PACIFIC groundwater GROUP

July 3, 2020

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 2020 Q1 Semi-Annual Groundwater Monitoring Event

Dear Rob:

Pacific Groundwater Group (PGG) is pleased to present this letter report on behalf of our client, Conagra Brands, to summarize semi-annual groundwater monitoring performed in the first quarter 2020 (2020 Q1) at the former Birds Eye Foods facility located at 3303 South 35th Street, Tacoma, Washington. 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).

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 long-term groundwater monitoring events are performed every 18 months. The most recent long-term monitoring

event was performed in March 2019 (2019 Q1) and the next event will be September 2020 (2020 Q3)¹.

Analytical results for groundwater samples collected in 2020 Q1 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.

2020 Q1 SEMI-ANNUAL GROUNDWATER SAMPLING SUMMARY

The 2020 Q1 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 March 20, 2020 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 March 20, 2020. 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.

¹ The 2019 Q3 Summary Report (PGG 2019) erroneously stated that the next long-term groundwater monitoring program required by the *Soil Containment and Natural Source Zone Depletion* remedy was due in March 2020 (2020 Q1) instead of September 2020 Q3.



- BTEX Compounds Benzene, Toluene, Ethylbenzene, and Xylenes (EPA Method 8260).
- PAHs Polynuclear Aromatic Hydrocarbons (EPA Method 8270D 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 2020 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. The analytical reporting limits were less than corresponding Site cleanup levels.

The 2020 Q1 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 2020 Q1 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 and Laboratory Control Sample Duplicates (LCS/LCSD) are types of internal laboratory QA/QC samples. They are analyzed to assess the laboratory performance to successfully recover target analytes from a purified sample material, like deionized water. Recovering the target analytes in the LCS assesses whether the analytical procedure is in control and evaluates the lab's capability to report unbiased measurements. The LCSD is a replicate of the LCS and monitors the accuracy and precision of the analytical process on a purified material. Multiple PAH compounds were recovered below control limits from the LCS and two of those same compounds were recovered below control limits from the LCSD. Since PAHs were not detected in the 2020 Q1 groundwater samples and only two compounds were out of control low in both the LCS and LCSD (Bottom 2020) no corrective actions were required, and the data are considered acceptable for purposes of the monitoring program without qualification.
- Matrix Spikes (MS) and Matrix Spike Duplicates (MSD) are similar to LCS/LCSD except that instead of adding known spikes of the target analytes to *purified media*, they are added by the lab to *field samples*. MS are analyzed to assess the effects of interferences cause by the specific sample matrix. Matrix Spike Duplicates (MSDs)



are replicates of the MS to check for precision and bias of a method for a specific sample matrix. Multiple PAH compounds were recovered below laboratory control limits from the MS and MSD. Since MS/MSD recovery limits are advisory only and PAHs were not detected in the 2020 Q1 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 2020 Q1 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

2020Q1_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, 2020 Q1

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

Appendix A. ARI Lab Report 20C0276

REFERENCES

- Bottem, K. 2020. Email Re: Final report, invoice and EDD 20C0276. Email from Kelly Bottem, ARI, to Inger Jackson, PGG. May 11, 2020.
- 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
		Not	Not		
Unique Well ID (UWID)		available	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		← Sherw	ood High Traff	ic Flush Monu	ment —

^{*} Vertical and Horizontal Datums use the Washington State Reference Network

Table 2. Summary of Groundwater Quality Data, Birds Eye Foods, TPCHD Monitoring Event, 2020 Q1

		Site Cleanup				
CONSTITUENT	UNITS	Levels*	MW-9S	MW-9D	MW-12S	MW-12[
Field Parameters						
Depth to Water	feet		16.71	17.18	17.79	17.94
pH, Field	std. units		6.63	6.81	7.02	7.32
Specific Conductance, Field	umhos/cm		328.2	388.8	777.6	631.5
Temperature (C)	С		14.5	14.9	14.8	15.1
Turbidity, Field	NTU		1.7	1.17	13.7	5.25
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
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



Birds Eye Semi-Annual Monitoring Plan



13 April 2020

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)

20C0276

Associated SDG ID(s)

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.

Al Both

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 itentirety.

Cert# 10000

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number:	Turn-around	Requested:			Page:	1	of			Analytic	cal Resources, Incorporated cal Chemists and Consultants
ARI-Glient Company: 130 10 Company: Client Contact:	er Grou	Phone:	63290	141	Date: 3/20	1/20	Ice Pres	ent? Ye		Tukwila 206-695	outh 134th Place, Suite 100 , WA 98168 5-6200 206-695-6201 (fax)
Inger lacksm					No. of Coolers:	2	Temp	er 9,5	,11.8	www.ar	ilabs.com
Client Project Name:						l	N	Analysis I	Requested		Notes/Comments
Client Project #: \[\int \int \left[\text{CO} \right] - \left[\text{O} \]	Samplers:	sm/N.	Mehr		KHG	-Hc	PAH				
Sample ID	Date	Time	Matrix	No. Containers	8/E)	NW TPH-	SIM PAHS				
MW-125	3/20/20	1055	BW	9	5	2	2				
MW-120 (+MS/MSD)	1	1230		27	15	6	6				
MW-95		1550		9	5	2	2				,90
MW - 9D		1600.		9	5	2	2				
MW-225		1105	V	9	5	2	2				
MW-22S TripBlank					6						
	011	(1	-					
Comments/Special Instructions EDD IN "PGG" and	Relinquished by: (Signature)	n		Received by: (Signature)				Relinquished (Signature)	l by:	Received by: (Signature)	
Comments/Special Instructions EDD in "PGG" and EIM format	Printed Name:	ger lac	ekson	Printed Name:	nny	Dan	9	Printed Nam	e:	Printed Name	9:
	Company:	Ground	water Gr	Company:)	Company:		Company:	
	Date & Time:	120 18		Date & Time: 3-170/		0 18	60,	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 cosigned 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.



Pacific Groundwater GroupProject:Birds Eye2377 Eastlake Ave. E. Suite 200Project Number:Birds EyeReported:Seattle WA, 98102Project Manager:Inger Jackson13-Apr-2020 08:50

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-12S	20C0276-01	Water	20-Mar-2020 10:55	20-Mar-2020 18:00
MW-12D	20C0276-02	Water	20-Mar-2020 12:30	20-Mar-2020 18:00
MW-9S	20C0276-03	Water	20-Mar-2020 15:50	20-Mar-2020 18:00
MW-9D	20C0276-04	Water	20-Mar-2020 16:00	20-Mar-2020 18:00
MW-22S	20C0276-05	Water	20-Mar-2020 16:00	20-Mar-2020 18:00
Trip Blank	20C0276-06	Water	20-Mar-2020 10:55	20-Mar-2020 18:00



Pacific Groundwater Group 2377 Eastlake Ave. E. Suite 200 Seattle WA, 98102 Project: Birds Eye
Project Number: Birds Eye
Project Manager: Inger Jackson

Reported: 13-Apr-2020 08:50

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 LCS/LCSD percent recoveries and RPD were within control limits.

The matrix spike/matrix spike duplicate recoveries and RPD were within limits.

Volatiles - EPA Method SW8260C

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 LCS/LCSD percent recoveries and RPD were within control limits.

The matrix spike/matrix spike duplicate recoveries and RPD were within limits.

Polynuclear Aromatic Hydrocarbons (PAH) - EPA Method SW8270D-SIM

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

Initial and continuing calibrations were within method requirements with the exception of all associated "Q" flagged analytes which are out of control high in the CCAL. All associated samples that contain analyte have been flagged wit a "Q" qualifier.

Internal standard areas were within limits.

Analytical Resources, Inc.





Pacific Groundwater Group Project: Birds Eye 2377 Eastlake Ave. E. Suite 200 Project Number: Birds Eye

2377 Eastlake Ave. E. Suite 200Project Number: Birds EyeReported:Seattle WA, 98102Project Manager: Inger Jackson13-Apr-2020 08:50

The surrogate percent recoveries were within control limits.

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

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

The matrix spike/matrix spike duplicate recoveries and RPD were within limits with the exception of analytes flagged on the associated forms.

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

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 LCS percent recoveries were within control limits.

The matrix spike/matrix spike duplicate recoveries and RPD were within limits.

Printed: 03/21/2020 12:27:28

WORK ORDER

20C0276

Client: Pacific Groundwater Group

Project Manager: Kelly Bottem

Project: Birds Eye

Project Number: Birds Eye

D	C 00	
Preservation	(ontin	mation
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Container ID	Container Type	pH	
20C0276-01 A	Glass NM, Amber, 500 mL	L.	
20C0276-01 B	Glass NM, Amber, 500 mL		
20C0276-01 C	Glass NM, Amber, 500 mL		
20C0276-01 D	Glass NM, Amber, 500 mL		
20C0276-01 E	VOA Vial, Clear, 40 mL, HCL	Bbbb	
20C0276-01 F	VOA Vial, Clear, 40 mL, HCL	Aubble	
20C0276-01 G	VOA Vial, Clear, 40 mL, HCL	Bubble	
20C0276-01 H	VOA Vial, Clear, 40 mL, HCL		
20C0276-01 I	VOA Vial, Clear, 40 mL, HCL		
20C0276-02 A	Glass NM, Amber, 500 mL		
20C0276-02 AA	VOA Vial, Clear, 40 mL, HCL		
20C0276-02 B	Glass NM, Amber, 500 mL		
20C0276-02 C	Glass NM, Amber, 500 mL		
20C0276-02 D	Glass NM, Amber, 500 mL		
20C0276-02 E	Glass NM, Amber, 500 mL		
20C0276-02 F	Glass NM, Amber, 500 mL		
20C0276-02 G	Glass NM, Amber, 500 mL		
20C0276-02 H	Glass NM, Amber, 500 mL		*
20C0276-02 I	Glass NM, Amber, 500 mL		
20C0276-02 J	Glass NM, Amber, 500 mL		
20C0276-02 K	Glass NM, Amber, 500 mL		
20C0276-02 L	Glass NM, Amber, 500 mL		
20C0276-02 M	VOA Vial, Clear, 40 mL, HCL		
20C0276-02 N	VOA Vial, Clear, 40 mL, HCL		
20C0276-02 O	VOA Vial, Clear, 40 mL, HCL		
20C0276-02 P	VOA Vial, Clear, 40 mL, HCL		
20C0276-02 Q	VOA Vial, Clear, 40 mL, HCL		
20C0276-02 R	VOA Vial, Clear, 40 mL, HCL		
20C0276-02 S	VOA Vial, Clear, 40 mL, HCL		
20C0276-02 T	VOA Vial, Clear, 40 mL, HCL		
20C0276-02 U	VOA Vial, Clear, 40 mL, HCL		
20C0276-02 V	VOA Vial, Clear, 40 mL, HCL		
20C0276-02 W	VOA Vial, Clear, 40 mL, HCL		
20C0276-02 X	VOA Vial, Clear, 40 mL, HCL		
20C0276-02 Y	VOA Vial, Clear, 40 mL, HCL		

Reviewed By

Date



WORK ORDER

20C0276

Client: Pacific Gr	oundwater Group	Project Manager: Kelly Bottem
Project: Birds Eye		Project Number: Birds Eye
20C0276-02 Z	VOA Vial, Clear, 40 mL, HCL	
20C0276-03 A	Glass NM, Amber, 500 mL	
20C0276-03 B	Glass NM, Amber, 500 mL	
20C0276-03 C	Glass NM, Amber, 500 mL	
20C0276-03 D	Glass NM, Amber, 500 mL	
20C0276-03 E	VOA Vial, Clear, 40 mL, HCL	
20C0276-03 F	VOA Vial, Clear, 40 mL, HCL	
20C0276-03 G	VOA Vial, Clear, 40 mL, HCL	
20C0276-03 H	VOA Vial, Clear, 40 mL, HCL	
20C0276-03 I	VOA Vial, Clear, 40 mL, HCL	
20C0276-04 A	Glass NM, Amber, 500 mL	
20C0276-04 B	Glass NM, Amber, 500 mL	
20C0276-04 C	Glass NM, Amber, 500 mL	
20C0276-04 D	Glass NM, Amber, 500 mL	
20C0276-04 E	VOA Vial, Clear, 40 mL, HCL	Bebble
20C0276-04 F	VOA Vial, Clear, 40 mL, HCL	
20C0276-04 G	VOA Vial, Clear, 40 mL, HCL	
20C0276-04 H	VOA Vial, Clear, 40 mL, HCL	
20C0276-04 I	VOA Vial, Clear, 40 mL, HCL	
20C0276-05 A	Glass NM, Amber, 500 mL	
20C0276-05 B	Glass NM, Amber, 500 mL	
20C0276-05 C	Glass NM, Amber, 500 mL	
20C0276-05 D	Glass NM, Amber, 500 mL	
20C0276-05 E	VOA Vial, Clear, 40 mL, HCL	Dubble
20C0276-05 F	VOA Vial, Clear, 40 mL, HCL	
20C0276-05 G	VOA Vial, Clear, 40 mL, HCL	
20C0276-05 H	VOA Vial, Clear, 40 mL, HCL	
20C0276-05 I	VOA Vial, Clear, 40 mL, HCL	
20C0276-06 A	VOA Vial, Clear, 40 mL, HCL	
20C0276-06 B	VOA Vial, Clear, 40 mL, HCL	
20C0276-06 C	VOA Vial, Clear, 40 mL, HCL	
20C0276-06 D	VOA Vial, Clear, 40 mL, HCL	
20C0276-06 E	VOA Vial, Clear, 40 mL, HCL	
20C0276-06 F	VOA Vial, Clear, 40 mL, HCL	
313		03/21/2020
Preservation Confirmed	Ву	Date



Cooler Receipt Form

Were intact, properly signed and dated custody seals attached to the outside of the cooler? Were custody papers included with the cooler? Were custody papers properly filled out (ink, signed, etc.) Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) Time \(\frac{1800}{300} \) If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: Doo \$7.0C Complete custody forms and attach all shipping documents	OG C		0	T.,		
Assigned ARI Job No: DCCO 7 6 Tracking No: No Preliminary Examination Phase: Were custody papers included with the cooler? YES NO Were custody papers properly filled out (link, signed, etc.) YES NO Were custody papers properly filled out (link, signed, etc.) YES NO Temperature of Cooler(s) ("C) (recommended 2.0-6.0 °C for chemistry) If cooler temperature is out of compliance fill out form 00070F Temperature is out of compliance fill out form 00070F Complete custody forms and attach all shipping documents Log-In Phase: Was a temperature blank included in the cooler? No What kind of packing material was used? Bubble Wap Wet like Gel Packs Baggies Foam Black Paper Other: Was sufficient ice used (if appropriate)? NA YES NO How were bottles sealed in plastic bags? Individually Grouped (No) Did all bottle labels complete and legible? YES NO Were all bottle labels complete and legible? YES NO Did all bottle labels and fags agree with custody papers? YES NO Were all bottle used correct for the requested analyses? Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES NO Were all VOC vials free of air bubbles? YES Date/Time: Equipment: Split by: "*Notify Project Manager of discrepancies or concerns ** **Notify Project Manager of discrepancies or concerns **		<u> </u>		tye		
Preliminary Examination Phase: 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: \(\frac{1}{3} \) \(\frac{1}{3} \	200	NA)	Delivered by: Fed-Ex UPS Cou	ırier Hand Delivered	Other:	
Were intact, properly signed and dated custody seals attached to the outside of the cooler? Were custody papers included with the cooler? Were custody papers properly filled out (ink, signed, etc.) Were custody papers properly filled out (ink, signed, etc.) Were custody papers properly filled out (ink, signed, etc.) Were custody papers properly filled out (ink, signed, etc.) Were custody papers properly filled out (ink, signed, etc.) Were custody papers properly filled out (ink, signed, etc.) Temp Gun ID#_DOO_\$7.000 Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) Time \(\frac{1}{3} \) Temp Gun ID#_DOO_\$7.000 Temp Gun ID#_DOO_\$7.0	7 looigired 7 littl bob 140.	,03/6	Tracking No:			NA
Were custody papers included with the cooler?	Preliminary Examination Phase:					
Were custody papers properly filled out (ink, signed, etc.)	Were intact, properly signed and d	lated custody seals attached to t	the outside of the cooler?	YES	3	NO
Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) Time \(\subseteq 0 \) If cooler temperature is out of compliance fill out form 00070F Cooler Accepted by: \(\subseteq 0 \) Date: \(3 \ 2.0 \ 7.0 \) Time: \(\subseteq 0 \) Cooler Accepted by: \(\subseteq 0 \) Complete custody forms and attach all shipping documents VES	Were custody papers included with	n the cooler?		YES	5	NO
If cooler temperature is out of compliance fill out form 00070F Cooler Accepted by:	Were custody papers properly fille	d out (ink, signed, etc.)	i	YES	3	NO
If cooler temperature is out of compliance fill out form 00070F Cooler Accepted by:	Temperature of Cooler(s) (°C) (rec	commended 2.0-6.0 °C for chem	nistry)			
Cooler Accepted by:	Time 1800		9.5 11.8			
Complete custody forms and attach all shipping documents Log-In Phase: Was a temperature blank included in the cooler? What kind of packing material was used? Bubble Wap Wet Ive 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 NO Did all bottles arrive in good condition (unbroken)? YES NO Did the number of containers listed on COC match with the number of containers received? YES NO Did all bottle labels complete and legible? 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 YES Date/Time:	If cooler temperature is out of com	pliance fill out form 00070F		Temp Gun ID#: [000 57.0	36
Complete custody forms and attach all shipping documents Log-In Phase: Was a temperature blank included in the cooler?	Cooler Accepted by:	-O	Date: 3/20/20 Time	e: 1800		
Was a temperature blank included in the cooler? What kind of packing material was used? Bubble Whap 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 No Did all bottles arrive in good condition (unbroken)? Were all bottle labels complete and legible? Did all bottle labels and tags agree with custody papers? Were all bottle labels and tags agree with custody papers? Were all bottles used correct for the requested analyses? Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) Was sufficient amount of sample sent in each bottle? Date VOC Trip Blank was made at ARI. Were the sample(s) split by ARI? Date: 03/b1/b0x0 Time: L019 Labels checked by: ISS **Notify Project Manager of discrepancies or concerns**						
What kind of packing material was used? Bubble Whap Wet I be 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 (No) Did all bottles service 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 Was sufficient amount of sample sent in each bottle? YES NO Date VOC Trip Blank was made at ARI YES Date/Time: Equipment: Split by: Samples Logged by: Date: Date: Date: Time: Equipment: Split by: Samples Logged by: Date: Date: Time: Late Labels checked by: The Notify Project Manager of discrepancies or concerns **	Log-In Phase:			Control of the contro		
What kind of packing material was used? Bubble Whap Wet I be 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 (No) Did all bottles service 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 Was sufficient amount of sample sent in each bottle? YES NO Date VOC Trip Blank was made at ARI YES Date/Time: Equipment: Split by: Samples Logged by: Date: Date: Date: Time: Equipment: Split by: Samples Logged by: Date: Date: Time: Late Labels checked by: The Notify Project Manager of discrepancies or concerns **	Mas a temperature blank include	od in the cooler?			VEO	(Va)
Was sufficient ice used (if appropriate)? How were bottles sealed in plastic bags? Did all bottles arrive in good condition (unbroken)? Were all bottle labels complete and legible? Did the number of containers listed on COC match with the number of containers received? Did all bottle labels and tags agree with custody papers? Were all bottles used correct for the requested analyses? Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) Was sufficient amount of sample sent in each bottle? Date: 03 21 2000 Time: 1019 Labels checked by: 1800 Time: 1019 Time: 101			Age programmed to the second of the second s	Plack Paper Other		NO
How were bottles sealed in plastic bags?				\smile	0.0	NO
Did all bottles arrive in good condition (unbroken)? Were all bottle labels complete and legible? Did the number of containers listed on COC match with the number of containers received? Did all bottle labels and tags agree with custody papers? Were all bottles used correct for the requested analyses? Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) Were all VOC vials free of air bubbles? Was sufficient amount of sample sent in each bottle? Date VOC Trip Blank was made at ARI. Were the sample(s) split BYES NO Was purples Logged by: Date: 03/21/2020 Time: 1219 Labels checked by: **Notify Project Manager of discrepancies or concerns **						
Were all bottle labels complete and legible?				marvidually		
Did the number of containers listed on COC match with the number of containers received?		. 1 milytuk viittu 21 milyt (v.5c, milyt primice v.5c) v. ₹2000 4,500 milyt (0.000 0.00 0.00 0.00 0.00 0.00 0.00 0				
Did all bottle labels and tags agree with custody papers? Were all bottles used correct for the requested analyses? Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) Were all VOC vials free of air bubbles? NA YES NO Was sufficient amount of sample sent in each bottle? Date VOC Trip Blank was made at ARI. Were the sample(s) split by ARI? Date: Date/Time:				100		
Were all bottles used correct for the requested analyses? NO Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA Were all VOC vials free of air bubbles? NA Was sufficient amount of sample sent in each bottle? NO Date VOC Trip Blank was made at ARI. NA Were the sample(s) split NA YES VES NO Labels checked by: ISA ** Notify Project Manager of discrepancies or concerns ***	Did all bottle labels and tags agre	ee with custody papers?				
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES NO Was sufficient amount of sample sent in each bottle?	15 15	50 At At				
Was sufficient amount of sample sent in each bottle?	Do any of the analyses (bottles) r	equire preservation? (attach pre	eservation sheet, excluding VOCs)	. NA	MANUFACT.	
Date VOC Trip Blank was made at ARI	Were all VOC vials free of air but	obles?		NA	YES	NO
Were the sample(s) split by ARI? Samples Logged by:	Was sufficient amount of sample	sent in each bottle?			YES	NO
by ARI? Samples Logged by:	80	at ARI		NA		
Samples Logged by:		YES Date/Time:	Equipment:		Split by:	
** Notify Project Manager of discrepancies or concerns **						
	Samples Logged by:		7000 Time: 1219 La	abels checked by: _	JBU	
Sample ID on Bottle Sample ID on COC Sample ID on Bottle Sample ID on COC		** Notify Project Manager	of discrepancies or concerns **			
Sample ID on Bottle Sample ID on COC Sample ID on Bottle Sample ID on COC					NPCK-LINE CHILD	
	Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample I	D on COC	
				-		
				-		
				-		
Additional Notes, Discrepancies, & Resolutions:	Additional Notes Discrepance	os & Bosolutionos				
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vals Tax bebbles maked an pres. Sheet, lab to determine size	lab to de	tomine Size				
By 74 - Date: @ 3/21/2020	71	07/1/201-				



Cooler Temperature Compliance Form

ARI Work Order:	1276	,
Cooler#:	Temperature(°C):	8
Sample ID	, Bottle Count	Bottle Type
Samples received	2)	
alove or 13		
mw-125	4	500ml Ab
MW-120	19	10 Sount Ab 9 HCL vials Sount Ab
mw-dds	4	500mL AG
nw-dds Tr.p Dlunk	6	All cartaines
<u></u>		
Cooler#:	Temperature(°C): ?	
Sample ID	Bottle Count	Bottle Type
H 33w		
MW-125	5	All vials
MW-12D	8	2 SOUNL Ab 6 HCL vials All containes
mw-95 mw-90	9	All containes
MW-9D	9	All containes
mw-225	5	All vials
Cooler#:	Temperature(°C):	
Sample ID	Bottle Count	Bottle Type
	i i	
	Temperature(°C):	
Sample ID	Bottle Count	Bottle Type
	415-52-5	
Completed by:	Doto	3170/20 Time: 1000

Pacific Groundwater Group Project: Birds Eye 2377 Eastlake Ave. E. Suite 200 Project Number: Birds Eye Seattle WA, 98102 Project Manager: Inger Jackson

Reported: 13-Apr-2020 08:50

MW-12S 20C0276-01 (Water)

Volatile Organic Compounds

Method: EPA 8260C Sampled: 03/20/2020 10:55 Instrument: NT2 Analyst: LH Analyzed: 03/26/2020 15:14 Extract ID: 20C0276-01 H

Sample Preparation: Preparation Method: EPA 5030 (Purge and Trap)

Preparation Batch: BIC0561 Sample Size: 10 mL Prepared: 03/26/2020 Final Volume: 10 mL

			Reporting			
Analyte	CAS Number	Dilution	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: Toluene-d8			80-120 %	95.0	%	
Surrogate: 4-Bromofluorobenzene			80-120 %	89.3	%	
Surrogate: 1,2-Dichlorobenzene-d4			80-120 %	105	%	



Pacific Groundwater Group
Project: Birds Eye
2377 Eastlake Ave. E. Suite 200
Project Number: Birds Eye
Seattle WA, 98102
Project Manager: Inger Jackson

Reported: 13-Apr-2020 08:50

MW-12S 20C0276-01 (Water)

Volatile Organic Compounds

 Method: NWTPHg
 Sampled: 03/20/2020 10:55

 Instrument: NT2 Analyst: LH
 Analyzed: 03/26/2020 15:14

Sample Preparation: Preparation Method: EPA 5030 (Purge and Trap) Extract ID: 20C0276-01 H

Preparation Batch: BIC0561 Sample Size: 10 mL Prepared: 03/26/2020 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 %	95.0	%	
Surrogate: 4-Bromofluorobenzene			80-120 %	86.9	%	



Pacific Groundwater GroupProject:Birds Eye2377 Eastlake Ave. E. Suite 200Project Number:Birds EyeSeattle WA, 98102Project Manager:Inger Jackson

Reported: 13-Apr-2020 08:50

MW-12S 20C0276-01 (Water)

Semivolatile Organic Compounds - SIM

 Method: EPA 8270D-SIM
 Sampled: 03/20/2020 10:55

 Instrument: NT8 Analyst: JZ
 Analyzed: 04/01/2020 14:00

Sample Preparation: Preparation Method: EPA 3520C (Liq Liq) Extract ID: 20C0276-01 B 01

Preparation Batch: BIC0579 Sample Size: 500 mL Prepared: 03/26/2020 Final Volume: 0.5 mL

Prepared: 03/26/2020	Final volume: (.5 IIIL				
Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Naphthalene	91-20-3	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
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
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 %	40.1	%	
Surrogate: Dibenzo[a,h]anthracene-d14			10-125 %	86.9	%	

Analytical Resources, Inc.

Pacific Groundwater GroupProject: Birds Eye2377 Eastlake Ave. E. Suite 200Project Number: Birds EyeReported:Seattle WA, 98102Project Manager: Inger Jackson13-Apr-2020 08:50

MW-12S 20C0276-01RE1 (Water)

Petroleum Hydrocarbons

Method: NWTPH-Dx			S	ampled: 03/	20/2020 10:55	
Instrument: FID4 Analy	vst: CTO		Analyzed: 04/03/2020 10			
Sample Preparation:	Preparation Method: EPA 3510C SepF Preparation Batch: BIC0570 Prepared: 03/27/2020	Sample Size: 500 mL Final Volume: 1 mL		Extract	ID: 20C027	6-01RE1 A 01
Sample Cleanup:	Cleanup Method: Silica Gel Cleanup Batch: CID0007 Cleaned: 03-Apr-2020	Initial Volume: 1 mL Final Volume: 1 mL		Extract	ID: 20C027	6-01RE1 A 01
Sample Cleanup:	Cleanup Method: Sulfuric Acid Cleanup Batch: CID0006 Cleaned: 03-Apr-2020	Initial Volume: 1 mL Final Volume: 1 mL		Extract	ID:20C027	6-01RE1 A 01
Analyte		CAS Number Dilution	Reporting Limit	Result	Units	Notes

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 %	78.1	%	

Analytical Resources, Inc.

Pacific Groundwater Group Project: Birds Eye 2377 Eastlake Ave. E. Suite 200 Project Number: Birds Eye Seattle WA, 98102 Project Manager: Inger Jackson

Reported: 13-Apr-2020 08:50

MW-12D 20C0276-02 (Water)

Volatile Organic Compounds

Method: EPA 8260C Sampled: 03/20/2020 12:30 Instrument: NT2 Analyst: LH Analyzed: 03/26/2020 15:35 Extract ID: 20C0276-02 V

Preparation Method: EPA 5030 (Purge and Trap) Sample Preparation:

Preparation Batch: BIC0561 Sample Size: 10 mL Prepared: 03/26/2020 Final Volume: 10 mL

			Reporting			
Analyte	CAS Number	Dilution	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: Toluene-d8			80-120 %	98.4	%	
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
Seattle WA, 98102
Project Manager: Inger Jackson

Reported: 13-Apr-2020 08:50

MW-12D 20C0276-02 (Water)

Volatile Organic Compounds

 Method: NWTPHg
 Sampled: 03/20/2020 12:30

 Instrument: NT2 Analyst: LH
 Analyzed: 03/26/2020 15:35

Sample Preparation: Preparation Method: EPA 5030 (Purge and Trap) Extract ID: 20C0276-02 V

Preparation Batch: BIC0561 Sample Size: 10 mL Prepared: 03/26/2020 Final Volume: 10 mL

Reporting CAS Number Dilution Limit Result Units Analyte Notes Gasoline Range Organics (Tol-Nap) GRO 100 ND U ug/L 80-120 % 98.4 % Surrogate: Toluene-d8 Surrogate: 4-Bromofluorobenzene 80-120 % 91.8 %

Pacific Groundwater GroupProject:Birds Eye2377 Eastlake Ave. E. Suite 200Project Number:Birds EyeSeattle WA, 98102Project Manager:Inger Jackson

Reported: 13-Apr-2020 08:50

MW-12D 20C0276-02 (Water)

Semivolatile Organic Compounds - SIM

 Method: EPA 8270D-SIM
 Sampled: 03/20/2020 12:30

 Instrument: NT8 Analyst: JZ
 Analyzed: 04/01/2020 14:25

Sample Preparation: Preparation Method: EPA 3520C (Liq Liq) Extract ID: 20C0276-02 D 01

Preparation Batch: BIC0579 Sample Size: 500 mL Prepared: 03/26/2020 Final Volume: 0.5 mL

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Analyte	CAS Nulliber	Dilution	Emit	Result		Notes
Naphthalene	91-20-3	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
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
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	<u> </u>		31-120 %	38.1	%	
Surrogate: Dibenzo[a,h]anthracene-d14			10-125 %	79.0	%	

Analytical Resources, Inc.

Pacific Groundwater GroupProject: Birds Eye2377 Eastlake Ave. E. Suite 200Project Number: Birds EyeReported:Seattle WA, 98102Project Manager: Inger Jackson13-Apr-2020 08:50

MW-12D 20C0276-02RE1 (Water)

Petroleum Hydrocarbons

Method: NWTPH-Dx			Sampled: 03/20/2020 12:30				
Instrument: FID4 Analy	vst: CTO		Analyzed: 04/03/2020 11				
Sample Preparation:	Preparation Method: EPA 3510C SepF Preparation Batch: BIC0570 Prepared: 03/27/2020	Sample Size: 500 mL Final Volume: 1 mL		Extract	ID: 20C027	6-02RE1 A 01	
Sample Cleanup:	Cleanup Method: Silica Gel Cleanup Batch: CID0007 Cleaned: 03-Apr-2020	Initial Volume: 1 mL Final Volume: 1 mL		Extract	ID: 20C027	6-02RE1 A 01	
Sample Cleanup:	Cleanup Method: Sulfuric Acid Cleanup Batch: CID0006 Cleaned: 03-Apr-2020	Initial Volume: 1 mL Final Volume: 1 mL		Extract	ID:20C027	6-02RE1 A 01	
Analyte		CAS Number Dilution	Reporting Limit	Result	Units	Notes	

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 %	74.2	%	

Pacific Groundwater Group Project: Birds Eye 2377 Eastlake Ave. E. Suite 200 Project Number: Birds Eye Seattle WA, 98102 Project Manager: Inger Jackson

Reported: 13-Apr-2020 08:50

MW-9S 20C0276-03 (Water)

Volatile Organic Compounds

Method: EPA 8260C Sampled: 03/20/2020 15:50 Instrument: NT2 Analyst: LH Analyzed: 03/26/2020 15:55 Extract ID: 20C0276-03 E

Preparation Method: EPA 5030 (Purge and Trap) Sample Preparation:

Preparation Batch: BIC0561 Sample Size: 10 mL Prepared: 03/26/2020 Final Volume: 10 mL

			Reporting			
Analyte	CAS Number	Dilution	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: Toluene-d8			80-120 %	96.3	%	
Surrogate: 4-Bromofluorobenzene			80-120 %	88.4	%	
Surrogate: 1,2-Dichlorobenzene-d4			80-120 %	100	%	



Pacific Groundwater Group
Project: Birds Eye
2377 Eastlake Ave. E. Suite 200
Project Number: Birds Eye
Seattle WA, 98102
Project Manager: Inger Jackson

Reported: 13-Apr-2020 08:50

MW-9S 20C0276-03 (Water)

Volatile Organic Compounds

 Method: NWTPHg
 Sampled: 03/20/2020 15:50

 Instrument: NT2 Analyst: LH
 Analyzed: 03/26/2020 15:55

Sample Preparation: Preparation Method: EPA 5030 (Purge and Trap) Extract ID: 20C0276-03 E

Preparation Batch: BIC0561 Sample Size: 10 mL Prepared: 03/26/2020 Final Volume: 10 mL

Reporting CAS Number Dilution Limit Result Units Analyte Notes Gasoline Range Organics (Tol-Nap) GRO 100 ND U ug/L 80-120 % 96.3 % Surrogate: Toluene-d8 Surrogate: 4-Bromofluorobenzene 80-120 % 88.4 %



Pacific Groundwater Group
Project: Birds Eye
2377 Eastlake Ave. E. Suite 200
Project Number: Birds Eye
Seattle WA, 98102
Project Manager: Inger Jackson

Reported: 13-Apr-2020 08:50

MW-9S 20C0276-03 (Water)

Semivolatile Organic Compounds - SIM

 Method: EPA 8270D-SIM
 Sampled: 03/20/2020 15:50

 Instrument: NT8 Analyst: JZ
 Analyzed: 04/01/2020 15:43

Sample Preparation: Preparation Method: EPA 3520C (Liq Liq) Extract ID: 20C0276-03 B 01

Preparation Batch: BIC0579 Sample Size: 500 mL Prepared: 03/26/2020 Final Volume: 0.5 mL

11eparea. 03/20/2020	i mai voiame.	IIIE				
Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Naphthalene	91-20-3	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
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
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 %	44.0	%	
Surrogate: Dibenzo[a,h]anthracene-d14			10-125 %	91.3	%	

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%

71.0

Pacific Groundwater GroupProject: Birds Eye2377 Eastlake Ave. E. Suite 200Project Number: Birds EyeReported:Seattle WA, 98102Project Manager: Inger Jackson13-Apr-2020 08:50

MW-9S 20C0276-03RE1 (Water)

Petroleum Hydrocarbons

Surrogate: o-Terphenyl

Method: NWTPH-Dx	lethod: NWTPH-Dx					20/2020 15:50		
Instrument: FID4 Analy	rst: CTO			Analyzed: 04/03/2020 12:1				
Sample Preparation:	Preparation Method: EPA 3510C SepF			Extract 1	ID: 20C027	6-03RE1 A 01		
	Preparation Batch: BIC0570	Sample Size: 500 mL						
	Prepared: 03/27/2020	Final Volume: 1 mL						
Sample Cleanup:	Cleanup Method: Silica Gel			Extract 1	D: 20C027	6-03RE1 A 01		
	Cleanup Batch: CID0007	Initial Volume: 1 mL						
	Cleaned: 03-Apr-2020	Final Volume: 1 mL						
Sample Cleanup:	Cleanup Method: Sulfuric Acid			Extract	ID:20C027	6-03RE1 A 01		
	Cleanup Batch: CID0006	Initial Volume: 1 mL		Z.m.	1202027	0 0010211101		
	Cleaned: 03-Apr-2020	Final Volume: 1 mL						
			Reporting					
Analyte		CAS Number Dilution	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		

50-150 %

Pacific Groundwater Group Project: Birds Eye 2377 Eastlake Ave. E. Suite 200 Project Number: Birds Eye Seattle WA, 98102 Project Manager: Inger Jackson

Reported: 13-Apr-2020 08:50

MW-9D 20C0276-04 (Water)

Volatile Organic Compounds

Method: EPA 8260C Sampled: 03/20/2020 16:00 Instrument: NT2 Analyst: LH Analyzed: 03/26/2020 16:16 Extract ID: 20C0276-04 F

Preparation Method: EPA 5030 (Purge and Trap) Sample Preparation:

Preparation Batch: BIC0561 Sample Size: 10 mL Prepared: 03/26/2020 Final Volume: 10 mL

	110purou: 05/20/2020	1 11141 (0141114)	o mil				
Analyte		CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Tharyte		C/15 Ivanioci	Dilution		Result		rvotes
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: Toluene-d8				80-120 %	98.6	%	
Surrogate: 4-Bromofluorobenzen	e			80-120 %	87.2	%	
Surrogate: 1,2-Dichlorobenzene-	d4			80-120 %	104	%	



Pacific Groundwater Group
Project: Birds Eye
2377 Eastlake Ave. E. Suite 200
Project Number: Birds Eye
Seattle WA, 98102
Project Manager: Inger Jackson

Reported: 13-Apr-2020 08:50

MW-9D 20C0276-04 (Water)

Volatile Organic Compounds

 Method: NWTPHg
 Sampled: 03/20/2020 16:00

 Instrument: NT2
 Analyst: LH

 Analyzed: 03/26/2020 16:16

Sample Preparation: Preparation Method: EPA 5030 (Purge and Trap) Extract ID: 20C0276-04 F

Preparation Batch: BIC0561 Sample Size: 10 mL Prepared: 03/26/2020 Final Volume: 10 mL

Reporting CAS Number Dilution Limit Result Units Analyte Notes Gasoline Range Organics (Tol-Nap) GRO 100 ND U ug/L 80-120 % 98.6 % Surrogate: Toluene-d8 Surrogate: 4-Bromofluorobenzene 80-120 % 87.2 %



Pacific Groundwater GroupProject:Birds Eye2377 Eastlake Ave. E. Suite 200Project Number:Birds EyeSeattle WA, 98102Project Manager:Inger Jackson

Reported: 13-Apr-2020 08:50

MW-9D 20C0276-04 (Water)

Semivolatile Organic Compounds - SIM

 Method: EPA 8270D-SIM
 Sampled: 03/20/2020 16:00

 Instrument: NT8 Analyst: JZ
 Analyzed: 04/01/2020 16:09

Sample Preparation: Preparation Method: EPA 3520C (Liq Liq) Extract ID: 20C0276-04 B 01

Preparation Batch: BIC0579 Sample Size: 500 mL Prepared: 03/26/2020 Final Volume: 0.5 mL

1 repared: 05/20/2020	i mai voiume.	IIIE				
Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Naphthalene	91-20-3	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
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
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 %	42.9	%	
Surrogate: Dibenzo[a,h]anthracene-d14			10-125 %	91.5	%	

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Pacific Groundwater GroupProject: Birds Eye2377 Eastlake Ave. E. Suite 200Project Number: Birds EyeReported:Seattle WA, 98102Project Manager: Inger Jackson13-Apr-2020 08:50

MW-9D 20C0276-04RE1 (Water)

Petroleum Hydrocarbons

Method: NWTPH-Dx	fethod: NWTPH-Dx					20/2020 16:00	
Instrument: FID4 Analy	vst: CTO		Analyzed: 04/03/2020 12:				
Sample Preparation:	Preparation Method: EPA 3510C SepF Preparation Batch: BIC0570 Prepared: 03/27/2020	Sample Size: 500 mL Final Volume: 1 mL		Extract	ID: 20C027	6-04RE1 A 01	
Sample Cleanup:	Cleanup Method: Silica Gel Cleanup Batch: CID0007 Cleaned: 03-Apr-2020	Initial Volume: 1 mL Final Volume: 1 mL		Extract	ID: 20C027	6-04RE1 A 01	
Sample Cleanup:	Cleanup Method: Sulfuric Acid Cleanup Batch: CID0006 Cleaned: 03-Apr-2020	Initial Volume: 1 mL Final Volume: 1 mL		Extract	ID:20C027	'6-04RE1 A 01	
Analyte		CAS Number Dilution	Reporting Limit	Result	Units	Notes	
D' 1D 0 ' (01	2 (24)	DDO 1	0.400	3.75	/=	* *	

			Reporting			
Analyte	CAS Number	Dilution	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 %	77.4	%	

Analytical Resources, Inc.

Pacific Groundwater Group Project: Birds Eye 2377 Eastlake Ave. E. Suite 200 Project Number: Birds Eye Seattle WA, 98102 Project Manager: Inger Jackson

Reported: 13-Apr-2020 08:50

MW-22S 20C0276-05 (Water)

Volatile Organic Compounds

Method: EPA 8260C Sampled: 03/20/2020 16:00 Instrument: NT2 Analyst: LH Analyzed: 03/26/2020 16:35 Extract ID: 20C0276-05 G

Sample Preparation: Preparation Method: EPA 5030 (Purge and Trap)

Preparation Batch: BIC0561 Sample Size: 10 mL Prepared: 03/26/2020 Final Volume: 10 mL

			Reporting			
Analyte	CAS Number	Dilution	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: Toluene-d8			80-120 %	98.3	%	
Surrogate: 4-Bromofluorobenzene			80-120 %	85.0	%	
Surrogate: 1,2-Dichlorobenzene-d4			80-120 %	103	%	



Pacific Groundwater Group
Project: Birds Eye
2377 Eastlake Ave. E. Suite 200
Project Number: Birds Eye
Seattle WA, 98102
Project Manager: Inger Jackson

Reported: 13-Apr-2020 08:50

MW-22S 20C0276-05 (Water)

Volatile Organic Compounds

 Method: NWTPHg
 Sampled: 03/20/2020 16:00

 Instrument: NT2 Analyst: LH
 Analyzed: 03/26/2020 16:35

Sample Preparation: Preparation Method: EPA 5030 (Purge and Trap) Extract ID: 20C0276-05 G

Preparation Batch: BIC0561 Sample Size: 10 mL Prepared: 03/26/2020 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 %	98.3	%	
Surrogate: 4-Bromofluorobenzene			80-120 %	85.0	%	



Pacific Groundwater GroupProject:Birds Eye2377 Eastlake Ave. E. Suite 200Project Number:Birds EyeSeattle WA, 98102Project Manager:Inger Jackson

Reported: 13-Apr-2020 08:50

MW-22S 20C0276-05 (Water)

Semivolatile Organic Compounds - SIM

 Method: EPA 8270D-SIM
 Sampled: 03/20/2020 16:00

 Instrument: NT8 Analyst: JZ
 Analyzed: 04/01/2020 16:34

Sample Preparation: Preparation Method: EPA 3520C (Liq Liq) Extract ID: 20C0276-05 B 01

Preparation Batch: BIC0579 Sample Size: 500 mL Prepared: 03/26/2020 Final Volume: 0.5 mL

F1epared. 05/20/2020	Tiliai volume. o	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
Acenaphthylene	208-96-8	1	0.10	ND	ug/L	U
Acenaphthene	83-32-9	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
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 %	39.7	%	
Surrogate: Dibenzo[a,h]anthracene-d14			10-125 %	89.1	%	

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Pacific Groundwater GroupProject:Birds Eye2377 Eastlake Ave. E. Suite 200Project Number:Birds EyeSeattle WA, 98102Project Manager:Inger Jackson13-Apr-2020 08:50

MW-22S 20C0276-05RE1 (Water)

Petroleum Hydrocarbons

Method: NWTPH-Dx				S	ampled: 03/	20/2020 16:00
Instrument: FID4 Analy	vst: CTO			A	nalyzed: 04/	03/2020 12:50
Sample Preparation:	Preparation Method: EPA 3510C SepF Preparation Batch: BIC0570 Prepared: 03/27/2020	Sample Size: 500 mL Final Volume: 1 mL		Extract	ID: 20C027	6-05RE1 A 01
Sample Cleanup:	Cleanup Method: Silica Gel Cleanup Batch: CID0007 Cleaned: 03-Apr-2020	Initial Volume: 1 mL Final Volume: 1 mL		Extract	ID: 20C027	6-05RE1 A 01
Sample Cleanup:	Cleanup Method: Sulfuric Acid Cleanup Batch: CID0006 Cleaned: 03-Apr-2020	Initial Volume: 1 mL Final Volume: 1 mL		Extract	: ID:20C027	6-05RE1 A 01
Analyte		CAS Number Dilution	Reporting Limit	Result	Units	Notes

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 %	80.4	%	

Pacific Groundwater GroupProject:Birds Eye2377 Eastlake Ave. E. Suite 200Project Number:Birds EyeSeattle WA, 98102Project Manager:Inger Jackson

Reported: 13-Apr-2020 08:50

Trip Blank 20C0276-06 (Water)

Volatile Organic Compounds

 Method: EPA 8260C
 Sampled: 03/20/2020 10:55

 Instrument: NT2
 Analyst: LH

 Analyzed: 03/26/2020 11:47

Sample Preparation: Preparation Method: EPA 5030 (Purge and Trap) Extract ID: 20C0276-06 E

Preparation Batch: BIC0561 Sample Size: 10 mL Prepared: 03/26/2020 Final Volume: 10 mL

			Reporting			
Analyte	CAS Number	Dilution	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: Toluene-d8			80-120 %	97.3	%	
Surrogate: 4-Bromofluorobenzene			80-120 %	94.5	%	
Surrogate: 1,2-Dichlorobenzene-d4			80-120 %	100	%	



Pacific Groundwater Group Project: Birds Eye
2377 Eastlake Ave. E. Suite 200 Project Number: Birds Eye
Seattle WA, 98102 Project Manager: Inger Jackson

Reported: 13-Apr-2020 08:50

Trip Blank 20C0276-06 (Water)

Volatile Organic Compounds

 Method: NWTPHg
 Sampled: 03/20/2020 10:55

 Instrument: NT2 Analyst: LH
 Analyzed: 03/26/2020 11:47

Sample Preparation: Preparation Method: EPA 5030 (Purge and Trap) Extract ID: 20C0276-06 E

Preparation Batch: BIC0561 Sample Size: 10 mL Prepared: 03/26/2020 Final Volume: 10 mL

Reporting CAS Number Dilution Limit Result Units Analyte Notes Gasoline Range Organics (Tol-Nap) GRO 100 ND U ug/L 80-120 % 97.3 % Surrogate: Toluene-d8 Surrogate: 4-Bromofluorobenzene 80-120 % 94.5 %





Project: Birds Eye
Project Number: Birds Eye
Project Manager: Inger Jackson

Reported: 13-Apr-2020 08:50

Volatile Organic Compounds - Quality Control

Batch BIC0561 - EPA 5030 (Purge and Trap)

Instrument: NT2 Analyst: LH

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
	resoure	Ziiiit								1.0100
Blank (BIC0561-BLK1)	ND	100		ared: 26-Mai	r-2020 A	nalyzed: 26-	Mar-2020 1	1:06		U
Gasoline Range Organics (Tol-Nap)		100	ug/L							
Surrogate: Toluene-d8	4.75		ug/L	5.00		95.0	80-120			
Surrogate: 4-Bromofluorobenzene	4.71		ug/L	5.00		94.2	80-120			
Blank (BIC0561-BLK2)			Prepa	ared: 26-Ma	r-2020 A	nalyzed: 26-	Mar-2020 1	1:06		
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: Toluene-d8	4.75		ug/L	5.00		95.0	80-120			
Surrogate: 4-Bromofluorobenzene	4.71		ug/L	5.00		94.2	80-120			
Surrogate: 1,2-Dichlorobenzene-d4	5.19		ug/L	5.00		104	80-120			
LCS (BIC0561-BS1)			Prepa	ared: 26-Ma	r-2020 A	nalyzed: 26-	Mar-2020 0	8:50		
Gasoline Range Organics (Tol-Nap)	972	100	ug/L	1000		97.2	72-128			
Surrogate: Toluene-d8	5.02		ug/L	5.00		100	80-120			
Surrogate: 4-Bromofluorobenzene	5.20		ug/L	5.00		104	80-120			
LCS (BIC0561-BS2)			Prepa	ared: 26-Ma	r-2020 A	nalyzed: 26-	Mar-2020 0	9:24		
Benzene	10.2	0.20	ug/L	10.0		102	80-120			
Toluene	10.2	0.20	ug/L	10.0		102	80-120			
Ethylbenzene	10.3	0.20	ug/L	10.0		103	80-120			
m,p-Xylene	21.4	0.40	ug/L	20.0		107	80-121			
o-Xylene	11.0	0.20	ug/L	10.0		110	80-121			
Surrogate: Toluene-d8	5.00		ug/L	5.00		100	80-120			
Surrogate: 4-Bromofluorobenzene	5.14		ug/L	5.00		103	80-120			
Surrogate: 1,2-Dichlorobenzene-d4	4.90		ug/L	5.00		98.1	80-120			
LCS Dup (BIC0561-BSD1)			Prepa	ared: 26-Ma	r-2020 A	nalyzed: 26-	Mar-2020 0	9:45		
Gasoline Range Organics (Tol-Nap)	946	100	ug/L	1000		94.6	72-128	2.70	30	
Surrogate: Toluene-d8	5.01		ug/L	5.00		100	80-120			
Surrogate: 4-Bromofluorobenzene	5.12		ug/L	5.00		102	80-120			

Analytical Resources, Inc.





Project: Birds Eye
Project Number: Birds Eye
Project Manager: Inger Jackson

Reported: 13-Apr-2020 08:50

Volatile Organic Compounds - Quality Control

Batch BIC0561 - EPA 5030 (Purge and Trap)

Instrument: NT2 Analyst: LH

		Reporting		Spike	Source		%REC		RPD	
QC Sample/Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
LCS Dup (BIC0561-BSD2)			Prepa	ared: 26-Mar	-2020 An	alyzed: 26-	Mar-2020 1	0:05		
Benzene	10.0	0.20	ug/L	10.0		100	80-120	2.20	30	
Toluene	10.1	0.20	ug/L	10.0		101	80-120	1.45	30	
Ethylbenzene	10.3	0.20	ug/L	10.0		103	80-120	0.39	30	
m,p-Xylene	21.0	0.40	ug/L	20.0		105	80-121	2.22	30	
o-Xylene	10.4	0.20	ug/L	10.0		104	80-121	5.43	30	
Surrogate: Toluene-d8	5.07		ug/L	5.00	•	101	80-120	•		
Surrogate: 4-Bromofluorobenzene	5.05		ug/L	5.00		101	80-120			
Surrogate: 1,2-Dichlorobenzene-d4	4.91		ug/L	5.00		98.1	80-120			

Matrix Spike (BIC0561-MS1)	Source: 2	0C0276-02	Prepa	red: 26-Mar	-2020 A	nalyzed: 26-	-Mar-2020 18:23
Benzene	9.37	0.20	ug/L	10.0	ND	93.7	80-120
Toluene	9.52	0.20	ug/L	10.0	ND	95.2	80-120
Ethylbenzene	9.37	0.20	ug/L	10.0	ND	93.7	80-120
m,p-Xylene	19.2	0.40	ug/L	20.0	ND	96.0	80-121
o-Xylene	9.35	0.20	ug/L	10.0	ND	93.5	80-121
Surrogate: Toluene-d8	5.09		ug/L	5.00	4.92	102	80-120
Surrogate: 4-Bromofluorobenzene	4.96		ug/L	5.00	4.59	99.1	80-120
Surrogate: 1,2-Dichlorobenzene-d4	4.89		ug/L	5.00	5.11	97.8	80-120

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

Matrix Spike (BIC0561-MS2)	Source: 20	C0276-02	Prepa	ared: 26-Mar	-2020 A	nalyzed: 26-	-Mar-2020 19:03
Gasoline Range Organics (Tol-Nap)	778	100	ug/L	1000	ND	77.8	72-128
Surrogate: Toluene-d8	5.08		ug/L	5.00	4.92	102	80-120
Surrogate: 4-Bromofluorobenzene	4.74		ug/L	5.00	4.59	94.7	80-120

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

Matrix Spike Dup (BIC0561-MSD1)	Source: 2	Source: 20C0276-02		Prepared: 26-Mar-2020 Analyzed: 26-Mar-2020 18:43					
Benzene	8.93	0.20	ug/L	10.0	ND	89.3	80-120	4.78	30
Toluene	8.99	0.20	ug/L	10.0	ND	89.9	80-120	5.72	30
Ethylbenzene	8.79	0.20	ug/L	10.0	ND	87.9	80-120	6.37	30
m,p-Xylene	17.9	0.40	ug/L	20.0	ND	89.7	80-121	6.78	30
o-Xylene	8.74	0.20	ug/L	10.0	ND	87.4	80-121	6.66	30
Surrogate: Toluene-d8	5.09		ug/L	5.00	4.92	102	80-120		
Surrogate: 4-Bromofluorobenzene	4.97		ug/L	5.00	4.59	99.4	80-120		

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Pacific Groundwater Group 2377 Eastlake Ave. E. Suite 200 Project: Birds Eye Project Number: Birds Eye

Seattle WA, 98102

Project Number:Birds EyeReported:Project Manager:Inger Jackson13-Apr-2020 08:50

Volatile Organic Compounds - Quality Control

Batch BIC0561 - EPA 5030 (Purge and Trap)

Instrument: NT2 Analyst: LH

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Matrix Spike Dup (BIC0561-MSD1)	Source:	20C0276-02	Prepa	ared: 26-Ma	r-2020 Ar	nalyzed: 26-	Mar-2020 1	8:43		
Surrogate: 1,2-Dichlorobenzene-d4	4.97		ug/L	5.00	5.11	99.3	80-120			
Recovery limits for target analytes in MS/MSD (C samples are advisor	y only.								

Matrix Spike Dup (BIC0561-MSD2)	Source: 20C0276-02 Prepared: 26-Mar-2020 Analyzed: 26-Mar-2020 19:23									
Gasoline Range Organics (Tol-Nap)	796	100	ug/L	1000	ND	79.6	72-128	2.37	30	
Surrogate: Toluene-d8	5.13		ug/L	5.00	4.92	103	80-120			
Surrogate: 4-Bromofluorobenzene	4.95		ug/L	5.00	4.59	99.0	80-120			

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





Pacific Groundwater Group 2377 Eastlake Ave. E. Suite 200

Seattle WA, 98102

Project Number: Birds Eye
Project Manager: Inger Jackson

Reported: 13-Apr-2020 08:50

Semivolatile Organic Compounds - SIM - Quality Control

Batch BIC0579 - EPA 3520C (Liq Liq)

Instrument: nt8 Analyst: JZ

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
	Kesuit	Liiilt							Lillit	inotes
Blank (BIC0579-BLK1)				ared: 26-Mai	r-2020 An	alyzed: 01-	Apr-2020 12	2:42		
Naphthalene	ND	0.10	ug/L							U
Acenaphthylene	ND	0.10	ug/L							U
Acenaphthene	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
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	1.20		ug/L	3.00		40.1	31-120			
Surrogate: Dibenzo[a,h]anthracene-d14	2.66		ug/L	3.00		88.8	10-125			
LCS (BIC0579-BS1)			Pren	ared: 26-Mai	r-2020 An	alvzed: 01-	Apr-2020 13	3:08		
Naphthalene	1.07	0.10	ug/L	3.00		35.7	33-120			
Acenaphthylene	0.79	0.10	ug/L	3.00		26.3	32-120			*
Acenaphthene	1.00	0.10	ug/L	3.00		33.5	38-120			*
Fluorene	1.07	0.10	ug/L	3.00		35.7	41-120			*
Phenanthrene	1.22	0.10	ug/L	3.00		40.6	49-120			*
Anthracene	1.01	0.10	ug/L	3.00		33.8	39-120			*
Fluoranthene	1.33	0.10	ug/L	3.00		44.3	48-120			*
Pyrene	1.29	0.10	ug/L	3.00		43.0	48-120			*
Benzo(a)anthracene	1.14	0.10	ug/L	3.00		37.9	37-120			
Chrysene	1.32	0.10	ug/L	3.00		43.9	48-120			*
Benzofluoranthenes, Total	7.18	0.20	ug/L	9.00		79.8	46-120			
Benzo(a)pyrene	1.41	0.10	ug/L	3.00		46.9	25-120			
Indeno(1,2,3-cd)pyrene	2.21	0.10	ug/L	3.00		73.8	32-120			
Dibenzo(a,h)anthracene	2.44	0.10	ug/L	3.00		81.4	21-120			
Benzo(g,h,i)perylene	2.83	0.10	ug/L	3.00		94.3	28-120			Q

Analytical Resources, Inc.





Pacific Groundwater Group 2377 Eastlake Ave. E. Suite 200

Seattle WA, 98102

Project: Birds Eye
Project Number: Birds Eye
Project Manager: Inger Jackson

Reported: 13-Apr-2020 08:50

Semivolatile Organic Compounds - SIM - Quality Control

Batch BIC0579 - EPA 3520C (Liq Liq)

Instrument: nt8 Analyst: JZ

		Reporting		Spike	Source		%REC		RPD	
QC Sample/Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
LCS (BIC0579-BS1)			Prepa	ared: 26-Ma	r-2020 Ar	nalyzed: 01-	Apr-2020 1	3:08		
Surrogate: 2-Methylnaphthalene-d10	1.26		ug/L	3.00		42.1	31-120			
Surrogate: Dibenzo[a,h]anthracene-d14	3.05		ug/L	3.00		102	10-125			
LCS Dup (BIC0579-BSD1)			Prepa	ared: 26-Ma	r-2020 Ar	nalyzed: 01-2	Apr-2020 1	3:34		
Naphthalene	1.19	0.10	ug/L	3.00		39.8	33-120	10.90	30	
Acenaphthylene	0.98	0.10	ug/L	3.00		32.7	32-120	21.70	30	
Acenaphthene	1.25	0.10	ug/L	3.00		41.5	38-120	21.50	30	
Fluorene	1.35	0.10	ug/L	3.00		44.9	41-120	22.80	30	
Phenanthrene	1.44	0.10	ug/L	3.00		48.0	49-120	16.50	30	*
Anthracene	1.15	0.10	ug/L	3.00		38.2	39-120	12.30	30	*
Fluoranthene	1.56	0.10	ug/L	3.00		51.9	48-120	15.90	30	
Pyrene	1.52	0.10	ug/L	3.00		50.5	48-120	16.00	30	
Benzo(a)anthracene	1.39	0.10	ug/L	3.00		46.2	37-120	19.60	30	
Chrysene	1.63	0.10	ug/L	3.00		54.5	48-120	21.50	30	
Benzofluoranthenes, Total	7.91	0.20	ug/L	9.00		87.9	46-120	9.68	30	
Benzo(a)pyrene	1.62	0.10	ug/L	3.00		54.1	25-120	14.20	30	
Indeno(1,2,3-cd)pyrene	2.49	0.10	ug/L	3.00		83.1	32-120	11.90	30	
Dibenzo(a,h)anthracene	2.69	0.10	ug/L	3.00		89.8	21-120	9.83	30	
Benzo(g,h,i)perylene	3.07	0.10	ug/L	3.00		102	28-120	8.13	30	Q
Surrogate: 2-Methylnaphthalene-d10	1.44		ug/L	3.00		48.0	31-120			
Surrogate: Dibenzo[a,h]anthracene-d14	3.22		ug/L	3.00		107	10-125			
Matrix Spike (BIC0579-MS1)	Source	: 20C0276-02	Prepa	ared: 26-Ma	r-2020 Ar	nalyzed: 01-2	Apr-2020 1	4:51		
Naphthalene	1.07	0.10	ug/L	3.00	ND	35.6	33-120			
Acenaphthylene	0.95	0.10	ug/L	3.00	ND	31.7	32-120			*
Acenaphthene	1.24	0.10	ug/L	3.00	ND	41.2	38-120			
Fluorene	1.25	0.10	ug/L	3.00	ND	41.7	41-120			
Phenanthrene	1.31	0.10	ug/L	3.00	ND	43.8	49-120			*
Anthracene	1.11	0.10	ug/L	3.00	ND	36.9	39-120			*
Fluoranthene	1.43	0.10	ug/L	3.00	ND	47.7	48-120			*
Pyrene	1.46	0.10	ug/L	3.00	ND	48.7	48-120			
Benzo(a)anthracene	1.35	0.10	ug/L	3.00	ND	44.9	37-120			
Chrysene	1.44	0.10	ug/L	3.00	ND	48.1	48-120			
Benzofluoranthenes, Total	5.98	0.20	ug/L	9.00	ND	66.4	46-120			
Benzo(a)pyrene	1.44	0.10	ug/L	3.00	ND	48.1	25-120			

Analytical Resources, Inc.





Project: Birds Eye
Project Number: Birds Eye
Project Manager: Inger Jackson

Reported: 13-Apr-2020 08:50

Semivolatile Organic Compounds - SIM - Quality Control

Batch BIC0579 - EPA 3520C (Liq Liq)

Instrument: NT8 Analyst: JZ

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Matrix Spike (BIC0579-MS1)	Source: 2	20C0276-02	Prepa	red: 26-Mai	r-2020 A	nalyzed: 01-	Apr-2020 14	1:51		
Indeno(1,2,3-cd)pyrene	1.99	0.10	ug/L	3.00	ND	66.2	32-120			
Dibenzo(a,h)anthracene	2.15	0.10	ug/L	3.00	ND	71.8	21-120			
Benzo(g,h,i)perylene	2.46	0.10	ug/L	3.00	ND	81.9	28-120			Q
Surrogate: 2-Methylnaphthalene-d10	1.34		ug/L	3.00	1.14	44.7	31-120			
Surrogate: Dibenzo[a,h]anthracene-d14	2.78		ug/L	3.00	2.37	92.8	10-125			

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

Matrix Spike Dup (BIC0579-MSD1)	Source: 2	20C0276-02	Prepa	red: 26-Mar	-2020 A	nalyzed: 01-	Apr-2020 15	5:17		
Naphthalene	1.13	0.10	ug/L	3.00	ND	37.7	33-120	5.75	30	
Acenaphthylene	0.88	0.10	ug/L	3.00	ND	29.5	32-120	7.23	30	*
Acenaphthene	1.14	0.10	ug/L	3.00	ND	37.9	38-120	8.42	30	*
Fluorene	1.17	0.10	ug/L	3.00	ND	38.9	41-120	6.94	30	*
Phenanthrene	1.29	0.10	ug/L	3.00	ND	43.2	49-120	1.51	30	*
Anthracene	1.11	0.10	ug/L	3.00	ND	37.1	39-120	0.61	30	*
Fluoranthene	1.38	0.10	ug/L	3.00	ND	46.1	48-120	3.36	30	*
Pyrene	1.36	0.10	ug/L	3.00	ND	45.2	48-120	7.41	30	*
Benzo(a)anthracene	1.31	0.10	ug/L	3.00	ND	43.8	37-120	2.45	30	
Chrysene	1.46	0.10	ug/L	3.00	ND	48.7	48-120	1.31	30	
Benzofluoranthenes, Total	6.03	0.20	ug/L	9.00	ND	67.0	46-120	0.93	30	
Benzo(a)pyrene	1.46	0.10	ug/L	3.00	ND	48.7	25-120	1.22	30	
Indeno(1,2,3-cd)pyrene	1.94	0.10	ug/L	3.00	ND	64.7	32-120	2.27	30	
Dibenzo(a,h)anthracene	2.13	0.10	ug/L	3.00	ND	71.0	21-120	1.12	30	
Benzo(g,h,i)perylene	2.49	0.10	ug/L	3.00	ND	83.0	28-120	1.39	30	Q
Surrogate: 2-Methylnaphthalene-d10	1.31		ug/L	3.00	1.14	43.7	31-120			
Surrogate: Dibenzo[a,h]anthracene-d14	2.61		ug/L	3.00	2.37	87.0	10-125			

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

Analytical Resources, Inc.





Project: Birds Eye
Project Number: Birds Eye
Project Manager: Inger Jackson

Reported: 13-Apr-2020 08:50

Petroleum Hydrocarbons - Quality Control

Batch BIC0570 - EPA 3510C SepF

Instrument: FID4 Analyst: CTO

OC Samuela / Amakata	D14	Reporting	T I	Spike	Source	%REC	%REC	RPD	RPD	Natar
QC Sample/Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Blank (BIC0570-BLK1)			Prepa	red: 27-Ma	r-2020 A	nalyzed: 31-	-Mar-2020 (9:27		
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	0.172		mg/L	0.225		76.6	50-150			
Blank (BIC0570-BLK2)			Prepa	red: 27-Ma	r-2020 A	nalyzed: 03-	-Apr-2020 0	9:56		
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	0.169		mg/L	0.225		75.2	50-150			
LCS (BIC0570-BS1)			Prepa	red: 27-Ma	r-2020 A	nalyzed: 31-	-Mar-2020 (9:46		
Diesel Range Organics (C12-C24)	2.34	0.100	mg/L	3.00		78.2	56-120			
Surrogate: o-Terphenyl	0.188		mg/L	0.225		83.4	50-150			
LCS (BIC0570-BS2)			Prepa	red: 27-Ma	r-2020 A	nalyzed: 03-	-Apr-2020 1	0:15		
Diesel Range Organics (C12-C24)	2.30	0.100	mg/L	3.00		76.7	56-120			
Surrogate: o-Terphenyl	0.182		mg/L	0.225		81.1	50-150			
LCS Dup (BIC0570-BSD1)			Prepa	red: 27-Ma	r-2020 A	nalyzed: 31-	-Mar-2020 1	10:06		
Diesel Range Organics (C12-C24)	2.41	0.100	mg/L	3.00		80.3	56-120	2.67	30	
Surrogate: o-Terphenyl	0.193		mg/L	0.225		85.8	50-150			
LCS Dup (BIC0570-BSD2)			Prepa	red: 27-Ma	r-2020 A	nalyzed: 03-	-Apr-2020 1	0:34		
Diesel Range Organics (C12-C24)	2.31	0.100	mg/L	3.00		76.9	56-120	0.23	30	
Surrogate: o-Terphenyl	0.187		mg/L	0.225		83.2	50-150			
Matrix Spike (BIC0570-MS2)	Source	: 20C0276-02RE1	Prepa	red: 27-Ma	r-2020 A	nalyzed: 03-	-Apr-2020 1	1:32		
Diesel Range Organics (C12-C24)	2.04	0.100	mg/L	3.00	ND	68.1	56-120			
Surrogate: o-Terphenyl	0.159		mg/L	0.225	0.167	70.8	50-150	· ·		
Recovery limits for target analytes in MS/MSD (QC samples are adviso	ry only.								
Matrix Spike Dup (BIC0570-MSD2)	Source	: 20C0276-02RE1	Prepa	red: 27-Ma	r-2020 A	nalyzed: 03-	-Apr-2020 1	1:51		
Diesel Range Organics (C12-C24)	2.16	0.100	mg/L	3.00	ND	72.1	56-120	5.72	30	
Surrogate: o-Terphenyl	0.159	<u> </u>	mg/L	0.225	0.167	70.5	50-150		·	

Analytical Resources, Inc.

Pacific Groundwater Group Project: Birds Eye 2377 Eastlake Ave. E. Suite 200 Project Number: Birds Eye

2377 Eastlake Ave. E. Suite 200Project Number: Birds EyeReported:Seattle WA, 98102Project Manager: Inger Jackson13-Apr-2020 08:50

Petroleum Hydrocarbons - Quality Control

Batch BIC0570 - EPA 3510C SepF

Instrument: FID4 Analyst: CTO

		Reporting		Spike	Source		%REC		RPD	
QC Sample/Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

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

Analytical Resources, Inc.





Pacific Groundwater Group Project: Birds Eye 2377 Eastlake Ave. E. Suite 200 Project Number: Birds Eye

2377 Eastlake Ave. E. Suite 200Project Number: Birds EyeReported:Seattle WA, 98102Project Manager: Inger Jackson13-Apr-2020 08:50

Certified Analyses included in this Report

Analyte	Certifications

Certifications	
DoD-ELAP,ADEC,NELAP,CALAP,WADOE	
DoD-ELAP,NELAP,CALAP,WADOE	
DoD-ELAP,ADEC,NELAP,CALAP,WADOE	
DoD-ELAP,ADEC,NELAP,CALAP,WADOE	
DoD-ELAP,ADEC,NELAP,CALAP,WADOE	
DoD-ELAP,NELAP,CALAP,WADOE	
DoD-ELAP,NELAP,CALAP,WADOE	
DoD-ELAP,ADEC,NELAP,CALAP,WADOE	
DoD-ELAP,NELAP,CALAP,WADOE	
DoD-ELAP,NELAP,CALAP,WADOE	
DoD-ELAP,ADEC,NELAP,CALAP,WADOE	
DoD-ELAP,NELAP,CALAP,WADOE	
DoD-ELAP,ADEC,NELAP,CALAP,WADOE	
DoD-ELAP,NELAP,CALAP,WADOE	
DoD-ELAP,ADEC,NELAP,CALAP,WADOE	
DoD-ELAP,ADEC,NELAP,CALAP,WADOE	
	DoD-ELAP,ADEC,NELAP,CALAP,WADOE DoD-ELAP,ADEC,NELAP,CALAP,WADOE DoD-ELAP,ADEC,NELAP,CALAP,WADOE DoD-ELAP,ADEC,NELAP,CALAP,WADOE DoD-ELAP,ADEC,NELAP,CALAP,WADOE DoD-ELAP,NELAP,CALAP,WADOE DoD-ELAP,ADEC,NELAP,CALAP,WADOE DoD-ELAP,ADEC,NELAP,CALAP,WADOE DoD-ELAP,ADEC,NELAP,CALAP,WADOE DoD-ELAP,ADEC,NELAP,CALAP,WADOE DoD-ELAP,NELAP,CALAP,WADOE DoD-ELAP,NELAP,CALAP,WADOE DoD-ELAP,NELAP,CALAP,WADOE DoD-ELAP,NELAP,CALAP,WADOE DoD-ELAP,NELAP,CALAP,WADOE DoD-ELAP,NELAP,CALAP,WADOE DoD-ELAP,NELAP,CALAP,WADOE DoD-ELAP,ADEC,NELAP,CALAP,WADOE

Analytical Resources, Inc.

Toluene

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.

DoD-ELAP,ADEC,NELAP,CALAP,WADOE





Pacific Groundwater GroupProject: Birds Eye2377 Eastlake Ave. E. Suite 200Project Number: Birds EyeReported:Seattle WA, 98102Project Manager: Inger Jackson13-Apr-2020 08:50

trans-1,3-Dichloropropene DoD-ELAP, ADEC, NELAP, CALAP, WADOE 2-Hexanone DoD-ELAP, NELAP, CALAP, WADOE 1,1,2-Trichloroethane DoD-ELAP, ADEC, NELAP, CALAP, WADOE 1,3-Dichloropropane DoD-ELAP, ADEC, NELAP, CALAP, WADOE Tetrachloroethene DoD-ELAP, ADEC, NELAP, CALAP, WADOE Dibromochloromethane DoD-ELAP, ADEC, NELAP, CALAP, WADOE 1,2-Dibromoethane DoD-ELAP, NELAP, CALAP, WADOE DoD-ELAP, ADEC, NELAP, CALAP, WADOE Chlorobenzene Ethylbenzene DoD-ELAP, ADEC, NELAP, CALAP, WADOE 1,1,1,2-Tetrachloroethane DoD-ELAP, ADEC, NELAP, CALAP, WADOE m,p-Xylene DoD-ELAP, ADEC, NELAP, CALAP, WADOE o-Xylene DoD-ELAP, ADEC, NELAP, CALAP, WADOE Styrene DoD-ELAP, NELAP, CALAP, WADOE Bromoform DoD-ELAP, NELAP, CALAP, WADOE 1,1,2,2-Tetrachloroethane DoD-ELAP, ADEC, NELAP, CALAP, WADOE DoD-ELAP, ADEC, NELAP, CALAP, WADOE 1,2,3-Trichloropropane trans-1,4-Dichloro 2-Butene DoD-ELAP, ADEC, NELAP, CALAP, WADOE DoD-ELAP, NELAP, CALAP, WADOE n-Propylbenzene Bromobenzene DoD-ELAP, NELAP, CALAP, WADOE Isopropyl Benzene DoD-ELAP, NELAP, CALAP, WADOE 2-Chlorotoluene DoD-ELAP, ADEC, NELAP, CALAP, WADOE 4-Chlorotoluene DoD-ELAP, ADEC, NELAP, CALAP, WADOE t-Butylbenzene DoD-ELAP, NELAP, CALAP, WADOE 1,3,5-Trimethylbenzene DoD-ELAP, NELAP, CALAP, WADOE 1,2,4-Trimethylbenzene DoD-ELAP, NELAP, CALAP, WADOE s-Butylbenzene DoD-ELAP, NELAP, CALAP, WADOE DoD-ELAP, NELAP, CALAP, WADOE 4-Isopropyl Toluene 1,3-Dichlorobenzene DoD-ELAP, ADEC, NELAP, CALAP, WADOE 1,4-Dichlorobenzene DoD-ELAP, ADEC, NELAP, CALAP, WADOE n-Butylbenzene DoD-ELAP, NELAP, CALAP, WADOE DoD-ELAP, ADEC, NELAP, CALAP, WADOE 1,2-Dichlorobenzene DoD-ELAP, ADEC, NELAP, CALAP, WADOE 1,2-Dibromo-3-chloropropane 1.2.4-Trichlorobenzene DoD-ELAP, ADEC, NELAP, CALAP, WADOE Hexachloro-1,3-Butadiene DoD-ELAP, ADEC, NELAP, CALAP, WADOE Naphthalene DoD-ELAP, ADEC, NELAP, CALAP, WADOE 1.2.3-Trichlorobenzene DoD-ELAP, ADEC, NELAP, CALAP, WADOE Dichlorodifluoromethane DoD-ELAP, ADEC, NELAP, CALAP, WADOE Methyl tert-butyl Ether DoD-ELAP,ADEC,NELAP,CALAP,WADOE **WADOE** n-Hexane 2-Pentanone **WADOE**

Analytical Resources, Inc.





Pacific Groundwater GroupProject: Birds Eye2377 Eastlake Ave. E. Suite 200Project Number: Birds EyeReported:Seattle WA, 98102Project Manager: Inger Jackson13-Apr-2020 08:50

EPA 8270D-SIM in Water

EFA 02/0D-31W III 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

Diesel Range Organics (C12-C22) DoD-ELAP

Analytical Resources, Inc.





Pacific Groundwater Group	Project: Birds Eye	
2377 Eastlake Ave. E. Suite 200	Project Number: Birds Eye	Reported:
Seattle WA, 98102	Project Manager: Inger Jackson	13-Apr-2020 08:50

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	01/31/2021
CALAP	California Department of Public Health CAELAP	2748	06/30/2019
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2020
WADOE	WA Dept of Ecology	C558	06/30/2019
WA-DW	Ecology - Drinking Water	C558	06/30/2019

Analytical Resources, Inc.



Pacific Groundwater GroupProject: Birds Eye2377 Eastlake Ave. E. Suite 200Project Number: Birds EyeReported:Seattle WA, 98102Project Manager: Inger Jackson13-Apr-2020 08:50

Notes and Definitions

*	Flagged value is not within established control limits.
D	The reported value is from a dilution
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL)
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.

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