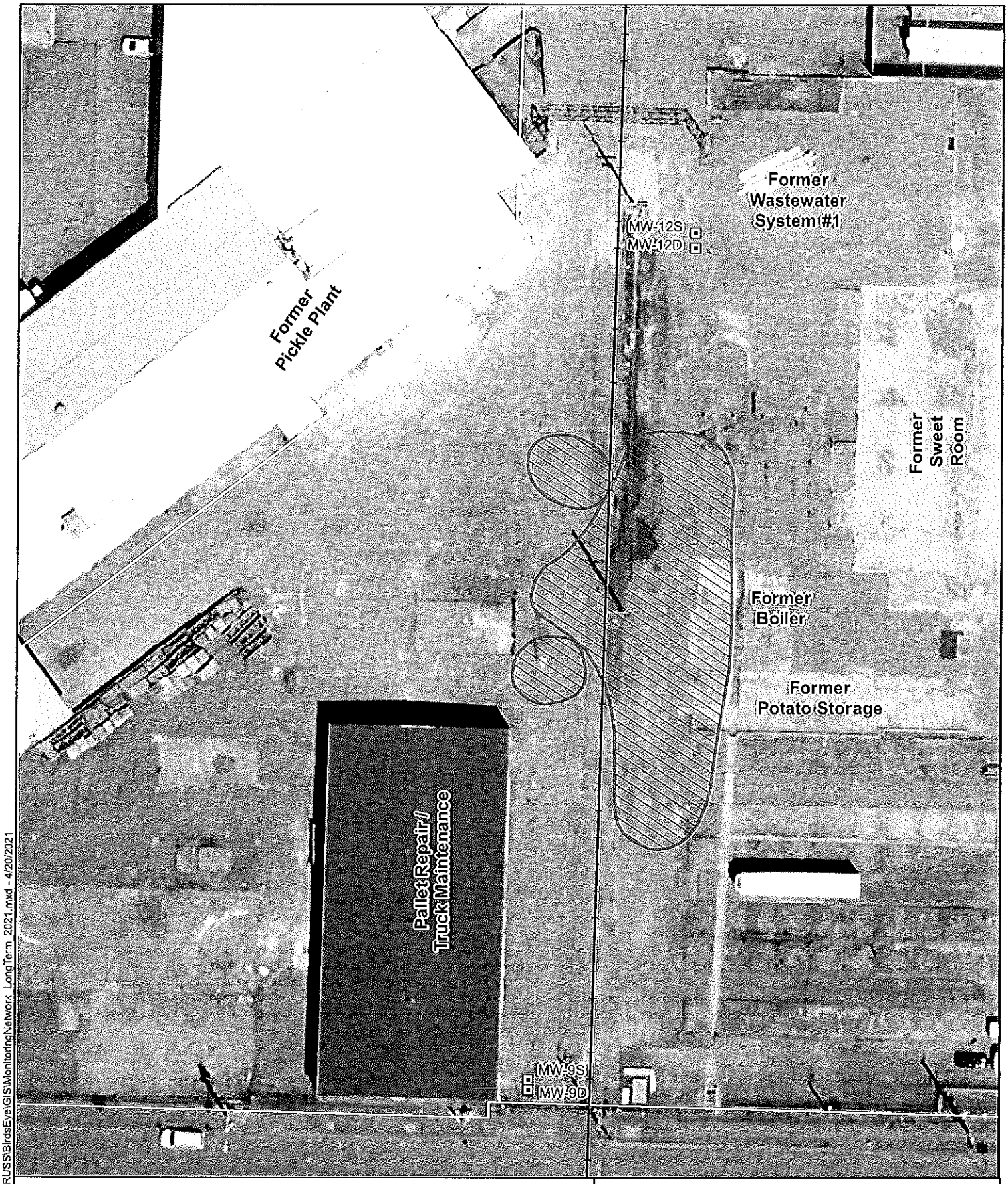
**Cleanup Levels based on MTCA Method A, consistent with Birds Eye Foods Tacoma, WA 2011 Remedial Investigation/Feasibility Study*

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\BirdsEyeGIS\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

PgG

Analytical Resources, Incorporated
Analytical Chemists and Consultants

18 October 2021

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

RE: Birds Eye

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)
2110412	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, Inc.

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.

Kelly Bottem, Client Services Manager

ACCREDITED IN ACCORDANCE WITH nelac
Cert# 100006-012

Chain of Custody Record & Laboratory Analysis Request

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

ARI Assigned Number: 21J0412
Turn-around Requested: Standard
ARI Client Company: PGG a division of MM
Phone: 206 329 0138
Client Contact: Inger Jackson
Client Project Name: Bird's Eye
Client Project #: 518300040
Samplers: NKM / IRJ

Page: 1 of 1
Date: 9/28/21
Ice Present? Yes
No. of Coolers: 2
Cooler Temps: 5.2 5.5

Sample ID	Date	Time	Matrix	No. Containers	BTEX + Gx	NWTPH-Dx w/ silica gel	PAH SIMS						Notes/Comments
MW-9D	9/28/21	1345	GW	9	X	X	X						
MW-9S	|	1400	|	9	X	X	X						
MW-12S	|	1000	|	9	X	X	X						
MW-22S	|	1020	|	9	X	X	X						
MW-12D + MS/MSD	|	1045	|	~~9~~ 27	X	X	X						~~+MS/MSD~~
Trip Blank				2	X								

Comments/Special Instructions: EDD in "PGG" format & in EIM format

	Relinquished by:	Received by:	Relinquished by:	Received by:
(Signature)	[signature]	[signature]		
Printed Name:	Inger Jackson	Jacob Shafer		
Company:	Pacific GW Group	ARI		
Date & Time:	9/28/21 1547	09/28/2021 1547		

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, Incorporated
Analytical Chemists and Consultants

Analytical Report

Pacific Groundwater Group	Project: Birds Eye	
2377 Eastlake Ave. E. Suite 200	Project Number: Birds Eye	**Reported:**
Seattle WA, 98102	Project Manager: Inger Jackson	18-Oct-2021 17:11

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-9D	21I0412-01	Water	28-Sep-2021 13:45	28-Sep-2021 15:47
MW-9S	21I0412-02	Water	28-Sep-2021 14:00	28-Sep-2021 15:47
MW-12S	21I0412-03	Water	28-Sep-2021 10:00	28-Sep-2021 15:47
MW-22S	21I0412-04	Water	28-Sep-2021 10:20	28-Sep-2021 15:47
MW-12D	21I0412-05	Water	28-Sep-2021 10:45	28-Sep-2021 15:47
Trip Blank	21I0412-06	Water	28-Sep-2021 10:00	28-Sep-2021 15:47

Pacific Groundwater Group	Project: Birds Eye	
2377 Eastlake Ave. E. Suite 200	Project Number: Birds Eye	Reported:
Seattle WA, 98102	Project Manager: Inger Jackson	18-Oct-2021 17:11

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.

Initial and continuing calibrations were within method requirements.

Internal standard areas were within limits.

Pacific Groundwater Group	Project: Birds Eye	
2377 Eastlake Ave. E. Suite 200	Project Number: Birds Eye	Reported:
Seattle WA, 98102	Project Manager: Inger Jackson	18-Oct-2021 17:11

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 with the exception of analytes flagged on the associated forms.

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 (MS) percent recoveries and the duplicate (DUP) relative percent difference (RPD) were within advisory control limits.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Printed: 9/28/2021 4:30:36PM

WORK ORDER

21I0412

Samples will be discarded 90 days after submission of a final report unless other instructions are received.

Client: Pacific Groundwater Group **Project Manager:** Kelly Bottem

Project: Birds Eye **Project Number:** Birds Eye

Preservation Confirmation

Container ID	Container Type	pH
21I0412-01 A	Glass NM, Amber, 500 mL	
21I0412-01 B	Glass NM, Amber, 500 mL	
21I0412-01 C	Glass NM, Amber, 500 mL	
21I0412-01 D	Glass NM, Amber, 500 mL	
21I0412-01 E	VOA Vial, Clear, 40 mL, HCL	
21I0412-01 F	VOA Vial, Clear, 40 mL, HCL	
21I0412-01 G	VOA Vial, Clear, 40 mL, HCL	
21I0412-01 H	VOA Vial, Clear, 40 mL, HCL	
21I0412-01 I	VOA Vial, Clear, 40 mL, HCL	
21I0412-02 A	Glass NM, Amber, 500 mL	
21I0412-02 B	Glass NM, Amber, 500 mL	
21I0412-02 C	Glass NM, Amber, 500 mL	
21I0412-02 D	Glass NM, Amber, 500 mL	
21I0412-02 E	VOA Vial, Clear, 40 mL, HCL	
21I0412-02 F	VOA Vial, Clear, 40 mL, HCL	
21I0412-02 G	VOA Vial, Clear, 40 mL, HCL	
21I0412-02 H	VOA Vial, Clear, 40 mL, HCL	
21I0412-02 I	VOA Vial, Clear, 40 mL, HCL	
21I0412-03 A	Glass NM, Amber, 500 mL	
21I0412-03 B	Glass NM, Amber, 500 mL	
21I0412-03 C	Glass NM, Amber, 500 mL	
21I0412-03 D	Glass NM, Amber, 500 mL	
21I0412-03 E	VOA Vial, Clear, 40 mL, HCL	Bubble
21I0412-03 F	VOA Vial, Clear, 40 mL, HCL	Bubble
21I0412-03 G	VOA Vial, Clear, 40 mL, HCL	Bubble
21I0412-03 H	VOA Vial, Clear, 40 mL, HCL	
21I0412-03 I	VOA Vial, Clear, 40 mL, HCL	
21I0412-04 A	Glass NM, Amber, 500 mL	
21I0412-04 B	Glass NM, Amber, 500 mL	
21I0412-04 C	Glass NM, Amber, 500 mL	
21I0412-04 D	Glass NM, Amber, 500 mL	
21I0412-04 E	VOA Vial, Clear, 40 mL, HCL	
21I0412-04 F	VOA Vial, Clear, 40 mL, HCL	
21I0412-04 G	VOA Vial, Clear, 40 mL, HCL	

Reviewed By Date

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Printed: 9/28/2021 4:30:36PM

WORK ORDER

2110412

Samples will be discarded 90 days after submission of a final report unless other instructions are received.

Client: Pacific Groundwater Group **Project Manager:** Kelly Bottem

Project: Birds Eye **Project Number:** Birds Eye

2110412-04 H	VOA Vial, Clear, 40 mL, HCL
2110412-04 I	VOA Vial, Clear, 40 mL, HCL
2110412-05 A	Glass NM, Amber, 500 mL
2110412-05 AA	VOA Vial, Clear, 40 mL, HCL
2110412-05 B	Glass NM, Amber, 500 mL
2110412-05 C	Glass NM, Amber, 500 mL
2110412-05 D	Glass NM, Amber, 500 mL
2110412-05 E	Glass NM, Amber, 500 mL
2110412-05 F	Glass NM, Amber, 500 mL
2110412-05 G	Glass NM, Amber, 500 mL
2110412-05 H	Glass NM, Amber, 500 mL
2110412-05 I	Glass NM, Amber, 500 mL
2110412-05 J	Glass NM, Amber, 500 mL
2110412-05 K	Glass NM, Amber, 500 mL
2110412-05 L	Glass NM, Amber, 500 mL
2110412-05 M	VOA Vial, Clear, 40 mL, HCL
2110412-05 N	VOA Vial, Clear, 40 mL, HCL
2110412-05 O	VOA Vial, Clear, 40 mL, HCL
2110412-05 P	VOA Vial, Clear, 40 mL, HCL
2110412-05 Q	VOA Vial, Clear, 40 mL, HCL
2110412-05 R	VOA Vial, Clear, 40 mL, HCL
2110412-05 S	VOA Vial, Clear, 40 mL, HCL
2110412-05 T	VOA Vial, Clear, 40 mL, HCL
2110412-05 U	VOA Vial, Clear, 40 mL, HCL
2110412-05 V	VOA Vial, Clear, 40 mL, HCL
2110412-05 W	VOA Vial, Clear, 40 mL, HCL
2110412-05 X	VOA Vial, Clear, 40 mL, HCL
2110412-05 Y	VOA Vial, Clear, 40 mL, HCL
2110412-05 Z	VOA Vial, Clear, 40 mL, HCL
2110412-06 A	VOA Vial, Clear, 40 mL, HCL
2110412-06 B	VOA Vial, Clear, 40 mL, HCL

Preservation Confirmed By

09/28/2021
Date

Reviewed By

Date

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PLC Project Name: Bird's Eye

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

Assigned ARI Job No: 21J0412 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 1547 S12 S13 ____ ____ ____ ____

If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: D00 2565

Cooler Accepted by: TS Date: 09/28/2021 Time: 1547

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?	JSw	(YES)	NO
Date VOC Trip Blank was made at ARI...	NA	09/24/2021	

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

Samples Logged by: JSw Date: 09/28/2021 Time: 1624 Labels checked by: JSw

*** 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:

vials w/air bubbles, marked on presentation sheet, lab to determine sizes.

By: JSw Date: 09/28/2021

Pacific Groundwater Group	Project: Birds Eye	
2377 Eastlake Ave. E. Suite 200	Project Number: Birds Eye	**Reported:**
Seattle WA, 98102	Project Manager: Inger Jackson	18-Oct-2021 17:11

MW-9D

21I0412-01 (Water)

Volatile Organic Compounds

Method: EPA 8260D — Sampled: 09/28/2021 13:45

Instrument: NT2 Analyst: PKC — Analyzed: 10/04/2021 13:53

Sample Preparation: Preparation Method: EPA 5030C (Purge and Trap) — Extract ID: 21I0412-01 G

Preparation Batch: BJJ0045 — Sample Size: 10 mL

Prepared: 10/04/2021 — 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 %*	*116*	*%*	
Surrogate: Toluene-d8			*80-120 %*	*96.6*	*%*	
Surrogate: 4-Bromofluorobenzene			*80-120 %*	*89.5*	*%*	
Surrogate: 1,2-Dichlorobenzene-d4			*80-120 %*	*104*	*%*	

Pacific Groundwater Group	Project: Birds Eye	
2377 Eastlake Ave. E. Suite 200	Project Number: Birds Eye	**Reported:**
Seattle WA, 98102	Project Manager: Inger Jackson	18-Oct-2021 17:11

MW-9D

21I0412-01 (Water)

Volatile Organic Compounds

Method: NWTPHg — Sampled: 09/28/2021 13:45
Instrument: NT2 Analyst: PKC — Analyzed: 10/04/2021 13:53

Sample Preparation: Preparation Method: EPA 5030C (Purge and Trap) — Extract ID: 21I0412-01 G
Preparation Batch: BJJ0045 — Sample Size: 10 mL
Prepared: 10/04/2021 — 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 %*	*96.6*	*%*	
Surrogate: 4-Bromofluorobenzene			*80-120 %*	*89.5*	*%*	

Pacific Groundwater Group	Project: Birds Eye	
2377 Eastlake Ave. E. Suite 200	Project Number: Birds Eye	Reported:
Seattle WA, 98102	Project Manager: Inger Jackson	18-Oct-2021 17:11

MW-9D

21I0412-01 (Water)

Semivolatile Organic Compounds - SIM

Method: EPA 8270E-SIM — Sampled: 09/28/2021 13:45
Instrument: NT12 Analyst: JZ — Analyzed: 10/16/2021 16:27

Sample Preparation: Preparation Method: EPA 3520C (Liq Liq) — Extract ID: 21I0412-01 B 01
Preparation Batch: BJJ0090 — Sample Size: 500 mL
Prepared: 10/05/2021 — 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 %*	*59.5*	*%*	
Surrogate: Dibenzo[a,h]anthracene-d14			*10-125 %*	*86.5*	*%*	

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MW-9D

21I0412-01 (Water)

Petroleum Hydrocarbons

Method: NWTPH-Dx — Sampled: 09/28/2021 13:45
Instrument: FID4 Analyst: TWC — Analyzed: 10/11/2021 18:49

Sample Preparation:	Preparation Method: EPA 3510C SepF		Extract ID: 21I0412-01 A 01
	Preparation Batch: BJI0846	Sample Size: 500 mL	
	Prepared: 10/05/2021	Final Volume: 1 mL	
Sample Cleanup:	Cleanup Method: Silica Gel		Extract ID: 21I0412-01 A 01
	Cleanup Batch: CJJ0063	Initial Volume: 1 mL	
	Cleaned: 10-Oct-2021	Final Volume: 1 mL	
Sample Cleanup:	Cleanup Method: Sulfuric Acid		Extract ID:21I0412-01 A 01
	Cleanup Batch: CJJ0064	Initial Volume: 1 uL	
	Cleaned: 10-Oct-2021	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 %*	*112*	%	

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Analytical Report

Pacific Groundwater Group	Project: Birds Eye	
2377 Eastlake Ave. E. Suite 200	Project Number: Birds Eye	**Reported:**
Seattle WA, 98102	Project Manager: Inger Jackson	18-Oct-2021 17:11

MW-9S

21I0412-02 (Water)

Volatile Organic Compounds

Method: EPA 8260D — Sampled: 09/28/2021 14:00
Instrument: NT2 Analyst: PKC — Analyzed: 10/04/2021 14:14

Sample Preparation: Preparation Method: EPA 5030C (Purge and Trap) — Extract ID: 21I0412-02 G
Preparation Batch: BJJ0045 — Sample Size: 10 mL
Prepared: 10/04/2021 — 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 %*	*115*	*%*	
Surrogate: Toluene-d8			*80-120 %*	*97.8*	*%*	
Surrogate: 4-Bromofluorobenzene			*80-120 %*	*85.5*	*%*	
Surrogate: 1,2-Dichlorobenzene-d4			*80-120 %*	*103*	*%*	

Pacific Groundwater Group	Project: Birds Eye	
2377 Eastlake Ave. E. Suite 200	Project Number: Birds Eye	**Reported:**
Seattle WA, 98102	Project Manager: Inger Jackson	18-Oct-2021 17:11

MW-9S

21I0412-02 (Water)

Volatile Organic Compounds

Method: NWTPHg — Sampled: 09/28/2021 14:00
Instrument: NT2 Analyst: PKC — Analyzed: 10/04/2021 14:14

Sample Preparation: Preparation Method: EPA 5030C (Purge and Trap) — Extract ID: 21I0412-02 G
Preparation Batch: BJJ0045 — Sample Size: 10 mL
Prepared: 10/04/2021 — 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 %*	*97.8*	*%*	
Surrogate: 4-Bromofluorobenzene			*80-120 %*	*85.5*	*%*	

Pacific Groundwater Group	Project: Birds Eye	
2377 Eastlake Ave. E. Suite 200	Project Number: Birds Eye	**Reported:**
Seattle WA, 98102	Project Manager: Inger Jackson	18-Oct-2021 17:11

MW-9S

21I0412-02 (Water)

Semivolatile Organic Compounds - SIM

Method: EPA 8270E-SIM — Sampled: 09/28/2021 14:00
Instrument: NT12 Analyst: JZ — Analyzed: 10/16/2021 16:54

Sample Preparation: Preparation Method: EPA 3520C (Liq Liq) — Extract ID: 21I0412-02 B 01
Preparation Batch: BJJ0090 — Sample Size: 500 mL
Prepared: 10/05/2021 — 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 %*	*65.3*	*%*	
Surrogate: Dibenzo[a,h]anthracene-d14			*10-125 %*	*115*	*%*	

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Analytical Report

Pacific Groundwater Group	Project: Birds Eye	
2377 Eastlake Ave. E. Suite 200	Project Number: Birds Eye	**Reported:**
Seattle WA, 98102	Project Manager: Inger Jackson	18-Oct-2021 17:11

MW-9S

21I0412-02 (Water)

Petroleum Hydrocarbons

Method: NWTPH-Dx — Sampled: 09/28/2021 14:00
Instrument: FID4 Analyst: TWC — Analyzed: 10/11/2021 19:09

Sample Preparation:	Preparation Method: EPA 3510C SepF		Extract ID: 21I0412-02 A 01
	Preparation Batch: BJI0846	Sample Size: 500 mL	
	Prepared: 10/05/2021	Final Volume: 1 mL	
Sample Cleanup:	Cleanup Method: Silica Gel		Extract ID: 21I0412-02 A 01
	Cleanup Batch: CJJ0063	Initial Volume: 1 mL	
	Cleaned: 10-Oct-2021	Final Volume: 1 mL	
Sample Cleanup:	Cleanup Method: Sulfuric Acid		Extract ID:21I0412-02 A 01
	Cleanup Batch: CJJ0064	Initial Volume: 1 uL	
	Cleaned: 10-Oct-2021	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 %*	*113*	*%*	

Pacific Groundwater Group	Project: Birds Eye	
2377 Eastlake Ave. E. Suite 200	Project Number: Birds Eye	**Reported:**
Seattle WA, 98102	Project Manager: Inger Jackson	18-Oct-2021 17:11

MW-12S

21I0412-03 (Water)

Volatile Organic Compounds

Method: EPA 8260D — Sampled: 09/28/2021 10:00
Instrument: NT2 Analyst: PKC — Analyzed: 10/04/2021 14:35

Sample Preparation: Preparation Method: EPA 5030C (Purge and Trap) — Extract ID: 21I0412-03 I
Preparation Batch: BJJ0045 — Sample Size: 10 mL
Prepared: 10/04/2021 — 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 %*	*116*	%	
Surrogate: Toluene-d8			*80-120 %*	*97.4*	%	
Surrogate: 4-Bromofluorobenzene			*80-120 %*	*84.4*	%	
Surrogate: 1,2-Dichlorobenzene-d4			*80-120 %*	*103*	%	

Pacific Groundwater Group	Project: Birds Eye	
2377 Eastlake Ave. E. Suite 200	Project Number: Birds Eye	**Reported:**
Seattle WA, 98102	Project Manager: Inger Jackson	18-Oct-2021 17:11

MW-12S

21I0412-03 (Water)

Volatile Organic Compounds

Method: NWTPHg — Sampled: 09/28/2021 10:00
Instrument: NT2 Analyst: PKC — Analyzed: 10/04/2021 14:35

Sample Preparation: Preparation Method: EPA 5030C (Purge and Trap) — Extract ID: 21I0412-03 I
Preparation Batch: BJJ0045 — Sample Size: 10 mL
Prepared: 10/04/2021 — 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 %*	*97.4*	*%*	
Surrogate: 4-Bromofluorobenzene			*80-120 %*	*84.4*	*%*	

Pacific Groundwater Group	Project: Birds Eye	
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Seattle WA, 98102	Project Manager: Inger Jackson	18-Oct-2021 17:11

MW-12S

21I0412-03 (Water)

Semivolatile Organic Compounds - SIM

Method: EPA 8270E-SIM — Sampled: 09/28/2021 10:00
Instrument: NT12 Analyst: JZ — Analyzed: 10/16/2021 17:22

Sample Preparation: Preparation Method: EPA 3520C (Liq Liq) — Extract ID: 21I0412-03 B 01
Preparation Batch: BJJ0090 — Sample Size: 500 mL
Prepared: 10/05/2021 — 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 %*	*62.7*	*%*	
Surrogate: Dibenzo[a,h]anthracene-d14			*10-125 %*	*102*	*%*	

Pacific Groundwater Group	Project: Birds Eye	
2377 Eastlake Ave. E. Suite 200	Project Number: Birds Eye	**Reported:**
Seattle WA, 98102	Project Manager: Inger Jackson	18-Oct-2021 17:11

MW-12S

21I0412-03 (Water)

Petroleum Hydrocarbons

Method: NWTPH-Dx — Sampled: 09/28/2021 10:00
Instrument: FID4 Analyst: TWC — Analyzed: 10/11/2021 19:29

Sample Preparation:	Preparation Method: EPA 3510C SepF		Extract ID: 21I0412-03 A 01
	Preparation Batch: BJI0846	Sample Size: 500 mL	
	Prepared: 10/05/2021	Final Volume: 1 mL	
Sample Cleanup:	Cleanup Method: Silica Gel		Extract ID: 21I0412-03 A 01
	Cleanup Batch: CJJ0063	Initial Volume: 1 mL	
	Cleaned: 10-Oct-2021	Final Volume: 1 mL	
Sample Cleanup:	Cleanup Method: Sulfuric Acid		Extract ID:21I0412-03 A 01
	Cleanup Batch: CJJ0064	Initial Volume: 1 uL	
	Cleaned: 10-Oct-2021	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 %*	*110*	%	

Pacific Groundwater Group	Project: Birds Eye	
2377 Eastlake Ave. E. Suite 200	Project Number: Birds Eye	**Reported:**
Seattle WA, 98102	Project Manager: Inger Jackson	18-Oct-2021 17:11

MW-22S

21I0412-04 (Water)

Volatile Organic Compounds

Method: EPA 8260D — Sampled: 09/28/2021 10:20
Instrument: NT2 Analyst: PKC — Analyzed: 10/04/2021 14:56

Sample Preparation: Preparation Method: EPA 5030C (Purge and Trap) — Extract ID: 21I0412-04 E
Preparation Batch: BJJ0045 — Sample Size: 10 mL
Prepared: 10/04/2021 — 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 %*	*118*	*%*	
Surrogate: Toluene-d8			*80-120 %*	*96.8*	*%*	
Surrogate: 4-Bromofluorobenzene			*80-120 %*	*85.1*	*%*	
Surrogate: 1,2-Dichlorobenzene-d4			*80-120 %*	*104*	*%*	

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Analytical Report

Pacific Groundwater Group	Project: Birds Eye	
2377 Eastlake Ave. E. Suite 200	Project Number: Birds Eye	**Reported:**
Seattle WA, 98102	Project Manager: Inger Jackson	18-Oct-2021 17:11

MW-22S

21I0412-04 (Water)

Volatile Organic Compounds

Method: NWTPHg — Sampled: 09/28/2021 10:20
Instrument: NT2 Analyst: PKC — Analyzed: 10/04/2021 14:56

Sample Preparation: Preparation Method: EPA 5030C (Purge and Trap) — Extract ID: 21I0412-04 E
Preparation Batch: BJJ0045 — Sample Size: 10 mL
Prepared: 10/04/2021 — 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 %*	*96.8*	*%*	
Surrogate: 4-Bromofluorobenzene			*80-120 %*	*85.1*	*%*	

Pacific Groundwater Group	Project: Birds Eye	
2377 Eastlake Ave. E. Suite 200	Project Number: Birds Eye	**Reported:**
Seattle WA, 98102	Project Manager: Inger Jackson	18-Oct-2021 17:11

MW-22S

21I0412-04 (Water)

Semivolatile Organic Compounds - SIM

Method: EPA 8270E-SIM — Sampled: 09/28/2021 10:20
Instrument: NT12 Analyst: JZ — Analyzed: 10/16/2021 17:50

Sample Preparation: Preparation Method: EPA 3520C (Liq Liq) — Extract ID: 21I0412-04 B 01
Preparation Batch: BJJ0090 — Sample Size: 500 mL
Prepared: 10/05/2021 — 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 %*	*71.2*	*%*	
Surrogate: Dibenzo[a,h]anthracene-d14			*10-125 %*	*110*	*%*	

Pacific Groundwater Group	Project: Birds Eye	
2377 Eastlake Ave. E. Suite 200	Project Number: Birds Eye	**Reported:**
Seattle WA, 98102	Project Manager: Inger Jackson	18-Oct-2021 17:11

MW-22S

21I0412-04 (Water)

Petroleum Hydrocarbons

Method: NWTPH-Dx — Sampled: 09/28/2021 10:20
Instrument: FID4 Analyst: TWC — Analyzed: 10/11/2021 19:49

Sample Preparation:	Preparation Method: EPA 3510C SepF		Extract ID: 21I0412-04 A 01
	Preparation Batch: BJI0846	Sample Size: 500 mL	
	Prepared: 10/05/2021	Final Volume: 1 mL	
Sample Cleanup:	Cleanup Method: Silica Gel		Extract ID: 21I0412-04 A 01
	Cleanup Batch: CJJ0063	Initial Volume: 1 mL	
	Cleaned: 10-Oct-2021	Final Volume: 1 mL	
Sample Cleanup:	Cleanup Method: Sulfuric Acid		Extract ID:21I0412-04 A 01
	Cleanup Batch: CJJ0064	Initial Volume: 1 uL	
	Cleaned: 10-Oct-2021	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 %*	*113*	*%*	

Pacific Groundwater Group	Project: Birds Eye	
2377 Eastlake Ave. E. Suite 200	Project Number: Birds Eye	**Reported:**
Seattle WA, 98102	Project Manager: Inger Jackson	18-Oct-2021 17:11

MW-12D

21I0412-05 (Water)

Volatile Organic Compounds

Method: EPA 8260D — Sampled: 09/28/2021 10:45
Instrument: NT2 Analyst: PKC — Analyzed: 10/04/2021 15:17

Sample Preparation: Preparation Method: EPA 5030C (Purge and Trap) — Extract ID: 21I0412-05 M
Preparation Batch: BJJ0045 — Sample Size: 10 mL
Prepared: 10/04/2021 — 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 %*	*118*	*%*	
Surrogate: Toluene-d8			*80-120 %*	*95.8*	*%*	
Surrogate: 4-Bromofluorobenzene			*80-120 %*	*86.2*	*%*	
Surrogate: 1,2-Dichlorobenzene-d4			*80-120 %*	*104*	*%*	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Analytical Report

Pacific Groundwater Group	Project: Birds Eye	
2377 Eastlake Ave. E. Suite 200	Project Number: Birds Eye	**Reported:**
Seattle WA, 98102	Project Manager: Inger Jackson	18-Oct-2021 17:11

MW-12D

21I0412-05 (Water)

Volatile Organic Compounds

Method: NWTPHg — Sampled: 09/28/2021 10:45

Instrument: NT2 Analyst: PKC — Analyzed: 10/04/2021 15:17

Sample Preparation: Preparation Method: EPA 5030C (Purge and Trap) — Extract ID: 21I0412-05 M

Preparation Batch: BJJ0045 — Sample Size: 10 mL

Prepared: 10/04/2021 — 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 %*	*95.8*	*%*	
Surrogate: 4-Bromofluorobenzene			*80-120 %*	*86.2*	*%*	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Analytical Report

Pacific Groundwater Group	Project: Birds Eye	
2377 Eastlake Ave. E. Suite 200	Project Number: Birds Eye	**Reported:**
Seattle WA, 98102	Project Manager: Inger Jackson	18-Oct-2021 17:11

MW-12D

21I0412-05 (Water)

Semivolatile Organic Compounds - SIM

Method: EPA 8270E-SIM — Sampled: 09/28/2021 10:45
Instrument: NT12 Analyst: JZ — Analyzed: 10/16/2021 18:18

Sample Preparation: Preparation Method: EPA 3520C (Liq Liq) — Extract ID: 21I0412-05 G
Preparation Batch: BJJ0090 — Sample Size: 500 mL
Prepared: 10/05/2021 — 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 %*	*59.8*	*%*	
Surrogate: Dibenzo[a,h]anthracene-d14			*10-125 %*	*101*	*%*	

Pacific Groundwater Group	Project: Birds Eye	
2377 Eastlake Ave. E. Suite 200	Project Number: Birds Eye	**Reported:**
Seattle WA, 98102	Project Manager: Inger Jackson	18-Oct-2021 17:11

MW-12D

21I0412-05 (Water)

Petroleum Hydrocarbons

Method: NWTPH-Dx — Sampled: 09/28/2021 10:45
Instrument: FID4 Analyst: TWC — Analyzed: 10/11/2021 20:09

Sample Preparation:	Preparation Method: EPA 3510C SepF		Extract ID: 21I0412-05 A 01
	Preparation Batch: BJI0846	Sample Size: 500 mL	
	Prepared: 10/05/2021	Final Volume: 1 mL	
Sample Cleanup:	Cleanup Method: Silica Gel		Extract ID: 21I0412-05 A 01
	Cleanup Batch: CJJ0063	Initial Volume: 1 mL	
	Cleaned: 10-Oct-2021	Final Volume: 1 mL	
Sample Cleanup:	Cleanup Method: Sulfuric Acid		Extract ID:21I0412-05 A 01
	Cleanup Batch: CJJ0064	Initial Volume: 1 uL	
	Cleaned: 10-Oct-2021	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 %*	*118*	*%*	

Pacific Groundwater Group	Project: Birds Eye	
2377 Eastlake Ave. E. Suite 200	Project Number: Birds Eye	**Reported:**
Seattle WA, 98102	Project Manager: Inger Jackson	18-Oct-2021 17:11

Trip Blank

21I0412-06 (Water)

Volatile Organic Compounds

Method: EPA 8260D — Sampled: 09/28/2021 10:00
Instrument: NT2 Analyst: PKC — Analyzed: 10/04/2021 11:45

Sample Preparation: Preparation Method: EPA 5030C (Purge and Trap) — Extract ID: 21I0412-06 A
Preparation Batch: BJJ0045 — Sample Size: 10 mL
Prepared: 10/04/2021 — 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 %*	*104*	*%*	
Surrogate: Toluene-d8			*80-120 %*	*97.4*	*%*	
Surrogate: 4-Bromofluorobenzene			*80-120 %*	*91.8*	*%*	
Surrogate: 1,2-Dichlorobenzene-d4			*80-120 %*	*102*	*%*	

Pacific Groundwater Group	Project: Birds Eye	
2377 Eastlake Ave. E. Suite 200	Project Number: Birds Eye	**Reported:**
Seattle WA, 98102	Project Manager: Inger Jackson	18-Oct-2021 17:11

Trip Blank

2110412-06 (Water)

Volatile Organic Compounds

Method: NWTPHg — Sampled: 09/28/2021 10:00
Instrument: NT2 Analyst: PKC — Analyzed: 10/04/2021 11:45

Sample Preparation: Preparation Method: EPA 5030C (Purge and Trap) — Extract ID: 2110412-06 A
Preparation Batch: BJJ0045 — Sample Size: 10 mL
Prepared: 10/04/2021 — 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 %*	*97.4*	*%*	
Surrogate: 4-Bromofluorobenzene			*80-120 %*	*91.8*	*%*	

Pacific Groundwater Group	Project: Birds Eye	
2377 Eastlake Ave. E. Suite 200	Project Number: Birds Eye	**Reported:**
Seattle WA, 98102	Project Manager: Inger Jackson	18-Oct-2021 17:11

Volatile Organic Compounds - Quality Control

Batch BJJ0045 - EPA 5030C (Purge and Trap)

Instrument: NT2 Analyst: PKC

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BJJ0045-BLK1)			Prepared: 04-Oct-2021 Analyzed: 04-Oct-2021 11:09							
Gasoline Range Organics (Tol-Nap)	ND	100	ug/L							U
Surrogate: Toluene-d8	4.90		ug/L	*5.00*		*98.1*	*80-120*			
Surrogate: 4-Bromofluorobenzene	4.52		ug/L	*5.00*		*90.4*	*80-120*			
Blank (BJJ0045-BLK2)			Prepared: 04-Oct-2021 Analyzed: 04-Oct-2021 11:09							
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	5.43		ug/L	*5.00*		*109*	*80-129*			
Surrogate: Toluene-d8	4.90		ug/L	*5.00*		*98.1*	*80-120*			
Surrogate: 4-Bromofluorobenzene	4.52		ug/L	*5.00*		*90.4*	*80-120*			
Surrogate: 1,2-Dichlorobenzene-d4	5.12		ug/L	*5.00*		*102*	*80-120*			
LCS (BJJ0045-BS1)			Prepared: 04-Oct-2021 Analyzed: 04-Oct-2021 09:26							
Gasoline Range Organics (Tol-Nap)	987	100	ug/L	1000		98.7	72-128			
Surrogate: Toluene-d8	5.20		ug/L	*5.00*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	4.97		ug/L	*5.00*		*99.3*	*80-120*			
LCS (BJJ0045-BS2)			Prepared: 04-Oct-2021 Analyzed: 04-Oct-2021 09:47							
Benzene	10.3	0.20	ug/L	10.0		103	80-120			
Toluene	10.2	0.20	ug/L	10.0		102	80-120			
Ethylbenzene	9.83	0.20	ug/L	10.0		98.3	80-120			
m,p-Xylene	20.7	0.40	ug/L	20.0		103	80-121			
o-Xylene	10.6	0.20	ug/L	10.0		106	80-121			
Surrogate: 1,2-Dichloroethane-d4	5.32		ug/L	*5.00*		*106*	*80-129*			
Surrogate: Toluene-d8	5.09		ug/L	*5.00*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	5.00		ug/L	*5.00*		*100*	*80-120*			
Surrogate: 1,2-Dichlorobenzene-d4	5.01		ug/L	*5.00*		*100*	*80-120*			
LCS Dup (BJJ0045-BSD1)			Prepared: 04-Oct-2021 Analyzed: 04-Oct-2021 10:07							
Gasoline Range Organics (Tol-Nap)	928	100	ug/L	1000		92.8	72-128	6.10	30	
Surrogate: Toluene-d8	5.16		ug/L	*5.00*		*103*	*80-120*			

Pacific Groundwater Group	Project: Birds Eye	
2377 Eastlake Ave. E. Suite 200	Project Number: Birds Eye	**Reported:**
Seattle WA, 98102	Project Manager: Inger Jackson	18-Oct-2021 17:11

Volatile Organic Compounds - Quality Control

Batch BJJ0045 - EPA 5030C (Purge and Trap)

Instrument: NT2 Analyst: PKC

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS Dup (BJJ0045-BSD1)				Prepared: 04-Oct-2021 Analyzed: 04-Oct-2021 10:07						
Surrogate: 4-Bromofluorobenzene	4.90		ug/L	*5.00*		*98.0*	*80-120*			
LCS Dup (BJJ0045-BSD2)				Prepared: 04-Oct-2021 Analyzed: 04-Oct-2021 10:28						
Benzene	10.6	0.20	ug/L	10.0		106	80-120	2.87	30	
Toluene	10.5	0.20	ug/L	10.0		105	80-120	3.16	30	
Ethylbenzene	10.3	0.20	ug/L	10.0		103	80-120	4.19	30	
m,p-Xylene	21.1	0.40	ug/L	20.0		106	80-121	2.13	30	
o-Xylene	10.8	0.20	ug/L	10.0		108	80-121	2.28	30	
Surrogate: 1,2-Dichloroethane-d4	5.19		ug/L	*5.00*		*104*	*80-129*			
Surrogate: Toluene-d8	5.16		ug/L	*5.00*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	4.92		ug/L	*5.00*		*98.5*	*80-120*			
Surrogate: 1,2-Dichlorobenzene-d4	5.02		ug/L	*5.00*		*100*	*80-120*			
Matrix Spike (BJJ0045-MS1)	**Source: 21I0412-05**			Prepared: 04-Oct-2021 Analyzed: 04-Oct-2021 19:43						
Benzene	11.0	0.20	ug/L	10.0	ND	110	80-120			
Toluene	11.3	0.20	ug/L	10.0	ND	113	80-120			
Ethylbenzene	10.7	0.20	ug/L	10.0	ND	107	80-120			
m,p-Xylene	22.2	0.40	ug/L	20.0	ND	111	80-121			
o-Xylene	11.3	0.20	ug/L	10.0	ND	113	80-121			
Surrogate: 1,2-Dichloroethane-d4	5.40		ug/L	*5.00*	*5.90*	*108*	*80-129*			
Surrogate: Toluene-d8	5.07		ug/L	*5.00*	*4.79*	*101*	*80-120*			
Surrogate: 4-Bromofluorobenzene	4.91		ug/L	*5.00*	*4.31*	*98.3*	*80-120*			
Surrogate: 1,2-Dichlorobenzene-d4	4.83		ug/L	*5.00*	*5.20*	*96.7*	*80-120*			

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

Matrix Spike (BJJ0045-MS2)	**Source: 21I0412-05**			Prepared: 04-Oct-2021 Analyzed: 04-Oct-2021 20:26						
Gasoline Range Organics (Tol-Nap)	895	100	ug/L	1000	ND	89.5	72-128			
Surrogate: Toluene-d8	5.14		ug/L	*5.00*	*4.79*	*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	4.82		ug/L	*5.00*	*4.31*	*96.4*	*80-120*			

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

Matrix Spike Dup (BJJ0045-MSD1)	**Source: 21I0412-05**			Prepared: 04-Oct-2021 Analyzed: 04-Oct-2021 20:04						
Benzene	11.1	0.20	ug/L	10.0	ND	111	80-120	0.52	30	
Toluene	11.1	0.20	ug/L	10.0	ND	111	80-120	1.98	30	

Pacific Groundwater Group	Project: Birds Eye	
2377 Eastlake Ave. E. Suite 200	Project Number: Birds Eye	**Reported:**
Seattle WA, 98102	Project Manager: Inger Jackson	18-Oct-2021 17:11

Volatile Organic Compounds - Quality Control

Batch BJJ0045 - EPA 5030C (Purge and Trap)

Instrument: NT2 Analyst: PKC

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Matrix Spike Dup (BJJ0045-MSD1)	**Source: 21I0412-05**		Prepared: 04-Oct-2021 Analyzed: 04-Oct-2021 20:04							
Ethylbenzene	10.5	0.20	ug/L	10.0	ND	105	80-120	2.33	30	
m,p-Xylene	22.0	0.40	ug/L	20.0	ND	110	80-121	1.13	30	
o-Xylene	11.1	0.20	ug/L	10.0	ND	111	80-121	0.94	30	
Surrogate: 1,2-Dichloroethane-d4	5.28		ug/L	*5.00*	*5.90*	*106*	*80-129*			
Surrogate: Toluene-d8	5.16		ug/L	*5.00*	*4.79*	*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	4.83		ug/L	*5.00*	*4.31*	*96.6*	*80-120*			
Surrogate: 1,2-Dichlorobenzene-d4	5.06		ug/L	*5.00*	*5.20*	*101*	*80-120*			

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

Matrix Spike Dup (BJJ0045-MSD2)	**Source: 21I0412-05**		Prepared: 04-Oct-2021 Analyzed: 04-Oct-2021 20:47							
Gasoline Range Organics (Tol-Nap)	915	100	ug/L	1000	ND	91.5	72-128	2.14	30	
Surrogate: Toluene-d8	5.13		ug/L	*5.00*	*4.79*	*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	4.96		ug/L	*5.00*	*4.31*	*99.2*	*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: Birds Eye	Reported:
Seattle WA, 98102	Project Manager: Inger Jackson	18-Oct-2021 17:11

Semivolatile Organic Compounds - SIM - Quality Control

Batch BJJ0090 - EPA 3520C (Liq Liq)

Instrument: NT12 Analyst: JZ

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BJJ0090-BLK1)				Prepared: 05-Oct-2021 Analyzed: 16-Oct-2021 15:31						
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	2.12		ug/L	*3.00*		*70.6*	*31-120*			
Surrogate: Dibenzo[a,h]anthracene-d14	3.57		ug/L	*3.00*		*119*	*10-125*			
LCS (BJJ0090-BS1)				Prepared: 05-Oct-2021 Analyzed: 16-Oct-2021 15:59						
Naphthalene	1.53	0.10	ug/L	3.00		51.0	33-120			
2-Methylnaphthalene	1.61	0.10	ug/L	3.00		53.6	29-120			
1-Methylnaphthalene	1.61	0.10	ug/L	3.00		53.8	37-120			
Acenaphthylene	1.66	0.10	ug/L	3.00		55.4	32-120			
Acenaphthene	1.70	0.10	ug/L	3.00		56.6	38-120			
Dibenzofuran	1.90	0.10	ug/L	3.00		63.5	38-120			
Fluorene	2.08	0.10	ug/L	3.00		69.3	41-120			
Phenanthrene	2.20	0.10	ug/L	3.00		73.3	49-120			
Anthracene	2.11	0.10	ug/L	3.00		70.4	39-120			
Fluoranthene	2.59	0.10	ug/L	3.00		86.3	48-120			

Pacific Groundwater Group	Project: Birds Eye	
2377 Eastlake Ave. E. Suite 200	Project Number: Birds Eye	**Reported:**
Seattle WA, 98102	Project Manager: Inger Jackson	18-Oct-2021 17:11

Semivolatile Organic Compounds - SIM - Quality Control

Batch BJJ0090 - EPA 3520C (Liq Liq)

Instrument: NT12 Analyst: JZ

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS (BJJ0090-BS1)				Prepared: 05-Oct-2021 Analyzed: 16-Oct-2021 15:59						
Pyrene	2.38	0.10	ug/L	3.00		79.2	48-120			
Benzo(a)anthracene	2.65	0.10	ug/L	3.00		88.4	37-120			
Chrysene	2.57	0.10	ug/L	3.00		85.5	48-120			
Benzo(b)fluoranthene	3.48	0.10	ug/L	3.00		116	38-128			
Benzo(k)fluoranthene	3.41	0.10	ug/L	3.00		114	36-130			
Benzo(j)fluoranthene	2.22	0.10	ug/L	3.00		74.0	49-120			
Benzofluoranthenes, Total	9.10	0.20	ug/L	9.00		101	46-120			
Benzo(a)pyrene	2.90	0.10	ug/L	3.00		96.7	25-120			
Indeno(1,2,3-cd)pyrene	3.29	0.10	ug/L	3.00		110	32-120			
Dibenzo(a,h)anthracene	3.91	0.10	ug/L	3.00		130	21-120			*
Benzo(g,h,i)perylene	3.94	0.10	ug/L	3.00		131	28-120			*
Surrogate: 2-Methylnaphthalene-d10	1.65		ug/L	*3.00*		*54.9*	*31-120*			
Surrogate: Dibenzo[a,h]anthracene-d14	3.33		ug/L	*3.00*		*111*	*10-125*			
Matrix Spike (BJJ0090-MS1)	**Source: 21I0412-05**			Prepared: 05-Oct-2021 Analyzed: 16-Oct-2021 18:46						
Naphthalene	1.76	0.10	ug/L	3.00	ND	58.8	33-120			
2-Methylnaphthalene	1.85	0.10	ug/L	3.00	ND	61.8	29-120			
1-Methylnaphthalene	1.86	0.10	ug/L	3.00	ND	62.1	37-120			
Acenaphthylene	1.87	0.10	ug/L	3.00	ND	62.4	32-120			
Acenaphthene	1.93	0.10	ug/L	3.00	ND	64.5	38-120			
Dibenzofuran	2.06	0.10	ug/L	3.00	ND	68.6	38-120			
Fluorene	2.20	0.10	ug/L	3.00	ND	73.2	41-120			
Phenanthrene	2.19	0.10	ug/L	3.00	ND	73.0	49-120			
Anthracene	2.08	0.10	ug/L	3.00	ND	69.3	39-120			
Fluoranthene	2.41	0.10	ug/L	3.00	ND	80.2	48-120			
Pyrene	2.31	0.10	ug/L	3.00	ND	77.1	48-120			
Benzo(a)anthracene	2.45	0.10	ug/L	3.00	ND	81.7	37-120			
Chrysene	2.35	0.10	ug/L	3.00	ND	78.3	48-120			
Benzo(b)fluoranthene	2.98	0.10	ug/L	3.00	ND	99.3	38-128			
Benzo(k)fluoranthene	2.99	0.10	ug/L	3.00	ND	99.5	36-130			
Benzo(j)fluoranthene	2.02	0.10	ug/L	3.00	ND	67.2	49-120			
Benzofluoranthenes, Total	7.94	0.20	ug/L	9.00	ND	88.2	46-120			
Benzo(a)pyrene	2.63	0.10	ug/L	3.00	ND	87.6	25-120			
Indeno(1,2,3-cd)pyrene	2.92	0.10	ug/L	3.00	ND	97.3	32-120			
Dibenzo(a,h)anthracene	3.52	0.10	ug/L	3.00	ND	117	21-120			

Pacific Groundwater Group	Project: Birds Eye	
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Seattle WA, 98102	Project Manager: Inger Jackson	18-Oct-2021 17:11

Semivolatile Organic Compounds - SIM - Quality Control

Batch BJJ0090 - EPA 3520C (Liq Liq)

Instrument: NT12 Analyst: JZ

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Matrix Spike (BJJ0090-MS1)	**Source: 21I0412-05**		Prepared: 05-Oct-2021	Analyzed: 16-Oct-2021 18:46						
Benzo(g,h,i)perylene	3.59	0.10	ug/L	3.00	ND	120	28-120			
Surrogate: 2-Methylnaphthalene-d10	1.82		ug/L	*3.00*	*1.79*	*60.5*	*31-120*			
Surrogate: Dibenzo[a,h]anthracene-d14	2.91		ug/L	*3.00*	*3.04*	*97.1*	*10-125*			
Recovery limits for target analytes in MS/MSD QC samples are advisory only.										
Matrix Spike Dup (BJJ0090-MSD1)	**Source: 21I0412-05**		Prepared: 05-Oct-2021	Analyzed: 16-Oct-2021 19:14						
Naphthalene	2.38	0.10	ug/L	3.00	ND	79.5	33-120	30.00	30	
2-Methylnaphthalene	2.57	0.10	ug/L	3.00	ND	85.5	29-120	32.20	30	*
1-Methylnaphthalene	2.57	0.10	ug/L	3.00	ND	85.5	37-120	31.80	30	*
Acenaphthylene	2.63	0.10	ug/L	3.00	ND	87.6	32-120	33.50	30	*
Acenaphthene	2.69	0.10	ug/L	3.00	ND	89.7	38-120	32.70	30	*
Dibenzofuran	2.87	0.10	ug/L	3.00	ND	95.5	38-120	32.90	30	*
Fluorene	2.98	0.10	ug/L	3.00	ND	99.4	41-120	30.30	30	*
Phenanthrene	2.80	0.10	ug/L	3.00	ND	93.4	49-120	24.60	30	
Anthracene	2.69	0.10	ug/L	3.00	ND	89.5	39-120	25.40	30	
Fluoranthene	3.00	0.10	ug/L	3.00	ND	99.8	48-120	21.80	30	
Pyrene	2.83	0.10	ug/L	3.00	ND	94.2	48-120	20.00	30	
Benzo(a)anthracene	3.02	0.10	ug/L	3.00	ND	101	37-120	20.80	30	
Chrysene	2.90	0.10	ug/L	3.00	ND	96.8	48-120	21.10	30	
Benzo(b)fluoranthene	3.84	0.10	ug/L	3.00	ND	128	38-128	25.30	30	
Benzo(k)fluoranthene	3.80	0.10	ug/L	3.00	ND	127	36-130	24.00	30	
Benzo(j)fluoranthene	2.51	0.10	ug/L	3.00	ND	83.8	49-120	21.90	30	
Benzofluoranthenes, Total	10.0	0.20	ug/L	9.00	ND	111	46-120	23.20	30	
Benzo(a)pyrene	3.28	0.10	ug/L	3.00	ND	109	25-120	22.10	30	
Indeno(1,2,3-cd)pyrene	3.68	0.10	ug/L	3.00	ND	123	32-120	22.90	30	*
Dibenzo(a,h)anthracene	4.24	0.10	ug/L	3.00	ND	141	21-120	18.50	30	*
Benzo(g,h,i)perylene	4.51	0.10	ug/L	3.00	ND	150	28-120	22.80	30	*
Surrogate: 2-Methylnaphthalene-d10	2.34		ug/L	*3.00*	*1.79*	*78.0*	*31-120*			
Surrogate: Dibenzo[a,h]anthracene-d14	3.59		ug/L	*3.00*	*3.04*	*120*	*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: Birds Eye	**Reported:**
Seattle WA, 98102	Project Manager: Inger Jackson	18-Oct-2021 17:11

Petroleum Hydrocarbons - Quality Control

Batch BJI0846 - EPA 3510C SepF

Instrument: FID4 Analyst: TWC

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BJI0846-BLK1)			Prepared: 05-Oct-2021 Analyzed: 11-Oct-2021 17:49							
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	0.260		mg/L	*0.225*		*116*	*50-150*			
LCS (BJI0846-BS1)			Prepared: 05-Oct-2021 Analyzed: 11-Oct-2021 18:09							
Diesel Range Organics (C12-C24)	2.49	0.100	mg/L	3.00		82.9	56-120			
Surrogate: o-Terphenyl	0.238		mg/L	*0.225*		*106*	*50-150*			
LCS Dup (BJI0846-BSD1)			Prepared: 05-Oct-2021 Analyzed: 11-Oct-2021 18:29							
Diesel Range Organics (C12-C24)	2.90	0.100	mg/L	3.00		96.8	56-120	15.50	30	
Surrogate: o-Terphenyl	0.266		mg/L	*0.225*		*118*	*50-150*			
Matrix Spike (BJI0846-MS1)	**Source: 21I0412-05**		Prepared: 05-Oct-2021 Analyzed: 11-Oct-2021 20:29							
Diesel Range Organics (C12-C24)	2.84	0.100	mg/L	3.00	ND	94.7	56-120			
Surrogate: o-Terphenyl	0.254		mg/L	*0.225*	*0.265*	*113*	*50-150*			
Matrix Spike Dup (BJI0846-MSD1)	**Source: 21I0412-05**		Prepared: 05-Oct-2021 Analyzed: 11-Oct-2021 20:49							
Diesel Range Organics (C12-C24)	2.90	0.100	mg/L	3.00	ND	96.6	56-120	2.02	30	
Surrogate: o-Terphenyl	0.252		mg/L	*0.225*	*0.265*	*112*	*50-150*			

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

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

Pacific Groundwater Group	Project: Birds Eye	
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Certified Analyses included in this Report

Analyte	Certifications
EPA 8260D in Water	
Chloromethane	DoD-ELAP,ADEC,NELAP,WADOE
Vinyl Chloride	DoD-ELAP,ADEC,NELAP,WADOE
Bromomethane	DoD-ELAP,ADEC,NELAP,WADOE
Chloroethane	DoD-ELAP,ADEC,NELAP,WADOE
Trichlorofluoromethane	DoD-ELAP,ADEC,NELAP,WADOE
Acrolein	DoD-ELAP,NELAP,WADOE
1,1,2-Trichloro-1,2,2-Trifluoroethane	DoD-ELAP,ADEC,NELAP,WADOE
Acetone	DoD-ELAP,ADEC,NELAP,WADOE
1,1-Dichloroethene	DoD-ELAP,ADEC,NELAP,WADOE
Iodomethane	DoD-ELAP,NELAP,WADOE
Methylene Chloride	DoD-ELAP,ADEC,NELAP,WADOE
Acrylonitrile	DoD-ELAP,NELAP,WADOE
Carbon Disulfide	DoD-ELAP,NELAP,WADOE
trans-1,2-Dichloroethene	DoD-ELAP,ADEC,NELAP,WADOE
Vinyl Acetate	DoD-ELAP,NELAP,WADOE
1,1-Dichloroethane	DoD-ELAP,ADEC,NELAP,WADOE
2-Butanone	DoD-ELAP,NELAP,WADOE
2,2-Dichloropropane	DoD-ELAP,ADEC,NELAP,WADOE
cis-1,2-Dichloroethene	DoD-ELAP,ADEC,NELAP,WADOE
Chloroform	DoD-ELAP,ADEC,NELAP,WADOE
Bromochloromethane	DoD-ELAP,ADEC,NELAP,WADOE
1,1,1-Trichloroethane	DoD-ELAP,ADEC,NELAP,WADOE
1,1-Dichloropropene	DoD-ELAP,ADEC,NELAP,WADOE
Carbon tetrachloride	DoD-ELAP,ADEC,NELAP,WADOE
1,2-Dichloroethane	DoD-ELAP,ADEC,NELAP,WADOE
Benzene	DoD-ELAP,ADEC,NELAP,WADOE
Trichloroethene	DoD-ELAP,ADEC,NELAP,WADOE
1,2-Dichloropropane	DoD-ELAP,ADEC,NELAP,WADOE
Bromodichloromethane	DoD-ELAP,ADEC,NELAP,WADOE
Dibromomethane	DoD-ELAP,ADEC,NELAP,WADOE
2-Chloroethyl vinyl ether	DoD-ELAP,ADEC,NELAP,WADOE
4-Methyl-2-Pentanone	DoD-ELAP,NELAP,WADOE
cis-1,3-Dichloropropene	DoD-ELAP,ADEC,NELAP,WADOE
Toluene	DoD-ELAP,ADEC,NELAP,WADOE
trans-1,3-Dichloropropene	DoD-ELAP,ADEC,NELAP,WADOE

Pacific Groundwater Group	Project: Birds Eye	
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2-Hexanone	DoD-ELAP,NELAP,WADOE
1,1,2-Trichloroethane	DoD-ELAP,ADEC,NELAP,WADOE
1,3-Dichloropropane	DoD-ELAP,ADEC,NELAP,WADOE
Tetrachloroethene	DoD-ELAP,ADEC,NELAP,WADOE
Dibromochloromethane	DoD-ELAP,ADEC,NELAP,WADOE
1,2-Dibromoethane	DoD-ELAP,NELAP,WADOE
Chlorobenzene	DoD-ELAP,ADEC,NELAP,WADOE
Ethylbenzene	DoD-ELAP,ADEC,NELAP,WADOE
1,1,1,2-Tetrachloroethane	DoD-ELAP,ADEC,NELAP,WADOE
m,p-Xylene	DoD-ELAP,ADEC,NELAP,WADOE
o-Xylene	DoD-ELAP,ADEC,NELAP,WADOE
Styrene	DoD-ELAP,NELAP,WADOE
Bromoform	DoD-ELAP,NELAP,WADOE
1,1,2,2-Tetrachloroethane	DoD-ELAP,ADEC,NELAP,WADOE
1,2,3-Trichloropropane	DoD-ELAP,ADEC,NELAP,WADOE
trans-1,4-Dichloro 2-Butene	DoD-ELAP,ADEC,NELAP,WADOE
n-Propylbenzene	DoD-ELAP,NELAP,WADOE
Bromobenzene	DoD-ELAP,NELAP,WADOE
Isopropyl Benzene	DoD-ELAP,NELAP,WADOE
2-Chlorotoluene	DoD-ELAP,ADEC,NELAP,WADOE
4-Chlorotoluene	DoD-ELAP,ADEC,NELAP,WADOE
t-Butylbenzene	DoD-ELAP,NELAP,WADOE
1,3,5-Trimethylbenzene	DoD-ELAP,NELAP,WADOE
1,2,4-Trimethylbenzene	DoD-ELAP,NELAP,WADOE
s-Butylbenzene	DoD-ELAP,NELAP,WADOE
4-Isopropyl Toluene	DoD-ELAP,NELAP,WADOE
1,3-Dichlorobenzene	DoD-ELAP,ADEC,NELAP,WADOE
1,4-Dichlorobenzene	DoD-ELAP,ADEC,NELAP,WADOE
n-Butylbenzene	DoD-ELAP,NELAP,WADOE
1,2-Dichlorobenzene	DoD-ELAP,ADEC,NELAP,WADOE
1,2-Dibromo-3-chloropropane	DoD-ELAP,ADEC,NELAP,WADOE
1,2,4-Trichlorobenzene	DoD-ELAP,ADEC,NELAP,WADOE
Hexachloro-1,3-Butadiene	DoD-ELAP,ADEC,NELAP,WADOE
Naphthalene	DoD-ELAP,ADEC,NELAP,WADOE
1,2,3-Trichlorobenzene	DoD-ELAP,ADEC,NELAP,WADOE
Dichlorodifluoromethane	DoD-ELAP,ADEC,NELAP,WADOE
Methyl tert-butyl Ether	DoD-ELAP,ADEC,NELAP,WADOE
n-Hexane	WADOE
2-Pentanone	WADOE

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EPA 8270E-SIM in Water

Naphthalene	DoD-ELAP
2-Methylnaphthalene	DoD-ELAP
1-Methylnaphthalene	DoD-ELAP
2-Chloronaphthalene	DoD-ELAP
Biphenyl	DoD-ELAP
2,6-Dimethylnaphthalene	DoD-ELAP
Acenaphthylene	DoD-ELAP
Acenaphthene	DoD-ELAP
Dibenzofuran	DoD-ELAP
2,3,5-Trimethylnaphthalene	DoD-ELAP
Fluorene	DoD-ELAP
Dibenzothiophene	DoD-ELAP
Phenanthrene	DoD-ELAP
Anthracene	DoD-ELAP
Carbazole	DoD-ELAP
1-Methylphenanthrene	DoD-ELAP
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(e)pyrene	DoD-ELAP
Benzo(a)pyrene	DoD-ELAP
Perylene	DoD-ELAP
Indeno(1,2,3-cd)pyrene	DoD-ELAP
Dibenzo(a,h)anthracene	DoD-ELAP
Benzo(g,h,i)perylene	DoD-ELAP
Benzo(b)thiophene	DoD-ELAP

NWTPH-Dx in Water

Diesel Range Organics (C12-C24)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C10-C25)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (Tol-C18)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C10-C24)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C10-C28)	DoD-ELAP,NELAP,WADOE

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Diesel Range Organics (C12-C22)	DoD-ELAP
Diesel Range Organics (C12-C25)	DoD-ELAP
Motor Oil Range Organics (C24-C38)	DoD-ELAP,NELAP,WADOE
Motor Oil Range Organics (C25-C36)	DoD-ELAP,NELAP,WADOE
Motor Oil Range Organics (C24-C40)	DoD-ELAP,NELAP,WADOE
Residual Range Organics (C23-C32)	DoD-ELAP
Mineral Spirits Range Organics (Tol-C12)	DoD-ELAP,NELAP,WADOE
Mineral Oil Range Organics (C16-C28)	DoD-ELAP,NELAP,WADOE
Kerosene Range Organics (Tol-C18)	DoD-ELAP,NELAP,WADOE
JP8 Range Organics (C8-C18)	DoD-ELAP,NELAP,WADOE
JP5 Range Organics (C10-C16)	DoD-ELAP,NELAP,WADOE
JP4 Range Organics (Tol-C14)	DoD-ELAP,NELAP,WADOE
Jet-A Range Organics (C10-C18)	DoD-ELAP,NELAP,WADOE
Creosote Range Organics (C12-C22)	DoD-ELAP,NELAP,WADOE
Bunker C Range Organics (C10-C38)	DoD-ELAP,NELAP,WADOE
Stoddard Range Organics (C8-C12)	DoD-ELAP,NELAP,WADOE
Transformer Oil Range Organics (C12-C28)	DoD-ELAP,NELAP,WADOE

NWTPHg in Water

Gasoline Range Organics (Tol-Nap)	WADOE,DoD-ELAP
Gasoline Range Organics (2MP-TMB)	WADOE,DoD-ELAP
Gasoline Range Organics (Tol-C12)	WADOE,DoD-ELAP
Gasoline Range Organics (C6-C10)	WADOE,ADEC,DoD-ELAP
Gasoline Range Organics (C5-C12)	WADOE,DoD-ELAP

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2023
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	02/28/2022
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2022
WADOE	WA Dept of Ecology	C558	06/30/2022
WA-DW	Ecology - Drinking Water	C558	06/30/2022

Pacific Groundwater Group	Project: Birds Eye	
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Notes and Definitions

*	Flagged value is not within established control limits.
B	This analyte was detected in the method blank.
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)
J	Estimated concentration value detected below the reporting limit.
Q	Indicates a detected analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20% RSD, <20% drift or minimum RRF)
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.