

December 22, 2020

Panjini Balaraju
Washington State Department of Ecology
Southwest Region – Toxics Cleanup Program/VCP
PO Box 47775
Olympia Washington 98504-7775

Re: Former Birds Eye Foods Tacoma, Third Quarter 2020 Groundwater Monitoring
Event Summary Report
Facility Site ID: 1328, Cleanup Site ID: 5012, VCP Site No SW1187

Dear Panjini:

This letter report summarizes the third quarter 2020 (2020 Q3) groundwater sampling event performed at the former Birds Eye Foods facility located at 3303 South 35th Street, Tacoma, Washington. Petroleum-related contamination in soil was identified in a portion of the facility, referred to as the “Boiler Room Site” (Site), which was the subject of a 2011 Remedial Investigation/Feasibility Study (2011 RI/FS) (Pacific Groundwater Group [PGG] 2011). The preferred remedial alternative identified in the 2011 RI/FS includes an environmental restrictive covenant and long-term groundwater quality monitoring in a network of four well pairs. In 2013 the Washington State Department of Ecology (Ecology) determined that no further remedial action is necessary to clean up contamination at the Boiler Room Site, dependent on the continued performance and effectiveness of the post-cleanup controls and groundwater quality monitoring. Ecology’s 2019 Periodic Review Report concluded that the cleanup actions completed at the Site continue to be protective of human health and the environment, that the requirements of the restrictive covenant are being satisfactorily met, and that no additional remedial actions are needed (Ecology 2019).

The Boiler Room Site is jointly regulated by Ecology and by the Tacoma – Pierce County Health Department (TPCHD). The 2020 Q3 sampling event was performed, and this summary report was prepared, to satisfy both the Ecology and TPCHD groundwater monitoring requirements.

Analytical results for groundwater samples collected in 2020 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 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 Birds Eye Foods, for specific application to the project Site. No other warranty, express or implied, is made.

BOILER ROOM SITE MONITORING PROGRAMS

As regulating agencies, groundwater monitoring at the Site is required by both Ecology and TPCHD and the monitoring programs are described below. The analytical suites are the same for both the Ecology- and TPCHD-required programs (*Chemicals of Concern and Site Cleanup Levels* section of this report), but the schedules and well networks differ.

The 2020 Q3 monitoring event was conducted to satisfy both the Voluntary Cleanup Program (VCP) Long-Term Monitoring Program required by Ecology and the Semi-Annual Groundwater Monitoring Program required by TPCHD.

ECOLOGY-REQUIRED VCP LONG-TERM MONITORING PROGRAM

The Birds Eye Foods Long-Term Groundwater Monitoring Plan (herein VCP Monitoring Plan) (Pacific Groundwater Group 2012) was reviewed by Ecology under the VCP framework of MTCA. The VCP Monitoring Plan describes the monitoring program objectives, well network, schedule, sampling protocols, contaminants of concern, and Site cleanup levels. The 2020 Q3 groundwater samples were collected in compliance with the VCP Monitoring Plan.

Monitoring Well Network

For the Boiler Room Site long-term monitoring well pairs, shallow wells have the added suffix “S”; deep wells have the added suffix “D”. At each pair, the shallow and deep wells are approximately five lateral feet from each other. Well construction information is summarized in Table 1 and well locations are shown on Figure 1. The long-term monitoring well network is presented in Figure 1 and consists of:

MW-9S	MW-12S	MW-13S	MW-14S
MW-9D	MW-12D	MW-13D	MW-14D

Monitoring Schedule

As described in the VCP Monitoring Plan, the preferred remedial alternative identified in the 2011 RI/FS includes groundwater quality monitoring in 8 wells at the following frequency:

- 4 quarters of monitoring in Year 1

- 1 event every 18 months in Years 2-10

This schedule is subject to change following Ecology Periodic Reviews¹ that are performed at five-year intervals (5-Year Reviews). Modifications to the groundwater monitoring program were not made as part of the 2019 Periodic Review.

The four quarters of consecutive monitoring in Year 1 were completed in 2013 Q1. The 2020 Q3 monitoring represents the fifth event at an 18-month interval and Year 8. The next sampling event under the VCP Monitoring Program is scheduled for 2022 Q1.

TPCHD-REQUIRED SEMI-ANNUAL GROUNDWATER MONITORING PROGRAM

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 on-going 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 are performed in the spring and fall and involve sampling wells MW-9S, MW-9D, MW-12S, and MW-12D (Figure 1), which are a subset of the VCP Long-Term Monitoring Program. The next sampling event under the Semi-Annual Monitoring Program is scheduled for 2021 Q1.

2020 Q3 GROUNDWATER SAMPLING SUMMARY

Groundwater quality samples for the 2020 Q3 monitoring event were collected from the Boiler Room Site long-term well network in compliance with the Semi-Annual Groundwater Monitoring Plan (PGG 2013) and TPCHD requirements (Marek undated; received June 13, 2013) on September 9th and 10th, 2020 by representatives of PGG.

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 and temporarily stored onsite prior to offsite treatment and disposal.

¹ The Boiler Room Site No Further Action is dated July 8, 2013; the first Periodic Review was completed in 2019 (Ecology 2019) and concluded that cleanup actions continue to be protective of human health and the environment, that the requirements of the Restrictive Covenant are being satisfactorily met, and that no additional remedial actions are needed at this time.

CHEMICALS OF CONCERN AND SITE CLEANUP LEVELS

Groundwater samples were delivered to Analytical Resources, Inc. (ARI), a Washington State certified laboratory, on September 10, 2020. Samples were delivered in ice chests following standard chain-of-custody procedures.

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

- Northwest Total Petroleum Hydrocarbons – Gasoline Range Organics (NWTPH-G), and Diesel-Range and Heavy Oil-Range Organics (NWTPH-Dx)
- BTEX Compounds: Benzene, Toluene, Ethylbenzene, and Xylenes (EPA Method 8260 ²)
- PAHs: Polynuclear Aromatic Hydrocarbons (EPA Method 8270E with selected ion monitoring modification to achieve required reporting limits)

As described in the 2011 RI/FS and Long-Term Monitoring Plan, standard MTCA Method A Unrestricted Land Use cleanup levels are applicable to the Boiler Room Site to evaluate the relative chemical effects from soil contamination at the Site on groundwater quality. MTCA Method A meets the criteria of WAC 173-340-704(1) because there are few hazardous substances at the Site and numerical Method A standards have been established. Site-groundwater cleanup levels are presented in Tables 2 and 3, and are consistent with the 2011 RI/FS.

ANALYTICAL RESULTS

The 2020 Q3 groundwater monitoring analytical results are summarized in Tables 2 and 3. The analytical lab reports are presented in Appendix A. Site contaminants of concern were not detected in the groundwater samples. The analytical reporting limits were less than or equal to corresponding Site cleanup levels.

The 2020 Q3 groundwater analytical results indicate the preferred remedial alternative identified in the 2011 RI/FS is effective; the petroleum contamination in soil at the Boiler Room Site is not resulting in a dissolved plume with concentrations exceeding MTCA Method A groundwater cleanup levels.

Quality assurance/quality control (QA/QC) data associated with the Boiler Room Site 2020 Q3 groundwater samples were reviewed by PGG. All requested analyses were per-

² As stated in reports for sampling events performed between September 2015 and March 2017, groundwater samples collected at the Boiler Room Site between 2001 and March 2015 were analyzed for BTEX compounds by EPA Method 8021. Subsequently, ARI discontinued analyzing water samples for BTEX compounds by Method 8021 and informed PGG that “Ecology is moving away from that method as it gives false positives” (Bottem 2015). Therefore, samples collected at the Boiler Room Site in 2020 Q3 were analyzed for BTEX compounds by EPA 8260. ARI’s BTEX reporting limits for EPA 8260 are equal to or less than those for EPA 8021.

formed and the QA/QC assessments indicated acceptable results. Consistent with the VCP Monitoring Plan, field QA/QC included a blind field duplicate labeled MW-22S that was collected at well MW-12S and analyzed to evaluate analytical precision. No Site chemicals of concern were detected in either the 2020 Q3 field duplicate MW-22S or MW-12S.

GROUNDWATER FLOW DIRECTION

Water levels measured in the shallow well network during the 2020 Q3 sampling event (Table 2, measurements made September 9 and 10, 2020) were used to generate elevation contours of the water table (Figure 1). The contours reflect a very flat water table, varying only 0.25 feet, or 3 inches, across the Site. The groundwater flow direction during the 2020 Q3 event was from the north and south toward the center of the site.

REFERENCES

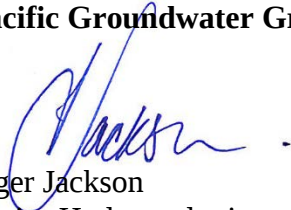
- Bottem, Kelly. 2015. Email from Kelly Bottem, ARI, to Inger Jackson, Pacific Groundwater Group re: AMQ4 Maytown. September 29, 2015.
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<https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx>
- Washington State Department of Ecology, 2019. Periodic Review Report Final Birds Eye Foods Facility; Site ID#: 1328; Cleanup Site ID#: 5012; 3303 South 35th Street Tacoma, Washington 98409. Southwest Regional Office Toxics Cleanup Program. February 2019.

CLOSING

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

Sincerely,

Pacific Groundwater Group



Inger Jackson
Senior Hydrogeologist

2020Q3_BEFSummaryReport_Final

Cc: René Rimelspach, Conagra Brands

Rob Olsen, Environmental Health Division/UST Program, Tacoma | Pierce
County Health Department

Attachments: Table 1. VCP Long-Term Monitoring Well Network Construction Details,
Birds Eye Boiler Room Site

Table 2. Summary of Groundwater Quality Data, Birds Eye Foods, 2020
Q3

Table 3. Summary of Polynuclear Aromatic Hydrocarbon (PAH,
SW8270E) Data, Birds Eye Foods, 2020 Q3

Figure 1. VCP Long-Term Monitoring Well Network & 2020 Q3 Water
Table Contours

Appendix A. ARI Lab Reports 20I0119 and 20I0132

Table 1. VCP Long-Term Monitoring Well Network Construction Details, Birds Eye Boiler Room Site

Units, Datum*		MW-9S	MW-9D	MW-12S	MW-12D	MW-13S	MW-13D	MW-14S	MW-14D
Unique Well ID (UWID)				BHL 104	BHL 103	BHL 106	BHL 105	BHL 108	BHL 107
Location Information									
Township/Range-Section		21N/R3E-07	21N/R3E-07	21N/R3E-07	21N/R3E-07	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	697449.3	697457.4	697375.4	697375.0
Easting	feet, NAD 83/91 WA South	1148195.0	1148194.9	1148259.2	1148259.1	1148109.1	1148110.2	1148314.6	1148326.9
Ground Surface Elevation	feet, NAVD 88	247.67	247.64	248.24	248.19	247.23	247.24	249.45	249.43
Measuring Point Elevation	feet, NAVD 88	246.99	247.14	247.86	247.90	246.89	246.98	249.08	249.10
Construction Information									
Date Completed		10/22/1991	8/24/1992	4/23/2012	4/23/2012	4/24/2012	4/24/2012	4/26/2012	4/25/2012
Diameter	inches	2	2	2	2	2	2	2	2
Depth Drilled	feet bgs	37	82	35	75	35	75	35	75
Top of Screen	feet bgs	22	77	20	63	20	63	20	63
Bottom of Screen	feet bgs	37	82	35	73	35	73	35	73
Depth Completed	feet bgs	37	82	35	73	35	73	35	73
Monument Type		← Sherwood High Traffic Flush Monument →							

* Vertical and Horizontal Datums use the Washington State Reference Network
bgs = below ground surface

Table 2: Summary of Groundwater Quality Data, Birds Eye Foods, 2020 Q3

CONSTITUENT	UNITS	Site Cleanup	MW-9S	MW-9D	MW-12S	MW-12D	MW-13S	MW-13D	MW-14S	MW-14D
		Levels*								
Field Parameters										
Depth to Water	feet		17.98	18.46	18.89	18.99	18.13	18.52	20.32	20.92
pH, Field	std. units		6.49	6.36	6.6	7.26	6.31	7.15	6.49	6.96
Specific Conductance, Field	umhos/cm		458.2	460.2	757.5	788.7	178.3	321.6	405.6	407.3
Temperature (C)	C		16.1	17.9	17.6	18.3	16.4	18.7	16.9	18
Turbidity, Field	NTU		5.24	5.68	11.42	6.47	4.13	6.99	7.69	11.56
NWTPH Analytes										
Diesel Range Organics	mg/L	0.5	0.1 U	0.1 U	0.1 U	0.1 U	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	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	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	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	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	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	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	0.4 U	0.4 U	0.4 U	0.4 U

**Cleanup Levels based on MTCA Method A.*

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 cleanup level represents the total concentration that all carcinogenic PAHs must meet using the toxicity equivalency method in WAC 173-340-708(8). See Table 3 for PAHs and text if carcinogenic PAHs detected in groundwater samples for this event.

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

Table 3: Summary of Polynuclear Aromatic Hydrocarbon (PAH, SW8270E) Data, Birds Eye Foods, 2020 Q3

CONSTITUENT	UNITS	Site Cleanup	MW-9S	MW-9D	MW-12S	MW-12D	MW-13S	MW-13D	MW-14S	MW-14D
		Levels*								
Carcinogenic PAHs										
Benzo(a)anthracene	ug/L	0.1	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Benzo(a)pyrene	ug/L		0.1 U	0.1 U	0.1 U	0.1 U	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	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	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	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	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	0.1 U	0.1 U	0.1 U	0.1 U
Non-Carcinogenic PAHs										
Acenaphthene	ug/L	160	0.1 U	0.1 U	0.1 U	0.1 U	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	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	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	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	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	0.1 U	0.1 U	0.1 U	0.1 U
Naphthalene	ug/L		0.1 U	0.1 U	0.1 U	0.1 U	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	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	0.1 U	0.1 U	0.1 U	0.1 U

*Cleanup Levels based on MTCA Method A.

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 cleanup level represents the total concentration that all carcinogenic PAHs must meet using the toxicity equivalency method in WAC 173-340-708(8). See Table 3 for PAHs and text if carcinogenic PAHs detected in groundwater samples for this event.

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



- Long-Term Monitoring Well Network with Water Table Elevation in Feet
- Water Table Elevation Contours in Feet NAVD88
- ➔ Groundwater Flow Direction



Figure 1
VCP Long-Term Monitoring Well Network & 2020 Q3 Water Table Contours

Birds Eye
 2020 Q3 Monitoring Report

pgg



Analytical Resources, Incorporated
Analytical Chemists and Consultants

02 November 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)
20I0119

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.

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.





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

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

Reported:
02-Nov-2020 09:47

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-12S	20I0119-01	Water	09-Sep-2020 11:40	10-Sep-2020 08:02
MW-12D	20I0119-02	Water	09-Sep-2020 12:30	10-Sep-2020 08:02
MW-22S	20I0119-03	Water	09-Sep-2020 11:50	10-Sep-2020 08:02
Trip Blank	20I0119-04	Water	09-Sep-2020 11:40	10-Sep-2020 08:02



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

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

Reported:
02-Nov-2020 09:47

Work Order Case Narrative

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 limits.

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

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 limits.

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

The surrogate percent recoveries were within control limits.



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

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

Reported:
02-Nov-2020 09:47

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

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

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

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 limits.



WORK ORDER

20I0119

Client: Pacific Groundwater Group

Project Manager: Kelly Bottem

Project: Birds Eye

Project Number: Birds Eye

Preservation Confirmation

Container ID	Container Type	pH
20I0119-01 A	Glass NM, Amber, 500 mL	
20I0119-01 B	Glass NM, Amber, 500 mL	
20I0119-01 C	Glass NM, Amber, 500 mL	
20I0119-01 D	Glass NM, Amber, 500 mL	
20I0119-01 E	VOA Vial, Clear, 40 mL, HCL	Bubble
20I0119-01 F	VOA Vial, Clear, 40 mL, HCL	Bubble
20I0119-01 G	VOA Vial, Clear, 40 mL, HCL	
20I0119-01 H	VOA Vial, Clear, 40 mL, HCL	
20I0119-01 I	VOA Vial, Clear, 40 mL, HCL	
20I0119-02 A	Glass NM, Amber, 500 mL	
20I0119-02 AA	VOA Vial, Clear, 40 mL, HCL	
20I0119-02 B	Glass NM, Amber, 500 mL	
20I0119-02 C	Glass NM, Amber, 500 mL	
20I0119-02 D	Glass NM, Amber, 500 mL	
20I0119-02 E	Glass NM, Amber, 500 mL	
20I0119-02 F	Glass NM, Amber, 500 mL	
20I0119-02 G	Glass NM, Amber, 500 mL	
20I0119-02 H	Glass NM, Amber, 500 mL	
20I0119-02 I	Glass NM, Amber, 500 mL	
20I0119-02 J	Glass NM, Amber, 500 mL	
20I0119-02 K	Glass NM, Amber, 500 mL	
20I0119-02 L	Glass NM, Amber, 500 mL	
20I0119-02 M	VOA Vial, Clear, 40 mL, HCL	
20I0119-02 N	VOA Vial, Clear, 40 mL, HCL	
20I0119-02 O	VOA Vial, Clear, 40 mL, HCL	
20I0119-02 P	VOA Vial, Clear, 40 mL, HCL	
20I0119-02 Q	VOA Vial, Clear, 40 mL, HCL	
20I0119-02 R	VOA Vial, Clear, 40 mL, HCL	
20I0119-02 S	VOA Vial, Clear, 40 mL, HCL	
20I0119-02 T	VOA Vial, Clear, 40 mL, HCL	
20I0119-02 U	VOA Vial, Clear, 40 mL, HCL	
20I0119-02 V	VOA Vial, Clear, 40 mL, HCL	
20I0119-02 W	VOA Vial, Clear, 40 mL, HCL	
20I0119-02 X	VOA Vial, Clear, 40 mL, HCL	
20I0119-02 Y	VOA Vial, Clear, 40 mL, HCL	



WORK ORDER

20I0119

Client: Pacific Groundwater Group

Project Manager: Kelly Bottem

Project: Birds Eye

Project Number: Birds Eye

20I0119-02 Z	VOA Vial, Clear, 40 mL, HCL
20I0119-03 A	Glass NM, Amber, 500 mL
20I0119-03 B	Glass NM, Amber, 500 mL
20I0119-03 C	Glass NM, Amber, 500 mL
20I0119-03 D	Glass NM, Amber, 500 mL
20I0119-03 E	VOA Vial, Clear, 40 mL, HCL
20I0119-03 F	VOA Vial, Clear, 40 mL, HCL
20I0119-03 G	VOA Vial, Clear, 40 mL, HCL
20I0119-03 H	VOA Vial, Clear, 40 mL, HCL
20I0119-03 I	VOA Vial, Clear, 40 mL, HCL
20I0119-04 A	VOA Vial, Clear, 40 mL, HCL
20I0119-04 B	VOA Vial, Clear, 40 mL, HCL

Bubble

Preservation Confirmed By

Date



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PGG
COC No(s): _____ NA
Assigned ARI Job No: 20J0119

Project Name: Birds Eye
Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____
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 0802 4.9
If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: DOO5206
Cooler Accepted by: KD Date: 9/10/20 Time: 0802

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO
What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____
Was sufficient ice used (if appropriate)? NA YES NO
How were bottles sealed in plastic bags? Individually Grouped Not
Did all bottles arrive in good condition (unbroken)? YES NO
Were all bottle labels complete and legible? YES NO
Did the number of containers listed on COC match with the number of containers received? YES NO
Did all bottle labels and tags agree with custody papers? YES NO
Were all bottles used correct for the requested analyses? YES NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO
Were all VOC vials free of air bubbles? NA YES NO
Was sufficient amount of sample sent in each bottle? YES NO
Date VOC Trip Blank was made at ARI: NA 09/05/2020
Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: JSW Date: _____ Time: _____ Labels checked by: _____

**** 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 preservation sheet, lab to determine sizes.

By: JSW Date: 09/10/2020



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

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

Reported:
02-Nov-2020 09:47

MW-12S
20I0119-01 (Water)

Volatile Organic Compounds

Method: EPA 8260D

Sampled: 09/09/2020 11:40

Instrument: NT3 Analyst: PKC

Analyzed: 09/11/2020 18:28

Sample Preparation:

Preparation Method: EPA 5030C (Purge and Trap)

Extract ID: 20I0119-01 F

Preparation Batch: BII0284

Sample Size: 10 mL

Prepared: 09/11/2020

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 %	95.8	%	
Surrogate: Toluene-d8			80-120 %	99.1	%	
Surrogate: 4-Bromofluorobenzene			80-120 %	104	%	
Surrogate: 1,2-Dichlorobenzene-d4			80-120 %	99.5	%	



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Reported:
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MW-12S
20I0119-01 (Water)

Volatile Organic Compounds

Method: NWTPHg	Sampled: 09/09/2020 11:40
Instrument: NT3 Analyst: PKC	Analyzed: 09/11/2020 18:28
Sample Preparation:	Preparation Method: EPA 5030C (Purge and Trap)
	Preparation Batch: BII0284
	Sample Size: 10 mL
	Prepared: 09/11/2020
	Final Volume: 10 mL
	Extract ID: 20I0119-01 F

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 %	99.1	%	
Surrogate: 4-Bromofluorobenzene			80-120 %	104	%	



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Reported:
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MW-12S
20I0119-01 (Water)

Semivolatile Organic Compounds - SIM

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

Sampled: 09/09/2020 11:40

Analyzed: 09/16/2020 17:26

Sample Preparation: Preparation Method: EPA 3520C (Liq Liq)
Preparation Batch: BII0334
Prepared: 09/15/2020

Sample Size: 500 mL

Final Volume: 0.5 mL

Extract ID: 20I0119-01 B 01

Sample Cleanup: Cleanup Method: Silica Gel
Cleanup Batch: CII0102
Cleaned: 16-Sep-2020

Initial Volume: 0.5 mL

Final Volume: 0.5 mL

Extract ID: 20I0119-01 B 01

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Naphthalene	91-20-3	1	0.02	0.10	ND	ug/L	U
2-Methylnaphthalene	91-57-6	1	0.03	0.10	ND	ug/L	U
1-Methylnaphthalene	90-12-0	1	0.02	0.10	ND	ug/L	U
Acenaphthylene	208-96-8	1	0.02	0.10	ND	ug/L	U
Acenaphthene	83-32-9	1	0.02	0.10	ND	ug/L	U
Dibenzofuran	132-64-9	1	0.02	0.10	ND	ug/L	U
Fluorene	86-73-7	1	0.02	0.10	ND	ug/L	U
Phenanthrene	85-01-8	1	0.02	0.10	ND	ug/L	U
Anthracene	120-12-7	1	0.02	0.10	ND	ug/L	U
Fluoranthene	206-44-0	1	0.02	0.10	ND	ug/L	U
Pyrene	129-00-0	1	0.03	0.10	ND	ug/L	U
Benzo(a)anthracene	56-55-3	1	0.05	0.10	ND	ug/L	U
Chrysene	218-01-9	1	0.06	0.10	ND	ug/L	U
Benzo(b)fluoranthene	205-99-2	1	0.09	0.10	ND	ug/L	U
Benzo(k)fluoranthene	207-08-9	1	0.09	0.10	ND	ug/L	U
Benzo(j)fluoranthene	205-82-3	1	0.03	0.10	ND	ug/L	U
Benzofluoranthenes, Total		1	0.19	0.20	ND	ug/L	U
Benzo(a)pyrene	50-32-8	1	0.06	0.10	ND	ug/L	U
Indeno(1,2,3-cd)pyrene	193-39-5	1	0.08	0.10	ND	ug/L	U
Dibenzo(a,h)anthracene	53-70-3	1	0.09	0.10	ND	ug/L	U
Benzo(g,h,i)perylene	191-24-2	1	0.07	0.10	ND	ug/L	U
Surrogate: 2-Methylnaphthalene-d10				31-120 %	58.1	%	
Surrogate: Dibenzo[a,h]anthracene-d14				10-125 %	115	%	



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Reported:
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MW-12S
20I0119-01 (Water)

Petroleum Hydrocarbons

Method: NWTPH-Dx
Instrument: FID4 Analyst: CTO

Sampled: 09/09/2020 11:40

Analyzed: 09/16/2020 11:18

Sample Preparation: Preparation Method: EPA 3510C SepF
Preparation Batch: BII0282
Prepared: 09/14/2020

Sample Size: 500 mL
Final Volume: 1 mL

Extract ID: 20I0119-01 A 01

Sample Cleanup: Cleanup Method: Silica Gel
Cleanup Batch: CII0097
Cleaned: 15-Sep-2020

Initial Volume: 1 mL
Final Volume: 1 mL

Extract ID: 20I0119-01 A 01

Sample Cleanup: Cleanup Method: Sulfuric Acid
Cleanup Batch: CII0096
Cleaned: 15-Sep-2020

Initial Volume: 1 mL
Final Volume: 1 mL

Extract ID: 20I0119-01 A 01

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 %	84.4	%	



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Reported:
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MW-12D
20I0119-02 (Water)

Volatile Organic Compounds

Method: EPA 8260D
Instrument: NT3 Analyst: PKC

Sampled: 09/09/2020 12:30

Analyzed: 09/11/2020 18:53

Sample Preparation: Preparation Method: EPA 5030C (Purge and Trap)
Preparation Batch: BII0284 Sample Size: 10 mL
Prepared: 09/11/2020 Final Volume: 10 mL

Extract ID: 20I0119-02 Q

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 %	99.6	%	
Surrogate: Toluene-d8			80-120 %	102	%	
Surrogate: 4-Bromofluorobenzene			80-120 %	99.5	%	
Surrogate: 1,2-Dichlorobenzene-d4			80-120 %	103	%	



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Project Manager: Inger Jackson

Reported:
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MW-12D
20I0119-02 (Water)

Volatile Organic Compounds

Method: NWTPHg	Sampled: 09/09/2020 12:30
Instrument: NT3 Analyst: PKC	Analyzed: 09/11/2020 18:53
Sample Preparation:	Preparation Method: EPA 5030C (Purge and Trap)
	Preparation Batch: BII0284
	Sample Size: 10 mL
	Prepared: 09/11/2020
	Final Volume: 10 mL
	Extract ID: 20I0119-02 Q

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 %	102	%	
Surrogate: 4-Bromofluorobenzene			80-120 %	99.5	%	



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Reported:
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MW-12D
20I0119-02 (Water)

Semivolatile Organic Compounds - SIM

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

Sampled: 09/09/2020 12:30

Analyzed: 09/16/2020 17:52

Sample Preparation: Preparation Method: EPA 3520C (Liq Liq)
Preparation Batch: BII0334
Prepared: 09/15/2020

Sample Size: 500 mL

Final Volume: 0.5 mL

Extract ID: 20I0119-02 B 01

Sample Cleanup: Cleanup Method: Silica Gel
Cleanup Batch: CII0102
Cleaned: 16-Sep-2020

Initial Volume: 0.5 mL

Final Volume: 0.5 mL

Extract ID: 20I0119-02 B 01

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Naphthalene	91-20-3	1	0.02	0.10	ND	ug/L	U
2-Methylnaphthalene	91-57-6	1	0.03	0.10	ND	ug/L	U
1-Methylnaphthalene	90-12-0	1	0.02	0.10	ND	ug/L	U
Acenaphthylene	208-96-8	1	0.02	0.10	ND	ug/L	U
Acenaphthene	83-32-9	1	0.02	0.10	ND	ug/L	U
Dibenzofuran	132-64-9	1	0.02	0.10	ND	ug/L	U
Fluorene	86-73-7	1	0.02	0.10	ND	ug/L	U
Phenanthrene	85-01-8	1	0.02	0.10	ND	ug/L	U
Anthracene	120-12-7	1	0.02	0.10	ND	ug/L	U
Fluoranthene	206-44-0	1	0.02	0.10	ND	ug/L	U
Pyrene	129-00-0	1	0.03	0.10	ND	ug/L	U
Benzo(a)anthracene	56-55-3	1	0.05	0.10	ND	ug/L	U
Chrysene	218-01-9	1	0.06	0.10	ND	ug/L	U
Benzo(b)fluoranthene	205-99-2	1	0.09	0.10	ND	ug/L	U
Benzo(k)fluoranthene	207-08-9	1	0.09	0.10	ND	ug/L	U
Benzo(j)fluoranthene	205-82-3	1	0.03	0.10	ND	ug/L	U
Benzofluoranthenes, Total		1	0.19	0.20	ND	ug/L	U
Benzo(a)pyrene	50-32-8	1	0.06	0.10	ND	ug/L	U
Indeno(1,2,3-cd)pyrene	193-39-5	1	0.08	0.10	ND	ug/L	U
Dibenzo(a,h)anthracene	53-70-3	1	0.09	0.10	ND	ug/L	U
Benzo(g,h,i)perylene	191-24-2	1	0.07	0.10	ND	ug/L	U
Surrogate: 2-Methylnaphthalene-d10				31-120 %	63.9	%	
Surrogate: Dibenzo[a,h]anthracene-d14				10-125 %	135	%	*



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Reported:
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MW-12D
20I0119-02 (Water)

Petroleum Hydrocarbons

Method: NWTPH-Dx			Sampled: 09/09/2020 12:30
Instrument: FID4 Analyst: CTO			Analyzed: 09/16/2020 11:38
Sample Preparation:	Preparation Method: EPA 3510C SepF		Extract ID: 20I0119-02 A 01
	Preparation Batch: BII0282	Sample Size: 500 mL	
	Prepared: 09/14/2020	Final Volume: 1 mL	
Sample Cleanup:	Cleanup Method: Silica Gel		Extract ID: 20I0119-02 A 01
	Cleanup Batch: CII0097	Initial Volume: 1 mL	
	Cleaned: 15-Sep-2020	Final Volume: 1 mL	
Sample Cleanup:	Cleanup Method: Sulfuric Acid		Extract ID:20I0119-02 A 01
	Cleanup Batch: CII0096	Initial Volume: 1 mL	
	Cleaned: 15-Sep-2020	Final Volume: 1 mL	

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 %	90.8	%	



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Reported:
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MW-22S
20I0119-03 (Water)

Volatile Organic Compounds

Method: EPA 8260D
Instrument: NT3 Analyst: PKC

Sampled: 09/09/2020 11:50

Analyzed: 09/11/2020 19:19

Sample Preparation: Preparation Method: EPA 5030C (Purge and Trap)
Preparation Batch: BII0284 Sample Size: 10 mL
Prepared: 09/11/2020 Final Volume: 10 mL

Extract ID: 20I0119-03 G

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Benzene	71-43-2	1	0.20	ND	ug/L	U
Toluene	108-88-3	1	0.20	ND	ug/L	U
Ethylbenzene	100-41-4	1	0.20	ND	ug/L	U
m,p-Xylene	179601-23-1	1	0.40	ND	ug/L	U
o-Xylene	95-47-6	1	0.20	ND	ug/L	U
Surrogate: 1,2-Dichloroethane-d4			80-129 %	108	%	
Surrogate: Toluene-d8			80-120 %	98.0	%	
Surrogate: 4-Bromofluorobenzene			80-120 %	103	%	
Surrogate: 1,2-Dichlorobenzene-d4			80-120 %	105	%	



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Reported:
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MW-22S
20I0119-03 (Water)

Volatile Organic Compounds

Method: NWTPHg	Sampled: 09/09/2020 11:50
Instrument: NT3 Analyst: PKC	Analyzed: 09/11/2020 19:19
Sample Preparation:	Preparation Method: EPA 5030C (Purge and Trap) Extract ID: 20I0119-03 G
	Preparation Batch: BII0284 Sample Size: 10 mL
	Prepared: 09/11/2020 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 %	98.0	%	
Surrogate: 4-Bromofluorobenzene			80-120 %	103	%	



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Reported:
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MW-22S
20I0119-03 (Water)

Semivolatile Organic Compounds - SIM

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

Sampled: 09/09/2020 11:50

Analyzed: 09/16/2020 19:09

Sample Preparation: Preparation Method: EPA 3520C (Liq Liq)
Preparation Batch: BII0334
Prepared: 09/15/2020

Sample Size: 500 mL

Final Volume: 0.5 mL

Extract ID: 20I0119-03 B 01

Sample Cleanup: Cleanup Method: Silica Gel
Cleanup Batch: CII0102
Cleaned: 16-Sep-2020

Initial Volume: 0.5 mL

Final Volume: 0.5 mL

Extract ID: 20I0119-03 B 01

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Naphthalene	91-20-3	1	0.02	0.10	ND	ug/L	U
2-Methylnaphthalene	91-57-6	1	0.03	0.10	ND	ug/L	U
1-Methylnaphthalene	90-12-0	1	0.02	0.10	ND	ug/L	U
Acenaphthylene	208-96-8	1	0.02	0.10	ND	ug/L	U
Acenaphthene	83-32-9	1	0.02	0.10	ND	ug/L	U
Dibenzofuran	132-64-9	1	0.02	0.10	ND	ug/L	U
Fluorene	86-73-7	1	0.02	0.10	ND	ug/L	U
Phenanthrene	85-01-8	1	0.02	0.10	ND	ug/L	U
Anthracene	120-12-7	1	0.02	0.10	ND	ug/L	U
Fluoranthene	206-44-0	1	0.02	0.10	ND	ug/L	U
Pyrene	129-00-0	1	0.03	0.10	ND	ug/L	U
Benzo(a)anthracene	56-55-3	1	0.05	0.10	ND	ug/L	U
Chrysene	218-01-9	1	0.06	0.10	ND	ug/L	U
Benzo(b)fluoranthene	205-99-2	1	0.09	0.10	ND	ug/L	U
Benzo(k)fluoranthene	207-08-9	1	0.09	0.10	ND	ug/L	U
Benzo(j)fluoranthene	205-82-3	1	0.03	0.10	ND	ug/L	U
Benzofluoranthenes, Total		1	0.19	0.20	ND	ug/L	U
Benzo(a)pyrene	50-32-8	1	0.06	0.10	ND	ug/L	U
Indeno(1,2,3-cd)pyrene	193-39-5	1	0.08	0.10	ND	ug/L	U
Dibenzo(a,h)anthracene	53-70-3	1	0.09	0.10	ND	ug/L	U
Benzo(g,h,i)perylene	191-24-2	1	0.07	0.10	ND	ug/L	U
Surrogate: 2-Methylnaphthalene-d10				31-120 %	65.5	%	
Surrogate: Dibenzo[a,h]anthracene-d14				10-125 %	125	%	



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Reported:
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MW-22S
20I0119-03 (Water)

Petroleum Hydrocarbons

Method: NWTPH-Dx
Instrument: FID4 Analyst: CTO

Sampled: 09/09/2020 11:50

Analyzed: 09/16/2020 12:37

Sample Preparation: Preparation Method: EPA 3510C SepF
Preparation Batch: BII0282
Prepared: 09/14/2020

Sample Size: 500 mL
Final Volume: 1 mL

Extract ID: 20I0119-03 A 01

Sample Cleanup: Cleanup Method: Silica Gel
Cleanup Batch: CII0097
Cleaned: 15-Sep-2020

Initial Volume: 1 mL
Final Volume: 1 mL

Extract ID: 20I0119-03 A 01

Sample Cleanup: Cleanup Method: Sulfuric Acid
Cleanup Batch: CII0096
Cleaned: 15-Sep-2020

Initial Volume: 1 mL
Final Volume: 1 mL

Extract ID: 20I0119-03 A 01

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 %	88.1	%	



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Reported:
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Trip Blank
20I0119-04 (Water)

Volatile Organic Compounds

Method: EPA 8260D

Sampled: 09/09/2020 11:40

Instrument: NT3 Analyst: PKC

Analyzed: 09/11/2020 12:43

Sample Preparation:

Preparation Method: EPA 5030C (Purge and Trap)

Extract ID: 20I0119-04 B

Preparation Batch: BII0284

Sample Size: 10 mL

Prepared: 09/11/2020

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 %	102	%	
Surrogate: Toluene-d8			80-120 %	94.9	%	
Surrogate: 4-Bromofluorobenzene			80-120 %	95.9	%	
Surrogate: 1,2-Dichlorobenzene-d4			80-120 %	107	%	



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Reported:
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Trip Blank
20I0119-04 (Water)

Volatile Organic Compounds

Method: NWTPHg

Sampled: 09/09/2020 11:40

Instrument: NT3 Analyst: PKC

Analyzed: 09/11/2020 12:43

Sample Preparation:

Preparation Method: EPA 5030C (Purge and Trap)

Extract ID: 20I0119-04 B

Preparation Batch: BII0284

Sample Size: 10 mL

Prepared: 09/11/2020

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 %	94.9	%	
Surrogate: 4-Bromofluorobenzene			80-120 %	95.9	%	



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02-Nov-2020 09:47

Volatile Organic Compounds - Quality Control

Batch BII0284 - EPA 5030C (Purge and Trap)

Instrument: NT3 Analyst: PKC

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BII0284-BLK1) Prepared: 11-Sep-2020 Analyzed: 11-Sep-2020 11:25										
Benzene	ND	0.20	ug/L							U
Toluene	ND	0.20	ug/L							U
Ethylbenzene	ND	0.20	ug/L							U
m,p-Xylene	ND	0.40	ug/L							U
o-Xylene	ND	0.20	ug/L							U
Surrogate: 1,2-Dichloroethane-d4	4.95		ug/L	5.00		99.0	80-129			
Surrogate: Toluene-d8	4.88		ug/L	5.00		97.6	80-120			
Surrogate: 4-Bromofluorobenzene	4.84		ug/L	5.00		96.7	80-120			
Surrogate: 1,2-Dichlorobenzene-d4	4.89		ug/L	5.00		97.8	80-120			
Blank (BII0284-BLK2) Prepared: 11-Sep-2020 Analyzed: 11-Sep-2020 11:25										
Gasoline Range Organics (Tol-Nap)	ND	100	ug/L							U
Surrogate: Toluene-d8	4.88		ug/L	5.00		97.6	80-120			
Surrogate: 4-Bromofluorobenzene	4.84		ug/L	5.00		96.7	80-120			
LCS (BII0284-BS1) Prepared: 11-Sep-2020 Analyzed: 11-Sep-2020 09:41										
Benzene	9.81	0.20	ug/L	10.0		98.1	80-120			
Toluene	9.81	0.20	ug/L	10.0		98.1	80-120			
Ethylbenzene	9.63	0.20	ug/L	10.0		96.3	80-120			
m,p-Xylene	19.7	0.40	ug/L	20.0		98.7	80-121			
o-Xylene	9.69	0.20	ug/L	10.0		96.9	80-121			
Surrogate: 1,2-Dichloroethane-d4	4.56		ug/L	5.00		91.2	80-129			
Surrogate: Toluene-d8	5.04		ug/L	5.00		101	80-120			
Surrogate: 4-Bromofluorobenzene	4.92		ug/L	5.00		98.3	80-120			
Surrogate: 1,2-Dichlorobenzene-d4	5.05		ug/L	5.00		101	80-120			
LCS (BII0284-BS2) Prepared: 11-Sep-2020 Analyzed: 11-Sep-2020 10:33										
Gasoline Range Organics (Tol-Nap)	904	100	ug/L	1000		90.4	72-128			
Surrogate: Toluene-d8	4.95		ug/L	5.00		99.1	80-120			
Surrogate: 4-Bromofluorobenzene	5.23		ug/L	5.00		105	80-120			
LCS Dup (BII0284-BSD1) Prepared: 11-Sep-2020 Analyzed: 11-Sep-2020 10:07										
Benzene	10.3	0.20	ug/L	10.0		103	80-120	4.83	30	
Toluene	10.4	0.20	ug/L	10.0		104	80-120	5.55	30	



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

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

Reported:
02-Nov-2020 09:47

Volatile Organic Compounds - Quality Control

Batch BII0284 - EPA 5030C (Purge and Trap)

Instrument: NT3 Analyst: PKC

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS Dup (BII0284-BSD1) Prepared: 11-Sep-2020 Analyzed: 11-Sep-2020 10:07										
Ethylbenzene	10.4	0.20	ug/L	10.0		104	80-120	7.44	30	
m,p-Xylene	20.7	0.40	ug/L	20.0		104	80-121	4.87	30	
o-Xylene	10.3	0.20	ug/L	10.0		103	80-121	5.77	30	
Surrogate: 1,2-Dichloroethane-d4	5.31		ug/L	5.00		106	80-129			
Surrogate: Toluene-d8	4.89		ug/L	5.00		97.7	80-120			
Surrogate: 4-Bromofluorobenzene	4.96		ug/L	5.00		99.2	80-120			
Surrogate: 1,2-Dichlorobenzene-d4	5.16		ug/L	5.00		103	80-120			
LCS Dup (BII0284-BSD2) Prepared: 11-Sep-2020 Analyzed: 11-Sep-2020 10:59										
Gasoline Range Organics (Tol-Nap)	954	100	ug/L	1000		95.4	72-128	5.39	30	
Surrogate: Toluene-d8	4.98		ug/L	5.00		99.6	80-120			
Surrogate: 4-Bromofluorobenzene	5.12		ug/L	5.00		102	80-120			
Matrix Spike (BII0284-MS1) Source: 20I0119-02 Prepared: 11-Sep-2020 Analyzed: 11-Sep-2020 20:10										
Benzene	9.91	0.20	ug/L	10.0	ND	99.1	80-120			
Toluene	9.97	0.20	ug/L	10.0	ND	99.7	80-120			
Ethylbenzene	10.3	0.20	ug/L	10.0	ND	103	80-120			
m,p-Xylene	20.9	0.40	ug/L	20.0	ND	104	80-121			
o-Xylene	10.2	0.20	ug/L	10.0	ND	102	80-121			
Surrogate: 1,2-Dichloroethane-d4	4.88		ug/L	5.00	4.98	97.5	80-129			
Surrogate: Toluene-d8	4.95		ug/L	5.00	5.09	99.0	80-120			
Surrogate: 4-Bromofluorobenzene	5.36		ug/L	5.00	4.98	107	80-120			
Surrogate: 1,2-Dichlorobenzene-d4	5.14		ug/L	5.00	5.16	103	80-120			
Recovery limits for target analytes in MS/MSD QC samples are advisory only.										
Matrix Spike (BII0284-MS2) Source: 20I0119-02 Prepared: 11-Sep-2020 Analyzed: 11-Sep-2020 21:00										
Gasoline Range Organics (Tol-Nap)	842	100	ug/L	1000	ND	82.8	72-128			
Surrogate: Toluene-d8	5.07		ug/L	5.00	5.09	101	80-120			
Surrogate: 4-Bromofluorobenzene	5.11		ug/L	5.00	4.98	102	80-120			
Recovery limits for target analytes in MS/MSD QC samples are advisory only.										
Matrix Spike Dup (BII0284-MSD1) Source: 20I0119-02 Prepared: 11-Sep-2020 Analyzed: 11-Sep-2020 20:35										
Benzene	10.0	0.20	ug/L	10.0	ND	100	80-120	1.26	30	
Toluene	10.2	0.20	ug/L	10.0	ND	102	80-120	2.42	30	



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Volatile Organic Compounds - Quality Control

Batch BII0284 - EPA 5030C (Purge and Trap)

Instrument: NT3 Analyst: PKC

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Matrix Spike Dup (BII0284-MSD1)		Source: 20I0119-02		Prepared: 11-Sep-2020		Analyzed: 11-Sep-2020 20:35				
Ethylbenzene	10.3	0.20	ug/L	10.0	ND	103	80-120	0.07	30	
m,p-Xylene	20.5	0.40	ug/L	20.0	ND	102	80-121	1.90	30	
o-Xylene	10.1	0.20	ug/L	10.0	ND	101	80-121	0.68	30	
Surrogate: 1,2-Dichloroethane-d4	4.95		ug/L	5.00	4.98	99.0	80-129			
Surrogate: Toluene-d8	4.90		ug/L	5.00	5.09	98.0	80-120			
Surrogate: 4-Bromofluorobenzene	5.19		ug/L	5.00	4.98	104	80-120			
Surrogate: 1,2-Dichlorobenzene-d4	5.22		ug/L	5.00	5.16	104	80-120			

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

Matrix Spike Dup (BII0284-MSD2)		Source: 20I0119-02		Prepared: 11-Sep-2020		Analyzed: 11-Sep-2020 21:26				
Gasoline Range Organics (Tol-Nap)	864	100	ug/L	1000	ND	85.0	72-128	2.53	30	
Surrogate: Toluene-d8	5.00		ug/L	5.00	5.09	99.9	80-120			
Surrogate: 4-Bromofluorobenzene	5.19		ug/L	5.00	4.98	104	80-120			

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



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

Reported:
02-Nov-2020 09:47

Semivolatile Organic Compounds - SIM - Quality Control

Batch BII0334 - EPA 3520C (Liq Liq)

Instrument: NT8 Analyst: JZ

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BII0334-BLK1)											
						Prepared: 15-Sep-2020 Analyzed: 16-Sep-2020 16:34					
Naphthalene	ND	0.02	0.10	ug/L							U
2-Methylnaphthalene	ND	0.03	0.10	ug/L							U
1-Methylnaphthalene	ND	0.02	0.10	ug/L							U
Acenaphthylene	ND	0.02	0.10	ug/L							U
Acenaphthene	ND	0.02	0.10	ug/L							U
Dibenzofuran	ND	0.02	0.10	ug/L							U
Fluorene	ND	0.02	0.10	ug/L							U
Phenanthrene	ND	0.02	0.10	ug/L							U
Anthracene	ND	0.02	0.10	ug/L							U
Fluoranthene	ND	0.02	0.10	ug/L							U
Pyrene	ND	0.03	0.10	ug/L							U
Benzo(a)anthracene	ND	0.05	0.10	ug/L							U
Chrysene	ND	0.06	0.10	ug/L							U
Benzo(b)fluoranthene	ND	0.09	0.10	ug/L							U
Benzo(k)fluoranthene	ND	0.09	0.10	ug/L							U
Benzo(j)fluoranthene	ND	0.03	0.10	ug/L							U
Benzofluoranthenes, Total	ND	0.19	0.20	ug/L							U
Benzo(a)pyrene	ND	0.06	0.10	ug/L							U
Indeno(1,2,3-cd)pyrene	ND	0.08	0.10	ug/L							U
Dibenzo(a,h)anthracene	ND	0.09	0.10	ug/L							U
Benzo(g,h,i)perylene	ND	0.07	0.10	ug/L							U
Surrogate: 2-Methylnaphthalene-d10	1.90			ug/L	3.00		63.2	31-120			
Surrogate: Dibenzo[a,h]anthracene-d14	2.84			ug/L	3.00		94.7	10-125			

LCS (BII0334-BS1)											
						Prepared: 15-Sep-2020 Analyzed: 16-Sep-2020 17:00					
Naphthalene	1.48	0.02	0.10	ug/L	3.00		49.2	33-120			
2-Methylnaphthalene	1.49	0.03	0.10	ug/L	3.00		49.6	29-120			
1-Methylnaphthalene	1.52	0.02	0.10	ug/L	3.00		50.6	37-120			
Acenaphthylene	1.26	0.02	0.10	ug/L	3.00		41.9	32-120			
Acenaphthene	1.57	0.02	0.10	ug/L	3.00		52.3	38-120			
Dibenzofuran	1.71	0.02	0.10	ug/L	3.00		56.9	38-120			
Fluorene	1.74	0.02	0.10	ug/L	3.00		57.8	41-120			
Phenanthrene	1.88	0.02	0.10	ug/L	3.00		62.7	49-120			
Anthracene	1.66	0.02	0.10	ug/L	3.00		55.3	39-120			
Fluoranthene	2.20	0.02	0.10	ug/L	3.00		73.5	48-120			



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Semivolatile Organic Compounds - SIM - Quality Control

Batch BII0334 - EPA 3520C (Liq Liq)

Instrument: NT8 Analyst: JZ

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS (BII0334-BS1)											
						Prepared: 15-Sep-2020 Analyzed: 16-Sep-2020 17:00					
Pyrene	2.11	0.03	0.10	ug/L	3.00		70.2	48-120			
Benzo(a)anthracene	2.12	0.05	0.10	ug/L	3.00		70.5	37-120			
Chrysene	2.28	0.06	0.10	ug/L	3.00		76.0	48-120			
Benzo(b)fluoranthene	2.97	0.09	0.10	ug/L	3.00		99.1	38-128			
Benzo(k)fluoranthene	2.75	0.09	0.10	ug/L	3.00		91.7	36-130			
Benzo(j)fluoranthene	2.66	0.03	0.10	ug/L	3.00		88.8	49-120			
Benzofluoranthenes, Total	8.36	0.19	0.20	ug/L	9.00		92.9	46-120			
Benzo(a)pyrene	2.25	0.06	0.10	ug/L	3.00		74.8	25-120			
Indeno(1,2,3-cd)pyrene	3.27	0.08	0.10	ug/L	3.00		109	32-120			Q
Dibenzo(a,h)anthracene	3.44	0.09	0.10	ug/L	3.00		115	21-120			
Benzo(g,h,i)perylene	3.60	0.07	0.10	ug/L	3.00		120	28-120			Q
Surrogate: 2-Methylnaphthalene-d10	1.74			ug/L	3.00		57.9	31-120			
Surrogate: Dibenzo[a,h]anthracene-d14	3.56			ug/L	3.00		119	10-125			
Matrix Spike (BII0334-MS1)											
				Source: 20I0119-02		Prepared: 15-Sep-2020 Analyzed: 16-Sep-2020 18:17					
Naphthalene	1.77	0.02	0.10	ug/L	3.00	ND	58.8	33-120			
2-Methylnaphthalene	1.84	0.03	0.10	ug/L	3.00	ND	61.4	29-120			
1-Methylnaphthalene	1.86	0.02	0.10	ug/L	3.00	ND	61.9	37-120			
Acenaphthylene	1.59	0.02	0.10	ug/L	3.00	ND	52.9	32-120			
Acenaphthene	1.85	0.02	0.10	ug/L	3.00	ND	61.7	38-120			
Dibenzofuran	1.98	0.02	0.10	ug/L	3.00	ND	65.9	38-120			
Fluorene	1.98	0.02	0.10	ug/L	3.00	ND	66.0	41-120			
Phenanthrene	2.13	0.02	0.10	ug/L	3.00	ND	70.9	49-120			
Anthracene	1.96	0.02	0.10	ug/L	3.00	ND	65.4	39-120			
Fluoranthene	2.39	0.02	0.10	ug/L	3.00	ND	79.6	48-120			
Pyrene	2.27	0.03	0.10	ug/L	3.00	ND	75.8	48-120			
Benzo(a)anthracene	2.31	0.05	0.10	ug/L	3.00	ND	77.0	37-120			
Chrysene	2.34	0.06	0.10	ug/L	3.00	ND	78.1	48-120			
Benzo(b)fluoranthene	2.69	0.09	0.10	ug/L	3.00	ND	89.7	38-128			
Benzo(k)fluoranthene	2.61	0.09	0.10	ug/L	3.00	ND	87.1	36-130			
Benzo(j)fluoranthene	2.55	0.03	0.10	ug/L	3.00	ND	85.1	49-120			
Benzofluoranthenes, Total	7.84	0.19	0.20	ug/L	9.00	ND	87.1	46-120			
Benzo(a)pyrene	2.37	0.06	0.10	ug/L	3.00	ND	78.9	25-120			
Indeno(1,2,3-cd)pyrene	3.19	0.08	0.10	ug/L	3.00	ND	106	32-120			Q
Dibenzo(a,h)anthracene	3.27	0.09	0.10	ug/L	3.00	ND	109	21-120			



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

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

Reported:
02-Nov-2020 09:47

Semivolatile Organic Compounds - SIM - Quality Control

Batch BII0334 - EPA 3520C (Liq Liq)

Instrument: NT8 Analyst: JZ

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Matrix Spike (BII0334-MS1)		Source: 20I0119-02		Prepared: 15-Sep-2020		Analyzed: 16-Sep-2020 18:17					
Benzo(g,h,i)perylene	3.42	0.07	0.10	ug/L	3.00	ND	114	28-120			Q
Surrogate: 2-Methylnaphthalene-d10	1.97			ug/L	3.00	1.92	65.8	31-120			
Surrogate: Dibenzo[a,h]anthracene-d14	3.28			ug/L	3.00	4.04	109	10-125			

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

Matrix Spike Dup (BII0334-MSD1)		Source: 20I0119-02		Prepared: 15-Sep-2020		Analyzed: 16-Sep-2020 18:43					
Naphthalene	1.80	0.02	0.10	ug/L	3.00	ND	59.8	33-120	1.67	30	
2-Methylnaphthalene	1.87	0.03	0.10	ug/L	3.00	ND	62.3	29-120	1.50	30	
1-Methylnaphthalene	1.89	0.02	0.10	ug/L	3.00	ND	62.9	37-120	1.64	30	
Acenaphthylene	1.46	0.02	0.10	ug/L	3.00	ND	48.8	32-120	8.04	30	
Acenaphthene	1.89	0.02	0.10	ug/L	3.00	ND	62.9	38-120	1.99	30	
Dibenzofuran	2.02	0.02	0.10	ug/L	3.00	ND	67.4	38-120	2.33	30	
Fluorene	1.94	0.02	0.10	ug/L	3.00	ND	64.6	41-120	2.19	30	
Phenanthrene	2.17	0.02	0.10	ug/L	3.00	ND	72.3	49-120	1.89	30	
Anthracene	1.91	0.02	0.10	ug/L	3.00	ND	63.5	39-120	2.92	30	
Fluoranthene	2.41	0.02	0.10	ug/L	3.00	ND	80.5	48-120	1.12	30	
Pyrene	2.31	0.03	0.10	ug/L	3.00	ND	77.1	48-120	1.77	30	
Benzo(a)anthracene	2.28	0.05	0.10	ug/L	3.00	ND	75.8	37-120	1.53	30	
Chrysene	2.45	0.06	0.10	ug/L	3.00	ND	81.6	48-120	4.42	30	
Benzo(b)fluoranthene	3.20	0.09	0.10	ug/L	3.00	ND	107	38-128	17.40	30	
Benzo(k)fluoranthene	3.00	0.09	0.10	ug/L	3.00	ND	99.9	36-130	13.70	30	
Benzo(j)fluoranthene	2.99	0.03	0.10	ug/L	3.00	ND	99.6	49-120	15.70	30	
Benzofluoranthenes, Total	9.19	0.19	0.20	ug/L	9.00	ND	102	46-120	15.80	30	
Benzo(a)pyrene	2.48	0.06	0.10	ug/L	3.00	ND	82.8	25-120	4.89	30	
Indeno(1,2,3-cd)pyrene	3.57	0.08	0.10	ug/L	3.00	ND	119	32-120	11.20	30	Q
Dibenzo(a,h)anthracene	3.76	0.09	0.10	ug/L	3.00	ND	125	21-120	14.00	30	*
Benzo(g,h,i)perylene	3.96	0.07	0.10	ug/L	3.00	ND	132	28-120	14.60	30	*, Q
Surrogate: 2-Methylnaphthalene-d10	1.98			ug/L	3.00	1.92	66.1	31-120			
Surrogate: Dibenzo[a,h]anthracene-d14	3.76			ug/L	3.00	4.04	125	10-125			

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



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Project: Birds Eye
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Project Manager: Inger Jackson

Reported:
02-Nov-2020 09:47

Petroleum Hydrocarbons - Quality Control

Batch BII0282 - EPA 3510C SepF

Instrument: FID4 Analyst: CTO

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BII0282-BLK1) Prepared: 14-Sep-2020 Analyzed: 16-Sep-2020 10:20										
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	0.195		mg/L	0.225		86.5	50-150			
LCS (BII0282-BS1) Prepared: 14-Sep-2020 Analyzed: 16-Sep-2020 10:39										
Diesel Range Organics (C12-C24)	2.42	0.100	mg/L	3.00		80.7	56-120			
Surrogate: o-Terphenyl	0.220		mg/L	0.225		98.0	50-150			
LCS Dup (BII0282-BSD1) Prepared: 14-Sep-2020 Analyzed: 16-Sep-2020 10:59										
Diesel Range Organics (C12-C24)	2.34	0.100	mg/L	3.00		78.0	56-120	3.40	30	
Surrogate: o-Terphenyl	0.216		mg/L	0.225		95.9	50-150			
Matrix Spike (BII0282-MS1) Source: 20I0119-02 Prepared: 14-Sep-2020 Analyzed: 16-Sep-2020 11:58										
Diesel Range Organics (C12-C24)	2.42	0.100	mg/L	3.00	ND	79.3	56-120			
Surrogate: o-Terphenyl	0.219		mg/L	0.225	0.204	97.5	50-150			
Recovery limits for target analytes in MS/MSD QC samples are advisory only.										
Matrix Spike Dup (BII0282-MSD1) Source: 20I0119-02 Prepared: 14-Sep-2020 Analyzed: 16-Sep-2020 12:17										
Diesel Range Organics (C12-C24)	2.41	0.100	mg/L	3.00	ND	78.8	56-120	0.53	30	
Surrogate: o-Terphenyl	0.216		mg/L	0.225	0.204	95.9	50-150			
Recovery limits for target analytes in MS/MSD QC samples are advisory only.										



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Reported:
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Certified Analyses included in this Report

Analyte	Certifications
EPA 8260D in Water	
Chloromethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Chloromethane	DoD-ELAP,ADEC,NELAP,CALAP
Chloromethane	DoD-ELAP,ADEC,CALAP,WADOE
Chloromethane	DoD-ELAP,ADEC,NELAP,WADOE
Vinyl Chloride	DoD-ELAP,ADEC,NELAP,CALAP
Vinyl Chloride	DoD-ELAP,ADEC,CALAP,WADOE
Vinyl Chloride	DoD-ELAP,ADEC,NELAP,WADOE
Vinyl Chloride	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Bromomethane	DoD-ELAP,ADEC,CALAP,WADOE
Bromomethane	DoD-ELAP,ADEC,NELAP,CALAP
Bromomethane	DoD-ELAP,ADEC,NELAP,WADOE
Bromomethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Chloroethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Chloroethane	DoD-ELAP,ADEC,NELAP,CALAP
Chloroethane	DoD-ELAP,ADEC,CALAP,WADOE
Chloroethane	DoD-ELAP,ADEC,NELAP,WADOE
Trichlorofluoromethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Trichlorofluoromethane	DoD-ELAP,ADEC,CALAP,WADOE
Trichlorofluoromethane	DoD-ELAP,ADEC,NELAP,WADOE
Trichlorofluoromethane	DoD-ELAP,ADEC,NELAP,CALAP
Acrolein	DoD-ELAP,NELAP,WADOE
Acrolein	DoD-ELAP,CALAP,WADOE
Acrolein	DoD-ELAP,NELAP,CALAP,WADOE
Acrolein	DoD-ELAP,NELAP,CALAP
1,1,2-Trichloro-1,2,2-Trifluoroethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
1,1,2-Trichloro-1,2,2-Trifluoroethane	DoD-ELAP,ADEC,NELAP,CALAP
1,1,2-Trichloro-1,2,2-Trifluoroethane	DoD-ELAP,ADEC,CALAP,WADOE
1,1,2-Trichloro-1,2,2-Trifluoroethane	DoD-ELAP,ADEC,NELAP,WADOE
Acetone	DoD-ELAP,ADEC,CALAP,WADOE
Acetone	DoD-ELAP,ADEC,NELAP,CALAP
Acetone	DoD-ELAP,ADEC,NELAP,WADOE
Acetone	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
1,1-Dichloroethene	DoD-ELAP,ADEC,NELAP,WADOE
1,1-Dichloroethene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
1,1-Dichloroethene	DoD-ELAP,ADEC,CALAP,WADOE



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1,1-Dichloroethene	DoD-ELAP,ADEC,NELAP,CALAP
Iodomethane	DoD-ELAP,NELAP,WADOE
Iodomethane	DoD-ELAP,CALAP,WADOE
Iodomethane	DoD-ELAP,NELAP,CALAP
Iodomethane	DoD-ELAP,NELAP,CALAP,WADOE
Methylene Chloride	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Methylene Chloride	DoD-ELAP,ADEC,NELAP,WADOE
Methylene Chloride	DoD-ELAP,ADEC,NELAP,CALAP
Methylene Chloride	DoD-ELAP,ADEC,CALAP,WADOE
Acrylonitrile	DoD-ELAP,NELAP,CALAP,WADOE
Acrylonitrile	DoD-ELAP,NELAP,CALAP
Acrylonitrile	DoD-ELAP,CALAP,WADOE
Acrylonitrile	DoD-ELAP,NELAP,WADOE
Carbon Disulfide	DoD-ELAP,CALAP,WADOE
Carbon Disulfide	DoD-ELAP,NELAP,WADOE
Carbon Disulfide	DoD-ELAP,NELAP,CALAP
Carbon Disulfide	DoD-ELAP,NELAP,CALAP,WADOE
trans-1,2-Dichloroethene	DoD-ELAP,ADEC,NELAP,CALAP
trans-1,2-Dichloroethene	DoD-ELAP,ADEC,CALAP,WADOE
trans-1,2-Dichloroethene	DoD-ELAP,ADEC,NELAP,WADOE
trans-1,2-Dichloroethene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Vinyl Acetate	DoD-ELAP,NELAP,CALAP,WADOE
Vinyl Acetate	DoD-ELAP,NELAP,CALAP
Vinyl Acetate	DoD-ELAP,CALAP,WADOE
Vinyl Acetate	DoD-ELAP,NELAP,WADOE
1,1-Dichloroethane	DoD-ELAP,ADEC,NELAP,CALAP
1,1-Dichloroethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
1,1-Dichloroethane	DoD-ELAP,ADEC,CALAP,WADOE
1,1-Dichloroethane	DoD-ELAP,ADEC,NELAP,WADOE
2-Butanone	DoD-ELAP,NELAP,CALAP
2-Butanone	DoD-ELAP,CALAP,WADOE
2-Butanone	DoD-ELAP,NELAP,WADOE
2-Butanone	DoD-ELAP,NELAP,CALAP,WADOE
2,2-Dichloropropane	DoD-ELAP,ADEC,NELAP,WADOE
2,2-Dichloropropane	DoD-ELAP,ADEC,CALAP,WADOE
2,2-Dichloropropane	DoD-ELAP,ADEC,NELAP,CALAP
2,2-Dichloropropane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
cis-1,2-Dichloroethene	DoD-ELAP,ADEC,NELAP,WADOE
cis-1,2-Dichloroethene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE



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cis-1,2-Dichloroethene	DoD-ELAP,ADEC,CALAP,WADOE
cis-1,2-Dichloroethene	DoD-ELAP,ADEC,NELAP,CALAP
Chloroform	DoD-ELAP,ADEC,CALAP,WADOE
Chloroform	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Chloroform	DoD-ELAP,ADEC,NELAP,CALAP
Chloroform	DoD-ELAP,ADEC,NELAP,WADOE
Bromochloromethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Bromochloromethane	DoD-ELAP,ADEC,NELAP,CALAP
Bromochloromethane	DoD-ELAP,ADEC,CALAP,WADOE
Bromochloromethane	DoD-ELAP,ADEC,NELAP,WADOE
1,1,1-Trichloroethane	DoD-ELAP,ADEC,CALAP,WADOE
1,1,1-Trichloroethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
1,1,1-Trichloroethane	DoD-ELAP,ADEC,NELAP,WADOE
1,1,1-Trichloroethane	DoD-ELAP,ADEC,NELAP,CALAP
1,1-Dichloropropene	DoD-ELAP,ADEC,NELAP,WADOE
1,1-Dichloropropene	DoD-ELAP,ADEC,CALAP,WADOE
1,1-Dichloropropene	DoD-ELAP,ADEC,NELAP,CALAP
1,1-Dichloropropene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Carbon tetrachloride	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Carbon tetrachloride	DoD-ELAP,ADEC,NELAP,CALAP
Carbon tetrachloride	DoD-ELAP,ADEC,NELAP,WADOE
Carbon tetrachloride	DoD-ELAP,ADEC,CALAP,WADOE
1,2-Dichloroethane	DoD-ELAP,ADEC,NELAP,CALAP
1,2-Dichloroethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
1,2-Dichloroethane	DoD-ELAP,ADEC,CALAP,WADOE
1,2-Dichloroethane	DoD-ELAP,ADEC,NELAP,WADOE
Benzene	DoD-ELAP,ADEC,NELAP,WADOE
Benzene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Benzene	DoD-ELAP,ADEC,NELAP,CALAP
Benzene	DoD-ELAP,ADEC,CALAP,WADOE
Trichloroethene	DoD-ELAP,ADEC,NELAP,WADOE
Trichloroethene	DoD-ELAP,ADEC,CALAP,WADOE
Trichloroethene	DoD-ELAP,ADEC,NELAP,CALAP
Trichloroethene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
1,2-Dichloropropane	DoD-ELAP,ADEC,NELAP,CALAP
1,2-Dichloropropane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
1,2-Dichloropropane	DoD-ELAP,ADEC,CALAP,WADOE
1,2-Dichloropropane	DoD-ELAP,ADEC,NELAP,WADOE
Bromodichloromethane	DoD-ELAP,ADEC,NELAP,CALAP



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Bromodichloromethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Bromodichloromethane	DoD-ELAP,ADEC,CALAP,WADOE
Bromodichloromethane	DoD-ELAP,ADEC,NELAP,WADOE
Dibromomethane	DoD-ELAP,ADEC,NELAP,WADOE
Dibromomethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Dibromomethane	DoD-ELAP,ADEC,CALAP,WADOE
Dibromomethane	DoD-ELAP,ADEC,NELAP,CALAP
2-Chloroethyl vinyl ether	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
2-Chloroethyl vinyl ether	DoD-ELAP,ADEC,NELAP,CALAP
2-Chloroethyl vinyl ether	DoD-ELAP,ADEC,CALAP,WADOE
2-Chloroethyl vinyl ether	DoD-ELAP,ADEC,NELAP,WADOE
4-Methyl-2-Pentanone	DoD-ELAP,NELAP,CALAP,WADOE
4-Methyl-2-Pentanone	DoD-ELAP,NELAP,WADOE
4-Methyl-2-Pentanone	DoD-ELAP,NELAP,CALAP
4-Methyl-2-Pentanone	DoD-ELAP,CALAP,WADOE
cis-1,3-Dichloropropene	DoD-ELAP,ADEC,CALAP,WADOE
cis-1,3-Dichloropropene	DoD-ELAP,ADEC,NELAP,CALAP
cis-1,3-Dichloropropene	DoD-ELAP,ADEC,NELAP,WADOE
cis-1,3-Dichloropropene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Toluene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Toluene	DoD-ELAP,ADEC,NELAP,CALAP
Toluene	DoD-ELAP,ADEC,NELAP,WADOE
Toluene	DoD-ELAP,ADEC,CALAP,WADOE
trans-1,3-Dichloropropene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
trans-1,3-Dichloropropene	DoD-ELAP,ADEC,NELAP,CALAP
trans-1,3-Dichloropropene	DoD-ELAP,ADEC,NELAP,WADOE
trans-1,3-Dichloropropene	DoD-ELAP,ADEC,CALAP,WADOE
2-Hexanone	DoD-ELAP,NELAP,CALAP
2-Hexanone	DoD-ELAP,CALAP,WADOE
2-Hexanone	DoD-ELAP,NELAP,CALAP,WADOE
2-Hexanone	DoD-ELAP,NELAP,WADOE
1,1,2-Trichloroethane	DoD-ELAP,ADEC,CALAP,WADOE
1,1,2-Trichloroethane	DoD-ELAP,ADEC,NELAP,CALAP
1,1,2-Trichloroethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
1,1,2-Trichloroethane	DoD-ELAP,ADEC,NELAP,WADOE
1,3-Dichloropropane	DoD-ELAP,ADEC,NELAP,WADOE
1,3-Dichloropropane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
1,3-Dichloropropane	DoD-ELAP,ADEC,NELAP,CALAP
1,3-Dichloropropane	DoD-ELAP,ADEC,CALAP,WADOE



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Tetrachloroethene	DoD-ELAP,ADEC,NELAP,WADOE
Tetrachloroethene	DoD-ELAP,ADEC,CALAP,WADOE
Tetrachloroethene	DoD-ELAP,ADEC,NELAP,CALAP
Tetrachloroethene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Dibromochloromethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Dibromochloromethane	DoD-ELAP,ADEC,NELAP,WADOE
Dibromochloromethane	DoD-ELAP,ADEC,NELAP,CALAP
Dibromochloromethane	DoD-ELAP,ADEC,CALAP,WADOE
1,2-Dibromoethane	DoD-ELAP,CALAP,WADOE
1,2-Dibromoethane	DoD-ELAP,NELAP,CALAP,WADOE
1,2-Dibromoethane	DoD-ELAP,NELAP,WADOE
1,2-Dibromoethane	DoD-ELAP,NELAP,CALAP
Chlorobenzene	DoD-ELAP,ADEC,NELAP,WADOE
Chlorobenzene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Chlorobenzene	DoD-ELAP,ADEC,NELAP,CALAP
Chlorobenzene	DoD-ELAP,ADEC,CALAP,WADOE
Ethylbenzene	DoD-ELAP,ADEC,NELAP,WADOE
Ethylbenzene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Ethylbenzene	DoD-ELAP,ADEC,CALAP,WADOE
Ethylbenzene	DoD-ELAP,ADEC,NELAP,CALAP
1,1,1,2-Tetrachloroethane	DoD-ELAP,ADEC,NELAP,CALAP
1,1,1,2-Tetrachloroethane	DoD-ELAP,ADEC,CALAP,WADOE
1,1,1,2-Tetrachloroethane	DoD-ELAP,ADEC,NELAP,WADOE
1,1,1,2-Tetrachloroethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
m,p-Xylene	DoD-ELAP,ADEC,NELAP,WADOE
m,p-Xylene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
m,p-Xylene	DoD-ELAP,ADEC,NELAP,CALAP
m,p-Xylene	DoD-ELAP,ADEC,CALAP,WADOE
o-Xylene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
o-Xylene	DoD-ELAP,ADEC,NELAP,CALAP
o-Xylene	DoD-ELAP,ADEC,CALAP,WADOE
o-Xylene	DoD-ELAP,ADEC,NELAP,WADOE
Styrene	DoD-ELAP,NELAP,CALAP,WADOE
Styrene	DoD-ELAP,NELAP,CALAP
Styrene	DoD-ELAP,CALAP,WADOE
Styrene	DoD-ELAP,NELAP,WADOE
Bromoform	DoD-ELAP,NELAP,WADOE
Bromoform	DoD-ELAP,CALAP,WADOE
Bromoform	DoD-ELAP,NELAP,CALAP



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Bromoform	DoD-ELAP,NELAP,CALAP,WADOE
1,1,2,2-Tetrachloroethane	DoD-ELAP,ADEC,NELAP,CALAP
1,1,2,2-Tetrachloroethane	DoD-ELAP,ADEC,CALAP,WADOE
1,1,2,2-Tetrachloroethane	DoD-ELAP,ADEC,NELAP,WADOE
1,1,2,2-Tetrachloroethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
1,2,3-Trichloropropane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
1,2,3-Trichloropropane	DoD-ELAP,ADEC,NELAP,CALAP
1,2,3-Trichloropropane	DoD-ELAP,ADEC,CALAP,WADOE
1,2,3-Trichloropropane	DoD-ELAP,ADEC,NELAP,WADOE
trans-1,4-Dichloro 2-Butene	DoD-ELAP,ADEC,NELAP,CALAP
trans-1,4-Dichloro 2-Butene	DoD-ELAP,ADEC,CALAP,WADOE
trans-1,4-Dichloro 2-Butene	DoD-ELAP,ADEC,NELAP,WADOE
trans-1,4-Dichloro 2-Butene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
n-Propylbenzene	DoD-ELAP,NELAP,WADOE
n-Propylbenzene	DoD-ELAP,NELAP,CALAP,WADOE
n-Propylbenzene	DoD-ELAP,CALAP,WADOE
n-Propylbenzene	DoD-ELAP,NELAP,CALAP
Bromobenzene	DoD-ELAP,NELAP,CALAP
Bromobenzene	DoD-ELAP,CALAP,WADOE
Bromobenzene	DoD-ELAP,NELAP,WADOE
Bromobenzene	DoD-ELAP,NELAP,CALAP,WADOE
Isopropyl Benzene	DoD-ELAP,CALAP,WADOE
Isopropyl Benzene	DoD-ELAP,NELAP,CALAP
Isopropyl Benzene	DoD-ELAP,NELAP,WADOE
Isopropyl Benzene	DoD-ELAP,NELAP,CALAP,WADOE
2-Chlorotoluene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
2-Chlorotoluene	DoD-ELAP,ADEC,NELAP,CALAP
2-Chlorotoluene	DoD-ELAP,ADEC,CALAP,WADOE
2-Chlorotoluene	DoD-ELAP,ADEC,NELAP,WADOE
4-Chlorotoluene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
4-Chlorotoluene	DoD-ELAP,ADEC,NELAP,CALAP
4-Chlorotoluene	DoD-ELAP,ADEC,CALAP,WADOE
4-Chlorotoluene	DoD-ELAP,ADEC,NELAP,WADOE
t-Butylbenzene	DoD-ELAP,NELAP,CALAP,WADOE
t-Butylbenzene	DoD-ELAP,NELAP,WADOE
t-Butylbenzene	DoD-ELAP,NELAP,CALAP
t-Butylbenzene	DoD-ELAP,CALAP,WADOE
1,3,5-Trimethylbenzene	DoD-ELAP,NELAP,WADOE
1,3,5-Trimethylbenzene	DoD-ELAP,NELAP,CALAP,WADOE



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1,3,5-Trimethylbenzene	DoD-ELAP,CALAP,WADOE
1,3,5-Trimethylbenzene	DoD-ELAP,NELAP,CALAP
1,2,4-Trimethylbenzene	DoD-ELAP,NELAP,CALAP,WADOE
1,2,4-Trimethylbenzene	DoD-ELAP,NELAP,WADOE
1,2,4-Trimethylbenzene	DoD-ELAP,CALAP,WADOE
1,2,4-Trimethylbenzene	DoD-ELAP,NELAP,CALAP
s-Butylbenzene	DoD-ELAP,CALAP,WADOE
s-Butylbenzene	DoD-ELAP,NELAP,CALAP
s-Butylbenzene	DoD-ELAP,NELAP,WADOE
s-Butylbenzene	DoD-ELAP,NELAP,CALAP,WADOE
4-Isopropyl Toluene	DoD-ELAP,CALAP,WADOE
4-Isopropyl Toluene	DoD-ELAP,NELAP,CALAP
4-Isopropyl Toluene	DoD-ELAP,NELAP,WADOE
4-Isopropyl Toluene	DoD-ELAP,NELAP,CALAP,WADOE
1,3-Dichlorobenzene	DoD-ELAP,ADEC,CALAP,WADOE
1,3-Dichlorobenzene	DoD-ELAP,ADEC,NELAP,CALAP
1,3-Dichlorobenzene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
1,3-Dichlorobenzene	DoD-ELAP,ADEC,NELAP,WADOE
1,4-Dichlorobenzene	DoD-ELAP,ADEC,NELAP,WADOE
1,4-Dichlorobenzene	DoD-ELAP,ADEC,CALAP,WADOE
1,4-Dichlorobenzene	DoD-ELAP,ADEC,NELAP,CALAP
1,4-Dichlorobenzene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
n-Butylbenzene	DoD-ELAP,NELAP,CALAP,WADOE
n-Butylbenzene	DoD-ELAP,CALAP,WADOE
n-Butylbenzene	DoD-ELAP,NELAP,WADOE
n-Butylbenzene	DoD-ELAP,NELAP,CALAP
1,2-Dichlorobenzene	DoD-ELAP,ADEC,NELAP,CALAP
1,2-Dichlorobenzene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
1,2-Dichlorobenzene	DoD-ELAP,ADEC,NELAP,WADOE
1,2-Dichlorobenzene	DoD-ELAP,ADEC,CALAP,WADOE
1,2-Dibromo-3-chloropropane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
1,2-Dibromo-3-chloropropane	DoD-ELAP,ADEC,NELAP,CALAP
1,2-Dibromo-3-chloropropane	DoD-ELAP,ADEC,NELAP,WADOE
1,2-Dibromo-3-chloropropane	DoD-ELAP,ADEC,CALAP,WADOE
1,2,4-Trichlorobenzene	DoD-ELAP,ADEC,NELAP,WADOE
1,2,4-Trichlorobenzene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
1,2,4-Trichlorobenzene	DoD-ELAP,ADEC,NELAP,CALAP
1,2,4-Trichlorobenzene	DoD-ELAP,ADEC,CALAP,WADOE
Hexachloro-1,3-Butadiene	DoD-ELAP,ADEC,NELAP,WADOE



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Hexachloro-1,3-Butadiene	DoD-ELAP,ADEC,NELAP,CALAP
Hexachloro-1,3-Butadiene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Hexachloro-1,3-Butadiene	DoD-ELAP,ADEC,CALAP,WADOE
Naphthalene	DoD-ELAP,ADEC,CALAP,WADOE
Naphthalene	DoD-ELAP,ADEC,NELAP,CALAP
Naphthalene	DoD-ELAP,ADEC,NELAP,WADOE
Naphthalene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
1,2,3-Trichlorobenzene	DoD-ELAP,ADEC,NELAP,CALAP
1,2,3-Trichlorobenzene	DoD-ELAP,ADEC,CALAP,WADOE
1,2,3-Trichlorobenzene	DoD-ELAP,ADEC,NELAP,WADOE
1,2,3-Trichlorobenzene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Dichlorodifluoromethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Dichlorodifluoromethane	DoD-ELAP,ADEC,NELAP,CALAP
Dichlorodifluoromethane	DoD-ELAP,ADEC,CALAP,WADOE
Dichlorodifluoromethane	DoD-ELAP,ADEC,NELAP,WADOE
Methyl tert-butyl Ether	DoD-ELAP,ADEC,NELAP,CALAP
Methyl tert-butyl Ether	DoD-ELAP,ADEC,CALAP,WADOE
Methyl tert-butyl Ether	DoD-ELAP,ADEC,NELAP,WADOE
Methyl tert-butyl Ether	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
n-Hexane	WADOE
n-Hexane	WADOE
n-Hexane	
n-Hexane	WADOE
2-Pentanone	
2-Pentanone	WADOE
2-Pentanone	WADOE
2-Pentanone	WADOE

EPA 8270E-SIM in Water

Naphthalene	DoD-ELAP
Naphthalene	DoD-ELAP
Naphthalene	DoD-ELAP
Naphthalene	DoD-ELAP
2-Methylnaphthalene	DoD-ELAP
2-Methylnaphthalene	DoD-ELAP
2-Methylnaphthalene	DoD-ELAP
2-Methylnaphthalene	DoD-ELAP
1-Methylnaphthalene	DoD-ELAP
1-Methylnaphthalene	DoD-ELAP
1-Methylnaphthalene	DoD-ELAP



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1-Methylnaphthalene	DoD-ELAP
2-Chloronaphthalene	DoD-ELAP
2-Chloronaphthalene	DoD-ELAP
2-Chloronaphthalene	DoD-ELAP
2-Chloronaphthalene	DoD-ELAP
Biphenyl	DoD-ELAP
Biphenyl	DoD-ELAP
Biphenyl	DoD-ELAP
Biphenyl	DoD-ELAP
2,6-Dimethylnaphthalene	DoD-ELAP
2,6-Dimethylnaphthalene	DoD-ELAP
2,6-Dimethylnaphthalene	DoD-ELAP
2,6-Dimethylnaphthalene	DoD-ELAP
Acenaphthylene	DoD-ELAP
Acenaphthylene	DoD-ELAP
Acenaphthylene	DoD-ELAP
Acenaphthylene	DoD-ELAP
Acenaphthene	DoD-ELAP
Acenaphthene	DoD-ELAP
Acenaphthene	DoD-ELAP
Acenaphthene	DoD-ELAP
Dibenzofuran	DoD-ELAP
Dibenzofuran	DoD-ELAP
Dibenzofuran	DoD-ELAP
Dibenzofuran	DoD-ELAP
2,3,5-Trimethylnaphthalene	DoD-ELAP
2,3,5-Trimethylnaphthalene	DoD-ELAP
2,3,5-Trimethylnaphthalene	DoD-ELAP
2,3,5-Trimethylnaphthalene	DoD-ELAP
Fluorene	DoD-ELAP
Fluorene	DoD-ELAP
Fluorene	DoD-ELAP
Fluorene	DoD-ELAP
Dibenzothiophene	DoD-ELAP
Dibenzothiophene	DoD-ELAP
Dibenzothiophene	DoD-ELAP
Dibenzothiophene	DoD-ELAP
Phenanthrene	DoD-ELAP
Phenanthrene	DoD-ELAP



Pacific Groundwater Group
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Seattle WA, 98102

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Phenanthrene	DoD-ELAP
Phenanthrene	DoD-ELAP
Anthracene	DoD-ELAP
Anthracene	DoD-ELAP
Anthracene	DoD-ELAP
Anthracene	DoD-ELAP
Carbazole	DoD-ELAP
Carbazole	DoD-ELAP
Carbazole	DoD-ELAP
Carbazole	DoD-ELAP
1-Methylphenanthrene	DoD-ELAP
1-Methylphenanthrene	DoD-ELAP
1-Methylphenanthrene	DoD-ELAP
1-Methylphenanthrene	DoD-ELAP
Fluoranthene	DoD-ELAP
Fluoranthene	DoD-ELAP
Fluoranthene	DoD-ELAP
Fluoranthene	DoD-ELAP
Pyrene	DoD-ELAP
Pyrene	DoD-ELAP
Pyrene	DoD-ELAP
Pyrene	DoD-ELAP
Benzo(a)anthracene	DoD-ELAP
Benzo(a)anthracene	DoD-ELAP
Benzo(a)anthracene	DoD-ELAP
Benzo(a)anthracene	DoD-ELAP
Chrysene	DoD-ELAP
Chrysene	DoD-ELAP
Chrysene	DoD-ELAP
Chrysene	DoD-ELAP
Benzo(b)fluoranthene	DoD-ELAP
Benzo(b)fluoranthene	DoD-ELAP
Benzo(b)fluoranthene	DoD-ELAP
Benzo(b)fluoranthene	DoD-ELAP
Benzo(k)fluoranthene	DoD-ELAP
Benzo(k)fluoranthene	DoD-ELAP
Benzo(k)fluoranthene	DoD-ELAP
Benzo(k)fluoranthene	DoD-ELAP
Benzo(j)fluoranthene	DoD-ELAP



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Benzo(j)fluoranthene	DoD-ELAP
Benzo(j)fluoranthene	DoD-ELAP
Benzo(j)fluoranthene	DoD-ELAP
Benzo(a)fluoranthene, Total	DoD-ELAP
Benzo(a)fluoranthene, Total	DoD-ELAP
Benzo(a)fluoranthene, Total	DoD-ELAP
Benzo(a)fluoranthene, Total	DoD-ELAP
Benzo(e)pyrene	DoD-ELAP
Benzo(e)pyrene	DoD-ELAP
Benzo(e)pyrene	DoD-ELAP
Benzo(e)pyrene	DoD-ELAP
Benzo(a)pyrene	DoD-ELAP
Benzo(a)pyrene	DoD-ELAP
Benzo(a)pyrene	DoD-ELAP
Benzo(a)pyrene	DoD-ELAP
Perylene	DoD-ELAP
Perylene	DoD-ELAP
Perylene	DoD-ELAP
Perylene	DoD-ELAP
Indeno(1,2,3-cd)pyrene	DoD-ELAP
Indeno(1,2,3-cd)pyrene	DoD-ELAP
Indeno(1,2,3-cd)pyrene	DoD-ELAP
Indeno(1,2,3-cd)pyrene	DoD-ELAP
Dibenzo(a,h)anthracene	DoD-ELAP
Dibenzo(a,h)anthracene	DoD-ELAP
Dibenzo(a,h)anthracene	DoD-ELAP
Dibenzo(a,h)anthracene	DoD-ELAP
Benzo(g,h,i)perylene	DoD-ELAP
Benzo(g,h,i)perylene	DoD-ELAP
Benzo(g,h,i)perylene	DoD-ELAP
Benzo(g,h,i)perylene	DoD-ELAP
Benzo(b)thiophene	DoD-ELAP
Benzo(b)thiophene	DoD-ELAP
Benzo(b)thiophene	DoD-ELAP
Benzo(b)thiophene	DoD-ELAP

NWTPH-Dx in Water

Diesel Range Organics (C12-C24)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C12-C24)	DoD-ELAP,NELAP
Diesel Range Organics (C12-C24)	DoD-ELAP,WADOE



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Diesel Range Organics (C12-C24)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C10-C25)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C10-C25)	DoD-ELAP,NELAP
Diesel Range Organics (C10-C25)	DoD-ELAP,WADOE
Diesel Range Organics (C10-C25)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (Tol-C18)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (Tol-C18)	DoD-ELAP,WADOE
Diesel Range Organics (Tol-C18)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (Tol-C18)	DoD-ELAP,NELAP
Diesel Range Organics (C10-C24)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C10-C24)	DoD-ELAP,WADOE
Diesel Range Organics (C10-C24)	DoD-ELAP,NELAP
Diesel Range Organics (C10-C24)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C10-C28)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C10-C28)	DoD-ELAP,WADOE
Diesel Range Organics (C10-C28)	DoD-ELAP,NELAP
Diesel Range Organics (C10-C28)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C12-C22)	DoD-ELAP
Diesel Range Organics (C12-C22)	DoD-ELAP
Diesel Range Organics (C12-C22)	DoD-ELAP
Diesel Range Organics (C12-C22)	DoD-ELAP
Diesel Range Organics (C12-C25)	DoD-ELAP
Diesel Range Organics (C12-C25)	DoD-ELAP
Diesel Range Organics (C12-C25)	DoD-ELAP
Diesel Range Organics (C12-C25)	DoD-ELAP
Motor Oil Range Organics (C24-C38)	DoD-ELAP,WADOE
Motor Oil Range Organics (C24-C38)	DoD-ELAP,NELAP
Motor Oil Range Organics (C24-C38)	DoD-ELAP,NELAP,WADOE
Motor Oil Range Organics (C24-C38)	DoD-ELAP,NELAP,WADOE
Motor Oil Range Organics (C25-C36)	DoD-ELAP,WADOE
Motor Oil Range Organics (C25-C36)	DoD-ELAP,NELAP
Motor Oil Range Organics (C25-C36)	DoD-ELAP,NELAP,WADOE
Motor Oil Range Organics (C25-C36)	DoD-ELAP,NELAP,WADOE
Motor Oil Range Organics (C24-C40)	DoD-ELAP,WADOE
Motor Oil Range Organics (C24-C40)	DoD-ELAP,NELAP,WADOE
Motor Oil Range Organics (C24-C40)	DoD-ELAP,NELAP
Motor Oil Range Organics (C24-C40)	DoD-ELAP,NELAP,WADOE
Residual Range Organics (C23-C32)	DoD-ELAP
Residual Range Organics (C23-C32)	DoD-ELAP



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



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Stoddard Range Organics (C8-C12)	DoD-ELAP,NELAP,WADOE
Stoddard Range Organics (C8-C12)	DoD-ELAP,NELAP,WADOE
Stoddard Range Organics (C8-C12)	DoD-ELAP,WADOE
Transformer Oil Range Organics (C12-C28)	DoD-ELAP,NELAP,WADOE
Transformer Oil Range Organics (C12-C28)	DoD-ELAP,WADOE
Transformer Oil Range Organics (C12-C28)	DoD-ELAP,NELAP
Transformer Oil Range Organics (C12-C28)	DoD-ELAP,NELAP,WADOE

NWTPHg in Water

Gasoline Range Organics (Tol-Nap)	WADOE,DoD-ELAP
Gasoline Range Organics (Tol-Nap)	DoD-ELAP
Gasoline Range Organics (Tol-Nap)	WADOE,DoD-ELAP
Gasoline Range Organics (Tol-Nap)	WADOE,DoD-ELAP
Gasoline Range Organics (2MP-TMB)	WADOE,DoD-ELAP
Gasoline Range Organics (2MP-TMB)	WADOE,DoD-ELAP
Gasoline Range Organics (2MP-TMB)	DoD-ELAP
Gasoline Range Organics (2MP-TMB)	WADOE,DoD-ELAP
Gasoline Range Organics (Tol-C12)	WADOE,DoD-ELAP
Gasoline Range Organics (Tol-C12)	WADOE,DoD-ELAP
Gasoline Range Organics (Tol-C12)	DoD-ELAP
Gasoline Range Organics (Tol-C12)	WADOE,DoD-ELAP
Gasoline Range Organics (C6-C10)	ADEC,DoD-ELAP
Gasoline Range Organics (C6-C10)	WADOE,ADEC,DoD-ELAP
Gasoline Range Organics (C6-C10)	WADOE,ADEC,DoD-ELAP
Gasoline Range Organics (C6-C10)	WADOE,ADEC,DoD-ELAP
Gasoline Range Organics (C5-C12)	WADOE,DoD-ELAP
Gasoline Range Organics (C5-C12)	DoD-ELAP
Gasoline Range Organics (C5-C12)	WADOE,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
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021



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Seattle WA, 98102

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

Reported:
02-Nov-2020 09:47

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
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.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

02 November 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)
20I0132

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.

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.



Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: <u>2070132</u>		Turn-around Requested: <u>Standard</u>		Page: <u>1</u> of <u> </u>		 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 Client Company: <u>Pacific Groundwater Group</u>		Phone: <u>206 329 0141</u>		Date: <u>9/10/20</u>				Ice Present? <u>Yes</u>																											
Client Contact: <u>Inger Jackson (cell 206 979 4566)</u>				No. of Coolers: <u>2</u>				Cooler Temps: <u>3.6 3.8</u>																											
Client Project Name: <u>Birds Eye</u>				<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="8">Analysis Requested</th> <th colspan="2">Notes/Comments</th> </tr> <tr> <th>NWTPH-GX</th> <th>BTEX</th> <th>NWTPH-DX w/ Silica Gel</th> <th>SIM PAHS</th> <th> </th> <th> </th> <th> </th> <th> </th> <th colspan="2" rowspan="2"> </th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>				Analysis Requested								Notes/Comments		NWTPH-GX	BTEX	NWTPH-DX w/ Silica Gel	SIM PAHS														
Analysis Requested								Notes/Comments																											
NWTPH-GX	BTEX	NWTPH-DX w/ Silica Gel	SIM PAHS																																
Client Project #: <u>JZ1001-10</u>		Samplers: <u>J. Jackson / N. Mehr</u>																																	

Sample ID	Date	Time	Matrix	No. Containers	NWTPH-GX	BTEX	NWTPH-DX w/ Silica Gel	SIM PAHS				
MW-9S	9/9/20	1600	GLW	9	2	3	2	2				
MW-9D	9/9/20	1630	↓	9	2	3	2	2				
MW-13S	9/10/20	1115		9	2	3	2	2				
MW-13D	9/10/20	1200		9	2	3	2	2				
MW-14S	9/10/20	1430		9	2	3	2	2				
MW-14D	9/10/20	1445		9	2	3	2	2				

Comments/Special Instructions	Relinquished by: (Signature) <u>[Signature]</u>	Received by: (Signature) <u>[Signature]</u>	Relinquished by: (Signature) <u>[Signature]</u>	Received by: (Signature) <u>[Signature]</u>
	Printed Name: <u>Inger Jackson</u>	Printed Name: <u>Jacob Walte</u>	Printed Name: <u> </u>	Printed Name: <u> </u>
	Company: <u>Pacific GW Group</u>	Company: <u>ARI2</u>	Company: <u> </u>	Company: <u> </u>
	Date & Time: <u>9/10/20 1634</u>	Date & Time: <u>09/10/2020 1634</u>	Date & Time: <u> </u>	Date & Time: <u> </u>

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, notwithstanding 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.



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

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

Reported:
02-Nov-2020 09:44

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-9S	20I0132-01	Water	09-Sep-2020 16:00	10-Sep-2020 16:34
MW-9D	20I0132-02	Water	09-Sep-2020 16:30	10-Sep-2020 16:34
MW-13S	20I0132-03	Water	10-Sep-2020 11:15	10-Sep-2020 16:34
MW-13D	20I0132-04	Water	10-Sep-2020 12:00	10-Sep-2020 16:34
MW-14S	20I0132-05	Water	10-Sep-2020 14:30	10-Sep-2020 16:34
MW-14D	20I0132-06	Water	10-Sep-2020 14:45	10-Sep-2020 16:34
Trip Blanks	20I0132-07	Water	09-Sep-2020 16:00	10-Sep-2020 16:34



Pacific Groundwater Group
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Project: Birds Eye
Project Number: Birds Eye
Project Manager: Inger Jackson

Reported:
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Work Order Case Narrative

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 limits.

Gasoline by NWTPH-q (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 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.

The surrogate percent recoveries were within control limits.

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



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

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.



WORK ORDER

20I0132

Client: Pacific Groundwater Group

Project Manager: Kelly Bottem

Project: Birds Eye

Project Number: Birds Eye

Preservation Confirmation

Container ID	Container Type	pH
20I0132-01 A	Glass NM, Amber, 500 mL	
20I0132-01 B	Glass NM, Amber, 500 mL	
20I0132-01 C	Glass NM, Amber, 500 mL	
20I0132-01 D	Glass NM, Amber, 500 mL	
20I0132-01 E	VOA Vial, Clear, 40 mL, HCL	
20I0132-01 F	VOA Vial, Clear, 40 mL, HCL	
20I0132-01 G	VOA Vial, Clear, 40 mL, HCL	
20I0132-01 H	VOA Vial, Clear, 40 mL, HCL	
20I0132-01 I	VOA Vial, Clear, 40 mL, HCL	
20I0132-02 A	Glass NM, Amber, 500 mL	
20I0132-02 B	Glass NM, Amber, 500 mL	
20I0132-02 C	Glass NM, Amber, 500 mL	
20I0132-02 D	Glass NM, Amber, 500 mL	
20I0132-02 E	VOA Vial, Clear, 40 mL, HCL	Bubble
20I0132-02 F	VOA Vial, Clear, 40 mL, HCL	
20I0132-02 G	VOA Vial, Clear, 40 mL, HCL	
20I0132-02 H	VOA Vial, Clear, 40 mL, HCL	
20I0132-02 I	VOA Vial, Clear, 40 mL, HCL	
20I0132-03 A	Glass NM, Amber, 500 mL	
20I0132-03 B	Glass NM, Amber, 500 mL	
20I0132-03 C	Glass NM, Amber, 500 mL	
20I0132-03 D	Glass NM, Amber, 500 mL	
20I0132-03 E	VOA Vial, Clear, 40 mL, HCL	
20I0132-03 F	VOA Vial, Clear, 40 mL, HCL	
20I0132-03 G	VOA Vial, Clear, 40 mL, HCL	
20I0132-03 H	VOA Vial, Clear, 40 mL, HCL	
20I0132-03 I	VOA Vial, Clear, 40 mL, HCL	
20I0132-04 A	Glass NM, Amber, 500 mL	
20I0132-04 B	Glass NM, Amber, 500 mL	
20I0132-04 C	Glass NM, Amber, 500 mL	
20I0132-04 D	Glass NM, Amber, 500 mL	
20I0132-04 E	VOA Vial, Clear, 40 mL, HCL	
20I0132-04 F	VOA Vial, Clear, 40 mL, HCL	
20I0132-04 G	VOA Vial, Clear, 40 mL, HCL	
20I0132-04 H	VOA Vial, Clear, 40 mL, HCL	



WORK ORDER

20I0132

Client: Pacific Groundwater Group

Project Manager: Kelly Bottem

Project: Birds Eye

Project Number: Birds Eye

20I0132-04 I	VOA Vial, Clear, 40 mL, HCL
20I0132-05 A	Glass NM, Amber, 500 mL
20I0132-05 B	Glass NM, Amber, 500 mL
20I0132-05 C	Glass NM, Amber, 500 mL
20I0132-05 D	Glass NM, Amber, 500 mL
20I0132-05 E	VOA Vial, Clear, 40 mL, HCL
20I0132-05 F	VOA Vial, Clear, 40 mL, HCL
20I0132-05 G	VOA Vial, Clear, 40 mL, HCL
20I0132-05 H	VOA Vial, Clear, 40 mL, HCL
20I0132-05 I	VOA Vial, Clear, 40 mL, HCL
20I0132-06 A	Glass NM, Amber, 500 mL
20I0132-06 B	Glass NM, Amber, 500 mL
20I0132-06 C	Glass NM, Amber, 500 mL
20I0132-06 D	Glass NM, Amber, 500 mL
20I0132-06 E	VOA Vial, Clear, 40 mL, HCL
20I0132-06 F	VOA Vial, Clear, 40 mL, HCL
20I0132-06 G	VOA Vial, Clear, 40 mL, HCL
20I0132-06 H	VOA Vial, Clear, 40 mL, HCL
20I0132-06 I	VOA Vial, Clear, 40 mL, HCL
20I0132-07 A	VOA Vial, Clear, 40 mL, HCL
20I0132-07 B	VOA Vial, Clear, 40 mL, HCL

Bubble

JBm

Preservation Confirmed By

09/11/2020

Date

Reviewed By

Date



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: PG-6
COC No(s): 2070132 NA
Assigned ARI Job No: 2070132

Project Name: B.R.D.s Eye
Delivered by: Fed-Ex UPS Courier Hand Delivered Other: NA
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 1634 3.6 3.8
If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: DOO 5206

Cooler Accepted by: JJ Date: 09/10/2020 Time: 1634

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: NA

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA 09/10/2020

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

Samples Logged by: JJ Date: 09/10/2020 Time: 1012 Labels checked by: JJ

**** 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 preservation sheet, lab to determine sizes. TSS not listed on clients COC, logged as final sample in work order

By: JJ Date: 09/10/2020



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

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

Reported:
02-Nov-2020 09:44

MW-9S
20I0132-01 (Water)

Volatile Organic Compounds

Method: EPA 8260D
Instrument: NT3 Analyst: PKC

Sampled: 09/09/2020 16:00

Analyzed: 09/11/2020 15:55

Sample Preparation: Preparation Method: EPA 5030C (Purge and Trap)
Preparation Batch: BII0284 Sample Size: 10 mL
Prepared: 09/11/2020 Final Volume: 10 mL

Extract ID: 20I0132-01 H

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 %	92.1	%	
Surrogate: Toluene-d8			80-120 %	96.2	%	
Surrogate: 4-Bromofluorobenzene			80-120 %	98.5	%	
Surrogate: 1,2-Dichlorobenzene-d4			80-120 %	100	%	



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

Reported:
02-Nov-2020 09:44

MW-9S
20I0132-01 (Water)

Volatile Organic Compounds

Method: NWTPHg	Sampled: 09/09/2020 16:00
Instrument: NT3 Analyst: PKC	Analyzed: 09/11/2020 15:55
Sample Preparation:	Preparation Method: EPA 5030C (Purge and Trap)
	Preparation Batch: BII0284
	Sample Size: 10 mL
	Prepared: 09/11/2020
	Final Volume: 10 mL
	Extract ID: 20I0132-01 H

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 %	96.2	%	
Surrogate: 4-Bromofluorobenzene			80-120 %	98.5	%	



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Project Manager: Inger Jackson

Reported:
02-Nov-2020 09:44

MW-9S
20I0132-01 (Water)

Semivolatile Organic Compounds - SIM

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

Sampled: 09/09/2020 16:00

Analyzed: 09/16/2020 19:35

Sample Preparation: Preparation Method: EPA 3520C (Liq Liq)
Preparation Batch: BII0334
Prepared: 09/15/2020

Sample Size: 500 mL
Final Volume: 0.5 mL

Extract ID: 20I0132-01 B 01

Sample Cleanup: Cleanup Method: Silica Gel
Cleanup Batch: CII0102
Cleaned: 16-Sep-2020

Initial Volume: 0.5 mL
Final Volume: 0.5 mL

Extract ID: 20I0132-01 B 01

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Naphthalene	91-20-3	1	0.02	0.10	ND	ug/L	U
2-Methylnaphthalene	91-57-6	1	0.03	0.10	ND	ug/L	U
1-Methylnaphthalene	90-12-0	1	0.02	0.10	ND	ug/L	U
Acenaphthylene	208-96-8	1	0.02	0.10	ND	ug/L	U
Acenaphthene	83-32-9	1	0.02	0.10	ND	ug/L	U
Dibenzofuran	132-64-9	1	0.02	0.10	ND	ug/L	U
Fluorene	86-73-7	1	0.02	0.10	ND	ug/L	U
Phenanthrene	85-01-8	1	0.02	0.10	ND	ug/L	U
Anthracene	120-12-7	1	0.02	0.10	ND	ug/L	U
Fluoranthene	206-44-0	1	0.02	0.10	ND	ug/L	U
Pyrene	129-00-0	1	0.03	0.10	ND	ug/L	U
Benzo(a)anthracene	56-55-3	1	0.05	0.10	ND	ug/L	U
Chrysene	218-01-9	1	0.06	0.10	ND	ug/L	U
Benzo(b)fluoranthene	205-99-2	1	0.09	0.10	ND	ug/L	U
Benzo(k)fluoranthene	207-08-9	1	0.09	0.10	ND	ug/L	U
Benzo(j)fluoranthene	205-82-3	1	0.03	0.10	ND	ug/L	U
Benzofluoranthenes, Total		1	0.19	0.20	ND	ug/L	U
Benzo(a)pyrene	50-32-8	1	0.06	0.10	ND	ug/L	U
Indeno(1,2,3-cd)pyrene	193-39-5	1	0.08	0.10	ND	ug/L	U
Dibenzo(a,h)anthracene	53-70-3	1	0.09	0.10	ND	ug/L	U
Benzo(g,h,i)perylene	191-24-2	1	0.07	0.10	ND	ug/L	U
Surrogate: 2-Methylnaphthalene-d10				31-120 %	51.4	%	
Surrogate: Dibenzo[a,h]anthracene-d14				10-125 %	114	%	



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Project: Birds Eye
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Project Manager: Inger Jackson

Reported:
02-Nov-2020 09:44

MW-9S
20I0132-01 (Water)

Petroleum Hydrocarbons

Method: NWTPH-Dx
Instrument: FID4 Analyst: CTO

Sampled: 09/09/2020 16:00

Analyzed: 09/16/2020 12:56

Sample Preparation: Preparation Method: EPA 3510C SepF
Preparation Batch: BII0282
Prepared: 09/14/2020

Sample Size: 500 mL
Final Volume: 1 mL

Extract ID: 20I0132-01 A 01

Sample Cleanup: Cleanup Method: Silica Gel
Cleanup Batch: CII0097
Cleaned: 15-Sep-2020

Initial Volume: 1 mL
Final Volume: 1 mL

Extract ID: 20I0132-01 A 01

Sample Cleanup: Cleanup Method: Sulfuric Acid
Cleanup Batch: CII0096
Cleaned: 15-Sep-2020

Initial Volume: 1 mL
Final Volume: 1 mL

Extract ID: 20I0132-01 A 01

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 %	83.7	%	



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

Reported:
02-Nov-2020 09:44

MW-9D
20I0132-02 (Water)

Volatile Organic Compounds

Method: EPA 8260D
Instrument: NT3 Analyst: PKC

Sampled: 09/09/2020 16:30

Analyzed: 09/11/2020 16:21

Sample Preparation: Preparation Method: EPA 5030C (Purge and Trap)
Preparation Batch: BII0284 Sample Size: 10 mL
Prepared: 09/11/2020 Final Volume: 10 mL

Extract ID: 20I0132-02 I

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Benzene	71-43-2	1	0.20	ND	ug/L	U
Toluene	108-88-3	1	0.20	ND	ug/L	U
Ethylbenzene	100-41-4	1	0.20	ND	ug/L	U
m,p-Xylene	179601-23-1	1	0.40	ND	ug/L	U
o-Xylene	95-47-6	1	0.20	ND	ug/L	U
Surrogate: 1,2-Dichloroethane-d4			80-129 %	98.5	%	
Surrogate: Toluene-d8			80-120 %	99.9	%	
Surrogate: 4-Bromofluorobenzene			80-120 %	101	%	
Surrogate: 1,2-Dichlorobenzene-d4			80-120 %	102	%	



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Project: Birds Eye
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Project Manager: Inger Jackson

Reported:
02-Nov-2020 09:44

MW-9D
20I0132-02 (Water)

Volatile Organic Compounds

Method: NWTPHg	Sampled: 09/09/2020 16:30
Instrument: NT3 Analyst: PKC	Analyzed: 09/11/2020 16:21
Sample Preparation:	Preparation Method: EPA 5030C (Purge and Trap)
	Preparation Batch: BII0284
	Sample Size: 10 mL
	Prepared: 09/11/2020
	Final Volume: 10 mL
	Extract ID: 20I0132-02 I

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 %	99.9	%	
Surrogate: 4-Bromofluorobenzene			80-120 %	101	%	



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Reported:
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MW-9D
20I0132-02 (Water)

Semivolatile Organic Compounds - SIM

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

Sampled: 09/09/2020 16:30

Analyzed: 09/16/2020 20:01

Sample Preparation: Preparation Method: EPA 3520C (Liq Liq)
Preparation Batch: BII0334
Prepared: 09/15/2020

Sample Size: 500 mL
Final Volume: 0.5 mL

Extract ID: 20I0132-02 B 01

Sample Cleanup: Cleanup Method: Silica Gel
Cleanup Batch: CII0102
Cleaned: 16-Sep-2020

Initial Volume: 0.5 mL
Final Volume: 0.5 mL

Extract ID: 20I0132-02 B 01

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Naphthalene	91-20-3	1	0.02	0.10	ND	ug/L	U
2-Methylnaphthalene	91-57-6	1	0.03	0.10	ND	ug/L	U
1-Methylnaphthalene	90-12-0	1	0.02	0.10	ND	ug/L	U
Acenaphthylene	208-96-8	1	0.02	0.10	ND	ug/L	U
Acenaphthene	83-32-9	1	0.02	0.10	ND	ug/L	U
Dibenzofuran	132-64-9	1	0.02	0.10	ND	ug/L	U
Fluorene	86-73-7	1	0.02	0.10	ND	ug/L	U
Phenanthrene	85-01-8	1	0.02	0.10	ND	ug/L	U
Anthracene	120-12-7	1	0.02	0.10	ND	ug/L	U
Fluoranthene	206-44-0	1	0.02	0.10	ND	ug/L	U
Pyrene	129-00-0	1	0.03	0.10	ND	ug/L	U
Benzo(a)anthracene	56-55-3	1	0.05	0.10	ND	ug/L	U
Chrysene	218-01-9	1	0.06	0.10	ND	ug/L	U
Benzo(b)fluoranthene	205-99-2	1	0.09	0.10	ND	ug/L	U
Benzo(k)fluoranthene	207-08-9	1	0.09	0.10	ND	ug/L	U
Benzo(j)fluoranthene	205-82-3	1	0.03	0.10	ND	ug/L	U
Benzofluoranthenes, Total		1	0.19	0.20	ND	ug/L	U
Benzo(a)pyrene	50-32-8	1	0.06	0.10	ND	ug/L	U
Indeno(1,2,3-cd)pyrene	193-39-5	1	0.08	0.10	ND	ug/L	U
Dibenzo(a,h)anthracene	53-70-3	1	0.09	0.10	ND	ug/L	U
Benzo(g,h,i)perylene	191-24-2	1	0.07	0.10	ND	ug/L	U
Surrogate: 2-Methylnaphthalene-d10				31-120 %	51.9	%	
Surrogate: Dibenzo[a,h]anthracene-d14				10-125 %	97.3	%	



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Project: Birds Eye
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Project Manager: Inger Jackson

Reported:
02-Nov-2020 09:44

MW-9D
20I0132-02 (Water)

Petroleum Hydrocarbons

Method: NWTPH-Dx			Sampled: 09/09/2020 16:30
Instrument: FID4 Analyst: CTO			Analyzed: 09/16/2020 13:16
Sample Preparation:	Preparation Method: EPA 3510C SepF		Extract ID: 20I0132-02 A 01
	Preparation Batch: BII0282	Sample Size: 500 mL	
	Prepared: 09/14/2020	Final Volume: 1 mL	
Sample Cleanup:	Cleanup Method: Silica Gel		Extract ID: 20I0132-02 A 01
	Cleanup Batch: CII0097	Initial Volume: 1 mL	
	Cleaned: 15-Sep-2020	Final Volume: 1 mL	
Sample Cleanup:	Cleanup Method: Sulfuric Acid		Extract ID:20I0132-02 A 01
	Cleanup Batch: CII0096	Initial Volume: 1 mL	
	Cleaned: 15-Sep-2020	Final Volume: 1 mL	

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 %	87.1	%	



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2377 Eastlake Ave. E. Suite 200
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Project: Birds Eye
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Project Manager: Inger Jackson

Reported:
02-Nov-2020 09:44

MW-13S
20I0132-03 (Water)

Volatile Organic Compounds

Method: EPA 8260D

Sampled: 09/10/2020 11:15

Instrument: NT3 Analyst: PKC

Analyzed: 09/11/2020 16:46

Sample Preparation:

Preparation Method: EPA 5030C (Purge and Trap)

Extract ID: 20I0132-03 F

Preparation Batch: BII0284

Sample Size: 10 mL

Prepared: 09/11/2020

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 %	103	%	
Surrogate: Toluene-d8			80-120 %	99.9	%	
Surrogate: 4-Bromofluorobenzene			80-120 %	95.4	%	
Surrogate: 1,2-Dichlorobenzene-d4			80-120 %	102	%	



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Reported:
02-Nov-2020 09:44

MW-13S
20I0132-03 (Water)

Volatile Organic Compounds

Method: NWTPHg	Sampled: 09/10/2020 11:15
Instrument: NT3 Analyst: PKC	Analyzed: 09/11/2020 16:46
Sample Preparation:	Preparation Method: EPA 5030C (Purge and Trap) Extract ID: 20I0132-03 F
	Preparation Batch: BII0284 Sample Size: 10 mL
	Prepared: 09/11/2020 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 %	99.9	%	
Surrogate: 4-Bromofluorobenzene			80-120 %	95.4	%	



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Reported:
02-Nov-2020 09:44

MW-13S
20I0132-03 (Water)

Semivolatile Organic Compounds - SIM

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

Sampled: 09/10/2020 11:15

Analyzed: 09/16/2020 20:27

Sample Preparation: Preparation Method: EPA 3520C (Liq Liq)
Preparation Batch: BII0334
Prepared: 09/15/2020

Sample Size: 500 mL

Final Volume: 0.5 mL

Extract ID: 20I0132-03 B 01

Sample Cleanup: Cleanup Method: Silica Gel
Cleanup Batch: CII0102
Cleaned: 16-Sep-2020

Initial Volume: 0.5 mL

Final Volume: 0.5 mL

Extract ID: 20I0132-03 B 01

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Naphthalene	91-20-3	1	0.02	0.10	ND	ug/L	U
2-Methylnaphthalene	91-57-6	1	0.03	0.10	ND	ug/L	U
1-Methylnaphthalene	90-12-0	1	0.02	0.10	ND	ug/L	U
Acenaphthylene	208-96-8	1	0.02	0.10	ND	ug/L	U
Acenaphthene	83-32-9	1	0.02	0.10	ND	ug/L	U
Dibenzofuran	132-64-9	1	0.02	0.10	ND	ug/L	U
Fluorene	86-73-7	1	0.02	0.10	ND	ug/L	U
Phenanthrene	85-01-8	1	0.02	0.10	ND	ug/L	U
Anthracene	120-12-7	1	0.02	0.10	ND	ug/L	U
Fluoranthene	206-44-0	1	0.02	0.10	ND	ug/L	U
Pyrene	129-00-0	1	0.03	0.10	ND	ug/L	U
Benzo(a)anthracene	56-55-3	1	0.05	0.10	ND	ug/L	U
Chrysene	218-01-9	1	0.06	0.10	ND	ug/L	U
Benzo(b)fluoranthene	205-99-2	1	0.09	0.10	ND	ug/L	U
Benzo(k)fluoranthene	207-08-9	1	0.09	0.10	ND	ug/L	U
Benzo(j)fluoranthene	205-82-3	1	0.03	0.10	ND	ug/L	U
Benzofluoranthenes, Total		1	0.19	0.20	ND	ug/L	U
Benzo(a)pyrene	50-32-8	1	0.06	0.10	ND	ug/L	U
Indeno(1,2,3-cd)pyrene	193-39-5	1	0.08	0.10	ND	ug/L	U
Dibenzo(a,h)anthracene	53-70-3	1	0.09	0.10	ND	ug/L	U
Benzo(g,h,i)perylene	191-24-2	1	0.07	0.10	ND	ug/L	U
Surrogate: 2-Methylnaphthalene-d10				31-120 %	48.3	%	
Surrogate: Dibenzo[a,h]anthracene-d14				10-125 %	113	%	



Pacific Groundwater Group
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Project: Birds Eye
Project Number: Birds Eye
Project Manager: Inger Jackson

Reported:
02-Nov-2020 09:44

MW-13S
20I0132-03 (Water)

Petroleum Hydrocarbons

Method: NWTPH-Dx
Instrument: FID4 Analyst: CTO

Sampled: 09/10/2020 11:15

Analyzed: 09/16/2020 13:35

Sample Preparation: Preparation Method: EPA 3510C SepF
Preparation Batch: BII0282
Prepared: 09/14/2020

Sample Size: 500 mL
Final Volume: 1 mL

Extract ID: 20I0132-03 A 01

Sample Cleanup: Cleanup Method: Silica Gel
Cleanup Batch: CII0097
Cleaned: 15-Sep-2020

Initial Volume: 1 mL
Final Volume: 1 mL

Extract ID: 20I0132-03 A 01

Sample Cleanup: Cleanup Method: Sulfuric Acid
Cleanup Batch: CII0096
Cleaned: 15-Sep-2020

Initial Volume: 1 mL
Final Volume: 1 mL

Extract ID: 20I0132-03 A 01

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 %	70.8	%	



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Project: Birds Eye
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Project Manager: Inger Jackson

Reported:
02-Nov-2020 09:44

MW-13D
20I0132-04 (Water)

Volatile Organic Compounds

Method: EPA 8260D
Instrument: NT3 Analyst: PKC

Sampled: 09/10/2020 12:00

Analyzed: 09/11/2020 17:12

Sample Preparation: Preparation Method: EPA 5030C (Purge and Trap)
Preparation Batch: BII0284 Sample Size: 10 mL
Prepared: 09/11/2020 Final Volume: 10 mL

Extract ID: 20I0132-04 F

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 %	97.4	%	
Surrogate: Toluene-d8			80-120 %	98.8	%	
Surrogate: 4-Bromofluorobenzene			80-120 %	101	%	
Surrogate: 1,2-Dichlorobenzene-d4			80-120 %	99.0	%	



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

Reported:
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MW-13D
20I0132-04 (Water)

Volatile Organic Compounds

Method: NWTPHg	Sampled: 09/10/2020 12:00
Instrument: NT3 Analyst: PKC	Analyzed: 09/11/2020 17:12
Sample Preparation:	Preparation Method: EPA 5030C (Purge and Trap)
	Preparation Batch: BII0284
	Sample Size: 10 mL
	Prepared: 09/11/2020
	Final Volume: 10 mL
	Extract ID: 20I0132-04 F

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 %	98.8	%	
Surrogate: 4-Bromofluorobenzene			80-120 %	101	%	



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Project Manager: Inger Jackson

Reported:
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MW-13D
20I0132-04 (Water)

Semivolatile Organic Compounds - SIM

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

Sampled: 09/10/2020 12:00

Analyzed: 09/16/2020 20:52

Sample Preparation: Preparation Method: EPA 3520C (Liq Liq)
Preparation Batch: BII0334
Prepared: 09/15/2020

Sample Size: 500 mL

Final Volume: 0.5 mL

Extract ID: 20I0132-04 B 01

Sample Cleanup: Cleanup Method: Silica Gel
Cleanup Batch: CII0102
Cleaned: 16-Sep-2020

Initial Volume: 0.5 mL

Final Volume: 0.5 mL

Extract ID: 20I0132-04 B 01

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Naphthalene	91-20-3	1	0.02	0.10	ND	ug/L	U
2-Methylnaphthalene	91-57-6	1	0.03	0.10	ND	ug/L	U
1-Methylnaphthalene	90-12-0	1	0.02	0.10	ND	ug/L	U
Acenaphthylene	208-96-8	1	0.02	0.10	ND	ug/L	U
Acenaphthene	83-32-9	1	0.02	0.10	ND	ug/L	U
Dibenzofuran	132-64-9	1	0.02	0.10	ND	ug/L	U
Fluorene	86-73-7	1	0.02	0.10	ND	ug/L	U
Phenanthrene	85-01-8	1	0.02	0.10	ND	ug/L	U
Anthracene	120-12-7	1	0.02	0.10	ND	ug/L	U
Fluoranthene	206-44-0	1	0.02	0.10	ND	ug/L	U
Pyrene	129-00-0	1	0.03	0.10	ND	ug/L	U
Benzo(a)anthracene	56-55-3	1	0.05	0.10	ND	ug/L	U
Chrysene	218-01-9	1	0.06	0.10	ND	ug/L	U
Benzo(b)fluoranthene	205-99-2	1	0.09	0.10	ND	ug/L	U
Benzo(k)fluoranthene	207-08-9	1	0.09	0.10	ND	ug/L	U
Benzo(j)fluoranthene	205-82-3	1	0.03	0.10	ND	ug/L	U
Benzofluoranthenes, Total		1	0.19	0.20	ND	ug/L	U
Benzo(a)pyrene	50-32-8	1	0.06	0.10	ND	ug/L	U
Indeno(1,2,3-cd)pyrene	193-39-5	1	0.08	0.10	ND	ug/L	U
Dibenzo(a,h)anthracene	53-70-3	1	0.09	0.10	ND	ug/L	U
Benzo(g,h,i)perylene	191-24-2	1	0.07	0.10	ND	ug/L	U
Surrogate: 2-Methylnaphthalene-d10				31-120 %	59.9	%	
Surrogate: Dibenzo[a,h]anthracene-d14				10-125 %	115	%	



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MW-13D
20I0132-04 (Water)

Petroleum Hydrocarbons

Method: NWTPH-Dx
Instrument: FID4 Analyst: CTO

Sampled: 09/10/2020 12:00

Analyzed: 09/16/2020 13:55

Sample Preparation: Preparation Method: EPA 3510C SepF
Preparation Batch: BII0282
Prepared: 09/14/2020

Sample Size: 500 mL
Final Volume: 1 mL

Extract ID: 20I0132-04 A 01

Sample Cleanup: Cleanup Method: Silica Gel
Cleanup Batch: CII0097
Cleaned: 15-Sep-2020

Initial Volume: 1 mL
Final Volume: 1 mL

Extract ID: 20I0132-04 A 01

Sample Cleanup: Cleanup Method: Sulfuric Acid
Cleanup Batch: CII0096
Cleaned: 15-Sep-2020

Initial Volume: 1 mL
Final Volume: 1 mL

Extract ID: 20I0132-04 A 01

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 %	88.7	%	



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Reported:
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MW-14S
20I0132-05 (Water)

Volatile Organic Compounds

Method: EPA 8260D
Instrument: NT3 Analyst: PKC

Sampled: 09/10/2020 14:30

Analyzed: 09/11/2020 17:37

Sample Preparation: Preparation Method: EPA 5030C (Purge and Trap)
Preparation Batch: BII0284 Sample Size: 10 mL
Prepared: 09/11/2020 Final Volume: 10 mL

Extract ID: 20I0132-05 G

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 %	103	%	
Surrogate: Toluene-d8			80-120 %	98.7	%	
Surrogate: 4-Bromofluorobenzene			80-120 %	106	%	
Surrogate: 1,2-Dichlorobenzene-d4			80-120 %	96.4	%	



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MW-14S
20I0132-05 (Water)

Volatile Organic Compounds

Method: NWTPHg	Sampled: 09/10/2020 14:30
Instrument: NT3 Analyst: PKC	Analyzed: 09/11/2020 17:37
Sample Preparation:	Preparation Method: EPA 5030C (Purge and Trap)
	Preparation Batch: BII0284
	Sample Size: 10 mL
	Prepared: 09/11/2020
	Final Volume: 10 mL
	Extract ID: 20I0132-05 G

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 %	98.7	%	
Surrogate: 4-Bromofluorobenzene			80-120 %	106	%	



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MW-14S
20I0132-05 (Water)

Semivolatile Organic Compounds - SIM

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

Sampled: 09/10/2020 14:30

Analyzed: 09/16/2020 21:18

Sample Preparation: Preparation Method: EPA 3520C (Liq Liq)
Preparation Batch: BII0334
Prepared: 09/15/2020

Sample Size: 500 mL

Final Volume: 0.5 mL

Extract ID: 20I0132-05 B 01

Sample Cleanup: Cleanup Method: Silica Gel
Cleanup Batch: CII0102
Cleaned: 16-Sep-2020

Initial Volume: 0.5 mL

Final Volume: 0.5 mL

Extract ID: 20I0132-05 B 01

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Naphthalene	91-20-3	1	0.02	0.10	ND	ug/L	U
2-Methylnaphthalene	91-57-6	1	0.03	0.10	ND	ug/L	U
1-Methylnaphthalene	90-12-0	1	0.02	0.10	ND	ug/L	U
Acenaphthylene	208-96-8	1	0.02	0.10	ND	ug/L	U
Acenaphthene	83-32-9	1	0.02	0.10	ND	ug/L	U
Dibenzofuran	132-64-9	1	0.02	0.10	ND	ug/L	U
Fluorene	86-73-7	1	0.02	0.10	ND	ug/L	U
Phenanthrene	85-01-8	1	0.02	0.10	ND	ug/L	U
Anthracene	120-12-7	1	0.02	0.10	ND	ug/L	U
Fluoranthene	206-44-0	1	0.02	0.10	ND	ug/L	U
Pyrene	129-00-0	1	0.03	0.10	ND	ug/L	U
Benzo(a)anthracene	56-55-3	1	0.05	0.10	ND	ug/L	U
Chrysene	218-01-9	1	0.06	0.10	ND	ug/L	U
Benzo(b)fluoranthene	205-99-2	1	0.09	0.10	ND	ug/L	U
Benzo(k)fluoranthene	207-08-9	1	0.09	0.10	ND	ug/L	U
Benzo(j)fluoranthene	205-82-3	1	0.03	0.10	ND	ug/L	U
Benzofluoranthenes, Total		1	0.19	0.20	ND	ug/L	U
Benzo(a)pyrene	50-32-8	1	0.06	0.10	ND	ug/L	U
Indeno(1,2,3-cd)pyrene	193-39-5	1	0.08	0.10	ND	ug/L	U
Dibenzo(a,h)anthracene	53-70-3	1	0.09	0.10	ND	ug/L	U
Benzo(g,h,i)perylene	191-24-2	1	0.07	0.10	ND	ug/L	U
Surrogate: 2-Methylnaphthalene-d10				31-120 %	52.7	%	
Surrogate: Dibenzo[a,h]anthracene-d14				10-125 %	110	%	



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Reported:
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MW-14S
20I0132-05 (Water)

Petroleum Hydrocarbons

Method: NWTPH-Dx			Sampled: 09/10/2020 14:30
Instrument: FID4 Analyst: CTO			Analyzed: 09/16/2020 14:15
Sample Preparation:	Preparation Method: EPA 3510C SepF		Extract ID: 20I0132-05 A 01
	Preparation Batch: BII0282	Sample Size: 500 mL	
	Prepared: 09/14/2020	Final Volume: 1 mL	
Sample Cleanup:	Cleanup Method: Silica Gel		Extract ID: 20I0132-05 A 01
	Cleanup Batch: CII0097	Initial Volume: 1 mL	
	Cleaned: 15-Sep-2020	Final Volume: 1 mL	
Sample Cleanup:	Cleanup Method: Sulfuric Acid		Extract ID:20I0132-05 A 01
	Cleanup Batch: CII0096	Initial Volume: 1 mL	
	Cleaned: 15-Sep-2020	Final Volume: 1 mL	

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 %	87.6	%	



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MW-14D
20I0132-06 (Water)

Volatile Organic Compounds

Method: EPA 8260D
Instrument: NT3 Analyst: PKC

Sampled: 09/10/2020 14:45

Analyzed: 09/11/2020 18:02

Sample Preparation: Preparation Method: EPA 5030C (Purge and Trap)
Preparation Batch: BII0284 Sample Size: 10 mL
Prepared: 09/11/2020 Final Volume: 10 mL

Extract ID: 20I0132-06 E

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 %	85.9	%	
Surrogate: Toluene-d8			80-120 %	101	%	
Surrogate: 4-Bromofluorobenzene			80-120 %	99.7	%	
Surrogate: 1,2-Dichlorobenzene-d4			80-120 %	98.7	%	



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Reported:
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MW-14D
20I0132-06 (Water)

Volatile Organic Compounds

Method: NWTPHg	Sampled: 09/10/2020 14:45
Instrument: NT3 Analyst: PKC	Analyzed: 09/11/2020 18:02
Sample Preparation:	Preparation Method: EPA 5030C (Purge and Trap) Extract ID: 20I0132-06 E
	Preparation Batch: BII0284 Sample Size: 10 mL
	Prepared: 09/11/2020 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 %	101	%	
Surrogate: 4-Bromofluorobenzene			80-120 %	99.7	%	



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MW-14D
20I0132-06 (Water)

Semivolatile Organic Compounds - SIM

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

Sampled: 09/10/2020 14:45

Analyzed: 09/16/2020 21:44

Sample Preparation: Preparation Method: EPA 3520C (Liq Liq)
Preparation Batch: BII0334
Prepared: 09/15/2020

Sample Size: 500 mL

Final Volume: 0.5 mL

Extract ID: 20I0132-06 B 01

Sample Cleanup: Cleanup Method: Silica Gel
Cleanup Batch: CII0102
Cleaned: 16-Sep-2020

Initial Volume: 0.5 mL

Final Volume: 0.5 mL

Extract ID: 20I0132-06 B 01

Analyte	CAS Number	Dilution	Detection Limit	Reporting Limit	Result	Units	Notes
Naphthalene	91-20-3	1	0.02	0.10	ND	ug/L	U
2-Methylnaphthalene	91-57-6	1	0.03	0.10	ND	ug/L	U
1-Methylnaphthalene	90-12-0	1	0.02	0.10	ND	ug/L	U
Acenaphthylene	208-96-8	1	0.02	0.10	ND	ug/L	U
Acenaphthene	83-32-9	1	0.02	0.10	ND	ug/L	U
Dibenzofuran	132-64-9	1	0.02	0.10	ND	ug/L	U
Fluorene	86-73-7	1	0.02	0.10	ND	ug/L	U
Phenanthrene	85-01-8	1	0.02	0.10	ND	ug/L	U
Anthracene	120-12-7	1	0.02	0.10	ND	ug/L	U
Fluoranthene	206-44-0	1	0.02	0.10	ND	ug/L	U
Pyrene	129-00-0	1	0.03	0.10	ND	ug/L	U
Benzo(a)anthracene	56-55-3	1	0.05	0.10	ND	ug/L	U
Chrysene	218-01-9	1	0.06	0.10	ND	ug/L	U
Benzo(b)fluoranthene	205-99-2	1	0.09	0.10	ND	ug/L	U
Benzo(k)fluoranthene	207-08-9	1	0.09	0.10	ND	ug/L	U
Benzo(j)fluoranthene	205-82-3	1	0.03	0.10	ND	ug/L	U
Benzofluoranthenes, Total		1	0.19	0.20	ND	ug/L	U
Benzo(a)pyrene	50-32-8	1	0.06	0.10	ND	ug/L	U
Indeno(1,2,3-cd)pyrene	193-39-5	1	0.08	0.10	ND	ug/L	U
Dibenzo(a,h)anthracene	53-70-3	1	0.09	0.10	ND	ug/L	U
Benzo(g,h,i)perylene	191-24-2	1	0.07	0.10	ND	ug/L	U
Surrogate: 2-Methylnaphthalene-d10				31-120 %	52.2	%	
Surrogate: Dibenzo[a,h]anthracene-d14				10-125 %	115	%	



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MW-14D
20I0132-06 (Water)

Petroleum Hydrocarbons

Method: NWTPH-Dx
Instrument: FID4 Analyst: CTO

Sampled: 09/10/2020 14:45

Analyzed: 09/16/2020 14:34

Sample Preparation: Preparation Method: EPA 3510C SepF
Preparation Batch: BII0282
Prepared: 09/14/2020

Sample Size: 500 mL
Final Volume: 1 mL

Extract ID: 20I0132-06 A 01

Sample Cleanup: Cleanup Method: Silica Gel
Cleanup Batch: CII0097
Cleaned: 15-Sep-2020

Initial Volume: 1 mL
Final Volume: 1 mL

Extract ID: 20I0132-06 A 01

Sample Cleanup: Cleanup Method: Sulfuric Acid
Cleanup Batch: CII0096
Cleaned: 15-Sep-2020

Initial Volume: 1 mL
Final Volume: 1 mL

Extract ID: 20I0132-06 A 01

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 %	82.1	%	



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Reported:
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Trip Blanks
20I0132-07 (Water)

Volatile Organic Compounds

Method: EPA 8260D
Instrument: NT3 Analyst: PKC

Sampled: 09/09/2020 16:00

Analyzed: 09/11/2020 12:17

Sample Preparation: Preparation Method: EPA 5030C (Purge and Trap)
Preparation Batch: BII0284 Sample Size: 10 mL
Prepared: 09/11/2020 Final Volume: 10 mL

Extract ID: 20I0132-07 A

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
Benzene	71-43-2	1	0.20	ND	ug/L	U
Toluene	108-88-3	1	0.20	ND	ug/L	U
Ethylbenzene	100-41-4	1	0.20	ND	ug/L	U
m,p-Xylene	179601-23-1	1	0.40	ND	ug/L	U
o-Xylene	95-47-6	1	0.20	ND	ug/L	U
Surrogate: 1,2-Dichloroethane-d4			80-129 %	106	%	
Surrogate: Toluene-d8			80-120 %	98.7	%	
Surrogate: 4-Bromofluorobenzene			80-120 %	99.5	%	
Surrogate: 1,2-Dichlorobenzene-d4			80-120 %	106	%	



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Reported:
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Trip Blanks
20I0132-07 (Water)

Volatile Organic Compounds

Method: NWTPHg	Sampled: 09/09/2020 16:00
Instrument: NT3 Analyst: PKC	Analyzed: 09/11/2020 12:17
Sample Preparation:	Preparation Method: EPA 5030C (Purge and Trap)
	Preparation Batch: BII0284
	Sample Size: 10 mL
	Final Volume: 10 mL
	Extract ID: 20I0132-07 A

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 %	98.7	%	
Surrogate: 4-Bromofluorobenzene			80-120 %	99.5	%	



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Reported:
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Volatile Organic Compounds - Quality Control

Batch BII0284 - EPA 5030C (Purge and Trap)

Instrument: NT3 Analyst: PKC

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BII0284-BLK1) Prepared: 11-Sep-2020 Analyzed: 11-Sep-2020 11:25										
Benzene	ND	0.20	ug/L							U
Toluene	ND	0.20	ug/L							U
Ethylbenzene	ND	0.20	ug/L							U
m,p-Xylene	ND	0.40	ug/L							U
o-Xylene	ND	0.20	ug/L							U
Surrogate: 1,2-Dichloroethane-d4	4.95		ug/L	5.00		99.0	80-129			
Surrogate: Toluene-d8	4.88		ug/L	5.00		97.6	80-120			
Surrogate: 4-Bromofluorobenzene	4.84		ug/L	5.00		96.7	80-120			
Surrogate: 1,2-Dichlorobenzene-d4	4.89		ug/L	5.00		97.8	80-120			
Blank (BII0284-BLK2) Prepared: 11-Sep-2020 Analyzed: 11-Sep-2020 11:25										
Gasoline Range Organics (Tol-Nap)	ND	100	ug/L							U
Surrogate: Toluene-d8	4.88		ug/L	5.00		97.6	80-120			
Surrogate: 4-Bromofluorobenzene	4.84		ug/L	5.00		96.7	80-120			
LCS (BII0284-BS1) Prepared: 11-Sep-2020 Analyzed: 11-Sep-2020 09:41										
Benzene	9.81	0.20	ug/L	10.0		98.1	80-120			
Toluene	9.81	0.20	ug/L	10.0		98.1	80-120			
Ethylbenzene	9.63	0.20	ug/L	10.0		96.3	80-120			
m,p-Xylene	19.7	0.40	ug/L	20.0		98.7	80-121			
o-Xylene	9.69	0.20	ug/L	10.0		96.9	80-121			
Surrogate: 1,2-Dichloroethane-d4	4.56		ug/L	5.00		91.2	80-129			
Surrogate: Toluene-d8	5.04		ug/L	5.00		101	80-120			
Surrogate: 4-Bromofluorobenzene	4.92		ug/L	5.00		98.3	80-120			
Surrogate: 1,2-Dichlorobenzene-d4	5.05		ug/L	5.00		101	80-120			
LCS (BII0284-BS2) Prepared: 11-Sep-2020 Analyzed: 11-Sep-2020 10:33										
Gasoline Range Organics (Tol-Nap)	904	100	ug/L	1000		90.4	72-128			
Surrogate: Toluene-d8	4.95		ug/L	5.00		99.1	80-120			
Surrogate: 4-Bromofluorobenzene	5.23		ug/L	5.00		105	80-120			
LCS Dup (BII0284-BSD1) Prepared: 11-Sep-2020 Analyzed: 11-Sep-2020 10:07										
Benzene	10.3	0.20	ug/L	10.0		103	80-120	4.83	30	
Toluene	10.4	0.20	ug/L	10.0		104	80-120	5.55	30	



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

Reported:
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Volatile Organic Compounds - Quality Control

Batch BII0284 - EPA 5030C (Purge and Trap)

Instrument: NT3 Analyst: PKC

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS Dup (BII0284-BSD1)										
Prepared: 11-Sep-2020 Analyzed: 11-Sep-2020 10:07										
Ethylbenzene	10.4	0.20	ug/L	10.0		104	80-120	7.44	30	
m,p-Xylene	20.7	0.40	ug/L	20.0		104	80-121	4.87	30	
o-Xylene	10.3	0.20	ug/L	10.0		103	80-121	5.77	30	
Surrogate: 1,2-Dichloroethane-d4	5.31		ug/L	5.00		106	80-129			
Surrogate: Toluene-d8	4.89		ug/L	5.00		97.7	80-120			
Surrogate: 4-Bromofluorobenzene	4.96		ug/L	5.00		99.2	80-120			
Surrogate: 1,2-Dichlorobenzene-d4	5.16		ug/L	5.00		103	80-120			
LCS Dup (BII0284-BSD2)										
Prepared: 11-Sep-2020 Analyzed: 11-Sep-2020 10:59										
Gasoline Range Organics (Tol-Nap)	954	100	ug/L	1000		95.4	72-128	5.39	30	
Surrogate: Toluene-d8	4.98		ug/L	5.00		99.6	80-120			
Surrogate: 4-Bromofluorobenzene	5.12		ug/L	5.00		102	80-120			



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Semivolatile Organic Compounds - SIM - Quality Control

Batch BII0334 - EPA 3520C (Liq Liq)

Instrument: NT8 Analyst: JZ

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BII0334-BLK1) Prepared: 15-Sep-2020 Analyzed: 16-Sep-2020 16:34											
Naphthalene	ND	0.02	0.10	ug/L							U
2-Methylnaphthalene	ND	0.03	0.10	ug/L							U
1-Methylnaphthalene	ND	0.02	0.10	ug/L							U
Acenaphthylene	ND	0.02	0.10	ug/L							U
Acenaphthene	ND	0.02	0.10	ug/L							U
Dibenzofuran	ND	0.02	0.10	ug/L							U
Fluorene	ND	0.02	0.10	ug/L							U
Phenanthrene	ND	0.02	0.10	ug/L							U
Anthracene	ND	0.02	0.10	ug/L							U
Fluoranthene	ND	0.02	0.10	ug/L							U
Pyrene	ND	0.03	0.10	ug/L							U
Benzo(a)anthracene	ND	0.05	0.10	ug/L							U
Chrysene	ND	0.06	0.10	ug/L							U
Benzo(b)fluoranthene	ND	0.09	0.10	ug/L							U
Benzo(k)fluoranthene	ND	0.09	0.10	ug/L							U
Benzo(j)fluoranthene	ND	0.03	0.10	ug/L							U
Benzofluoranthenes, Total	ND	0.19	0.20	ug/L							U
Benzo(a)pyrene	ND	0.06	0.10	ug/L							U
Indeno(1,2,3-cd)pyrene	ND	0.08	0.10	ug/L							U
Dibenzo(a,h)anthracene	ND	0.09	0.10	ug/L							U
Benzo(g,h,i)perylene	ND	0.07	0.10	ug/L							U
Surrogate: 2-Methylnaphthalene-d10	1.90			ug/L	3.00		63.2	31-120			
Surrogate: Dibenzo[a,h]anthracene-d14	2.84			ug/L	3.00		94.7	10-125			

LCS (BII0334-BS1) Prepared: 15-Sep-2020 Analyzed: 16-Sep-2020 17:00											
Naphthalene	1.48	0.02	0.10	ug/L	3.00		49.2	33-120			
2-Methylnaphthalene	1.49	0.03	0.10	ug/L	3.00		49.6	29-120			
1-Methylnaphthalene	1.52	0.02	0.10	ug/L	3.00		50.6	37-120			
Acenaphthylene	1.26	0.02	0.10	ug/L	3.00		41.9	32-120			
Acenaphthene	1.57	0.02	0.10	ug/L	3.00		52.3	38-120			
Dibenzofuran	1.71	0.02	0.10	ug/L	3.00		56.9	38-120			
Fluorene	1.74	0.02	0.10	ug/L	3.00		57.8	41-120			
Phenanthrene	1.88	0.02	0.10	ug/L	3.00		62.7	49-120			
Anthracene	1.66	0.02	0.10	ug/L	3.00		55.3	39-120			
Fluoranthene	2.20	0.02	0.10	ug/L	3.00		73.5	48-120			



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Semivolatile Organic Compounds - SIM - Quality Control

Batch BII0334 - EPA 3520C (Liq Liq)

Instrument: NT8 Analyst: JZ

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS (BII0334-BS1)						Prepared: 15-Sep-2020 Analyzed: 16-Sep-2020 17:00					
Pyrene	2.11	0.03	0.10	ug/L	3.00		70.2	48-120			
Benzo(a)anthracene	2.12	0.05	0.10	ug/L	3.00		70.5	37-120			
Chrysene	2.28	0.06	0.10	ug/L	3.00		76.0	48-120			
Benzo(b)fluoranthene	2.97	0.09	0.10	ug/L	3.00		99.1	38-128			
Benzo(k)fluoranthene	2.75	0.09	0.10	ug/L	3.00		91.7	36-130			
Benzo(j)fluoranthene	2.66	0.03	0.10	ug/L	3.00		88.8	49-120			
Benzofluoranthenes, Total	8.36	0.19	0.20	ug/L	9.00		92.9	46-120			
Benzo(a)pyrene	2.25	0.06	0.10	ug/L	3.00		74.8	25-120			
Indeno(1,2,3-cd)pyrene	3.27	0.08	0.10	ug/L	3.00		109	32-120			Q
Dibenzo(a,h)anthracene	3.44	0.09	0.10	ug/L	3.00		115	21-120			
Benzo(g,h,i)perylene	3.60	0.07	0.10	ug/L	3.00		120	28-120			Q
Surrogate: 2-Methylnaphthalene-d10	1.74			ug/L	3.00		57.9	31-120			
Surrogate: Dibenzo[a,h]anthracene-d14	3.56			ug/L	3.00		119	10-125			



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Petroleum Hydrocarbons - Quality Control

Batch BII0282 - EPA 3510C SepF

Instrument: FID4 Analyst: CTO

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BII0282-BLK1) Prepared: 14-Sep-2020 Analyzed: 16-Sep-2020 10:20										
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	0.195		mg/L	0.225		86.5	50-150			
LCS (BII0282-BS1) Prepared: 14-Sep-2020 Analyzed: 16-Sep-2020 10:39										
Diesel Range Organics (C12-C24)	2.42	0.100	mg/L	3.00		80.7	56-120			
Surrogate: o-Terphenyl	0.220		mg/L	0.225		98.0	50-150			
LCS Dup (BII0282-BSD1) Prepared: 14-Sep-2020 Analyzed: 16-Sep-2020 10:59										
Diesel Range Organics (C12-C24)	2.34	0.100	mg/L	3.00		78.0	56-120	3.40	30	
Surrogate: o-Terphenyl	0.216		mg/L	0.225		95.9	50-150			



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Certified Analyses included in this Report

Analyte	Certifications
EPA 8260D in Water	
Chloromethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Chloromethane	DoD-ELAP,ADEC,NELAP,CALAP
Chloromethane	DoD-ELAP,ADEC,CALAP,WADOE
Chloromethane	DoD-ELAP,ADEC,NELAP,WADOE
Vinyl Chloride	DoD-ELAP,ADEC,NELAP,CALAP
Vinyl Chloride	DoD-ELAP,ADEC,CALAP,WADOE
Vinyl Chloride	DoD-ELAP,ADEC,NELAP,WADOE
Vinyl Chloride	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Bromomethane	DoD-ELAP,ADEC,CALAP,WADOE
Bromomethane	DoD-ELAP,ADEC,NELAP,CALAP
Bromomethane	DoD-ELAP,ADEC,NELAP,WADOE
Bromomethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Chloroethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Chloroethane	DoD-ELAP,ADEC,NELAP,CALAP
Chloroethane	DoD-ELAP,ADEC,CALAP,WADOE
Chloroethane	DoD-ELAP,ADEC,NELAP,WADOE
Trichlorofluoromethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Trichlorofluoromethane	DoD-ELAP,ADEC,CALAP,WADOE
Trichlorofluoromethane	DoD-ELAP,ADEC,NELAP,WADOE
Trichlorofluoromethane	DoD-ELAP,ADEC,NELAP,CALAP
Acrolein	DoD-ELAP,NELAP,WADOE
Acrolein	DoD-ELAP,CALAP,WADOE
Acrolein	DoD-ELAP,NELAP,CALAP,WADOE
Acrolein	DoD-ELAP,NELAP,CALAP
1,1,2-Trichloro-1,2,2-Trifluoroethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
1,1,2-Trichloro-1,2,2-Trifluoroethane	DoD-ELAP,ADEC,NELAP,CALAP
1,1,2-Trichloro-1,2,2-Trifluoroethane	DoD-ELAP,ADEC,CALAP,WADOE
1,1,2-Trichloro-1,2,2-Trifluoroethane	DoD-ELAP,ADEC,NELAP,WADOE
Acetone	DoD-ELAP,ADEC,CALAP,WADOE
Acetone	DoD-ELAP,ADEC,NELAP,CALAP
Acetone	DoD-ELAP,ADEC,NELAP,WADOE
Acetone	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
1,1-Dichloroethene	DoD-ELAP,ADEC,NELAP,WADOE
1,1-Dichloroethene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
1,1-Dichloroethene	DoD-ELAP,ADEC,CALAP,WADOE



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1,1-Dichloroethene	DoD-ELAP,ADEC,NELAP,CALAP
Iodomethane	DoD-ELAP,NELAP,WADOE
Iodomethane	DoD-ELAP,CALAP,WADOE
Iodomethane	DoD-ELAP,NELAP,CALAP
Iodomethane	DoD-ELAP,NELAP,CALAP,WADOE
Methylene Chloride	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Methylene Chloride	DoD-ELAP,ADEC,NELAP,WADOE
Methylene Chloride	DoD-ELAP,ADEC,NELAP,CALAP
Methylene Chloride	DoD-ELAP,ADEC,CALAP,WADOE
Acrylonitrile	DoD-ELAP,NELAP,CALAP,WADOE
Acrylonitrile	DoD-ELAP,NELAP,CALAP
Acrylonitrile	DoD-ELAP,CALAP,WADOE
Acrylonitrile	DoD-ELAP,NELAP,WADOE
Carbon Disulfide	DoD-ELAP,CALAP,WADOE
Carbon Disulfide	DoD-ELAP,NELAP,WADOE
Carbon Disulfide	DoD-ELAP,NELAP,CALAP
Carbon Disulfide	DoD-ELAP,NELAP,CALAP,WADOE
trans-1,2-Dichloroethene	DoD-ELAP,ADEC,NELAP,CALAP
trans-1,2-Dichloroethene	DoD-ELAP,ADEC,CALAP,WADOE
trans-1,2-Dichloroethene	DoD-ELAP,ADEC,NELAP,WADOE
trans-1,2-Dichloroethene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Vinyl Acetate	DoD-ELAP,NELAP,CALAP,WADOE
Vinyl Acetate	DoD-ELAP,NELAP,CALAP
Vinyl Acetate	DoD-ELAP,CALAP,WADOE
Vinyl Acetate	DoD-ELAP,NELAP,WADOE
1,1-Dichloroethane	DoD-ELAP,ADEC,NELAP,CALAP
1,1-Dichloroethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
1,1-Dichloroethane	DoD-ELAP,ADEC,CALAP,WADOE
1,1-Dichloroethane	DoD-ELAP,ADEC,NELAP,WADOE
2-Butanone	DoD-ELAP,NELAP,CALAP
2-Butanone	DoD-ELAP,CALAP,WADOE
2-Butanone	DoD-ELAP,NELAP,WADOE
2-Butanone	DoD-ELAP,NELAP,CALAP,WADOE
2,2-Dichloropropane	DoD-ELAP,ADEC,NELAP,WADOE
2,2-Dichloropropane	DoD-ELAP,ADEC,CALAP,WADOE
2,2-Dichloropropane	DoD-ELAP,ADEC,NELAP,CALAP
2,2-Dichloropropane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
cis-1,2-Dichloroethene	DoD-ELAP,ADEC,NELAP,WADOE
cis-1,2-Dichloroethene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE



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cis-1,2-Dichloroethene	DoD-ELAP,ADEC,CALAP,WADOE
cis-1,2-Dichloroethene	DoD-ELAP,ADEC,NELAP,CALAP
Chloroform	DoD-ELAP,ADEC,CALAP,WADOE
Chloroform	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Chloroform	DoD-ELAP,ADEC,NELAP,CALAP
Chloroform	DoD-ELAP,ADEC,NELAP,WADOE
Bromochloromethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Bromochloromethane	DoD-ELAP,ADEC,NELAP,CALAP
Bromochloromethane	DoD-ELAP,ADEC,CALAP,WADOE
Bromochloromethane	DoD-ELAP,ADEC,NELAP,WADOE
1,1,1-Trichloroethane	DoD-ELAP,ADEC,CALAP,WADOE
1,1,1-Trichloroethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
1,1,1-Trichloroethane	DoD-ELAP,ADEC,NELAP,WADOE
1,1,1-Trichloroethane	DoD-ELAP,ADEC,NELAP,CALAP
1,1-Dichloropropene	DoD-ELAP,ADEC,NELAP,WADOE
1,1-Dichloropropene	DoD-ELAP,ADEC,CALAP,WADOE
1,1-Dichloropropene	DoD-ELAP,ADEC,NELAP,CALAP
1,1-Dichloropropene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Carbon tetrachloride	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Carbon tetrachloride	DoD-ELAP,ADEC,NELAP,CALAP
Carbon tetrachloride	DoD-ELAP,ADEC,NELAP,WADOE
Carbon tetrachloride	DoD-ELAP,ADEC,CALAP,WADOE
1,2-Dichloroethane	DoD-ELAP,ADEC,NELAP,CALAP
1,2-Dichloroethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
1,2-Dichloroethane	DoD-ELAP,ADEC,CALAP,WADOE
1,2-Dichloroethane	DoD-ELAP,ADEC,NELAP,WADOE
Benzene	DoD-ELAP,ADEC,NELAP,WADOE
Benzene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Benzene	DoD-ELAP,ADEC,NELAP,CALAP
Benzene	DoD-ELAP,ADEC,CALAP,WADOE
Trichloroethene	DoD-ELAP,ADEC,NELAP,WADOE
Trichloroethene	DoD-ELAP,ADEC,CALAP,WADOE
Trichloroethene	DoD-ELAP,ADEC,NELAP,CALAP
Trichloroethene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
1,2-Dichloropropane	DoD-ELAP,ADEC,NELAP,CALAP
1,2-Dichloropropane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
1,2-Dichloropropane	DoD-ELAP,ADEC,CALAP,WADOE
1,2-Dichloropropane	DoD-ELAP,ADEC,NELAP,WADOE
Bromodichloromethane	DoD-ELAP,ADEC,NELAP,CALAP



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Bromodichloromethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Bromodichloromethane	DoD-ELAP,ADEC,CALAP,WADOE
Bromodichloromethane	DoD-ELAP,ADEC,NELAP,WADOE
Dibromomethane	DoD-ELAP,ADEC,NELAP,WADOE
Dibromomethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Dibromomethane	DoD-ELAP,ADEC,CALAP,WADOE
Dibromomethane	DoD-ELAP,ADEC,NELAP,CALAP
2-Chloroethyl vinyl ether	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
2-Chloroethyl vinyl ether	DoD-ELAP,ADEC,NELAP,CALAP
2-Chloroethyl vinyl ether	DoD-ELAP,ADEC,CALAP,WADOE
2-Chloroethyl vinyl ether	DoD-ELAP,ADEC,NELAP,WADOE
4-Methyl-2-Pentanone	DoD-ELAP,NELAP,CALAP,WADOE
4-Methyl-2-Pentanone	DoD-ELAP,NELAP,WADOE
4-Methyl-2-Pentanone	DoD-ELAP,NELAP,CALAP
4-Methyl-2-Pentanone	DoD-ELAP,CALAP,WADOE
cis-1,3-Dichloropropene	DoD-ELAP,ADEC,CALAP,WADOE
cis-1,3-Dichloropropene	DoD-ELAP,ADEC,NELAP,CALAP
cis-1,3-Dichloropropene	DoD-ELAP,ADEC,NELAP,WADOE
cis-1,3-Dichloropropene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Toluene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Toluene	DoD-ELAP,ADEC,NELAP,CALAP
Toluene	DoD-ELAP,ADEC,NELAP,WADOE
Toluene	DoD-ELAP,ADEC,CALAP,WADOE
trans-1,3-Dichloropropene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
trans-1,3-Dichloropropene	DoD-ELAP,ADEC,NELAP,CALAP
trans-1,3-Dichloropropene	DoD-ELAP,ADEC,NELAP,WADOE
trans-1,3-Dichloropropene	DoD-ELAP,ADEC,CALAP,WADOE
2-Hexanone	DoD-ELAP,NELAP,CALAP
2-Hexanone	DoD-ELAP,CALAP,WADOE
2-Hexanone	DoD-ELAP,NELAP,CALAP,WADOE
2-Hexanone	DoD-ELAP,NELAP,WADOE
1,1,2-Trichloroethane	DoD-ELAP,ADEC,CALAP,WADOE
1,1,2-Trichloroethane	DoD-ELAP,ADEC,NELAP,CALAP
1,1,2-Trichloroethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
1,1,2-Trichloroethane	DoD-ELAP,ADEC,NELAP,WADOE
1,3-Dichloropropane	DoD-ELAP,ADEC,NELAP,WADOE
1,3-Dichloropropane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
1,3-Dichloropropane	DoD-ELAP,ADEC,NELAP,CALAP
1,3-Dichloropropane	DoD-ELAP,ADEC,CALAP,WADOE



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Tetrachloroethene	DoD-ELAP,ADEC,NELAP,WADOE
Tetrachloroethene	DoD-ELAP,ADEC,CALAP,WADOE
Tetrachloroethene	DoD-ELAP,ADEC,NELAP,CALAP
Tetrachloroethene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Dibromochloromethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Dibromochloromethane	DoD-ELAP,ADEC,NELAP,WADOE
Dibromochloromethane	DoD-ELAP,ADEC,NELAP,CALAP
Dibromochloromethane	DoD-ELAP,ADEC,CALAP,WADOE
1,2-Dibromoethane	DoD-ELAP,CALAP,WADOE
1,2-Dibromoethane	DoD-ELAP,NELAP,CALAP,WADOE
1,2-Dibromoethane	DoD-ELAP,NELAP,WADOE
1,2-Dibromoethane	DoD-ELAP,NELAP,CALAP
Chlorobenzene	DoD-ELAP,ADEC,NELAP,WADOE
Chlorobenzene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Chlorobenzene	DoD-ELAP,ADEC,NELAP,CALAP
Chlorobenzene	DoD-ELAP,ADEC,CALAP,WADOE
Ethylbenzene	DoD-ELAP,ADEC,NELAP,WADOE
Ethylbenzene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Ethylbenzene	DoD-ELAP,ADEC,CALAP,WADOE
Ethylbenzene	DoD-ELAP,ADEC,NELAP,CALAP
1,1,1,2-Tetrachloroethane	DoD-ELAP,ADEC,NELAP,CALAP
1,1,1,2-Tetrachloroethane	DoD-ELAP,ADEC,CALAP,WADOE
1,1,1,2-Tetrachloroethane	DoD-ELAP,ADEC,NELAP,WADOE
1,1,1,2-Tetrachloroethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
m,p-Xylene	DoD-ELAP,ADEC,NELAP,WADOE
m,p-Xylene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
m,p-Xylene	DoD-ELAP,ADEC,NELAP,CALAP
m,p-Xylene	DoD-ELAP,ADEC,CALAP,WADOE
o-Xylene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
o-Xylene	DoD-ELAP,ADEC,NELAP,CALAP
o-Xylene	DoD-ELAP,ADEC,CALAP,WADOE
o-Xylene	DoD-ELAP,ADEC,NELAP,WADOE
Styrene	DoD-ELAP,NELAP,CALAP,WADOE
Styrene	DoD-ELAP,NELAP,CALAP
Styrene	DoD-ELAP,CALAP,WADOE
Styrene	DoD-ELAP,NELAP,WADOE
Bromoform	DoD-ELAP,NELAP,WADOE
Bromoform	DoD-ELAP,CALAP,WADOE
Bromoform	DoD-ELAP,NELAP,CALAP



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Bromoform	DoD-ELAP,NELAP,CALAP,WADOE
1,1,2,2-Tetrachloroethane	DoD-ELAP,ADEC,NELAP,CALAP
1,1,2,2-Tetrachloroethane	DoD-ELAP,ADEC,CALAP,WADOE
1,1,2,2-Tetrachloroethane	DoD-ELAP,ADEC,NELAP,WADOE
1,1,2,2-Tetrachloroethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
1,2,3-Trichloropropane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
1,2,3-Trichloropropane	DoD-ELAP,ADEC,NELAP,CALAP
1,2,3-Trichloropropane	DoD-ELAP,ADEC,CALAP,WADOE
1,2,3-Trichloropropane	DoD-ELAP,ADEC,NELAP,WADOE
trans-1,4-Dichloro 2-Butene	DoD-ELAP,ADEC,NELAP,CALAP
trans-1,4-Dichloro 2-Butene	DoD-ELAP,ADEC,CALAP,WADOE
trans-1,4-Dichloro 2-Butene	DoD-ELAP,ADEC,NELAP,WADOE
trans-1,4-Dichloro 2-Butene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
n-Propylbenzene	DoD-ELAP,NELAP,WADOE
n-Propylbenzene	DoD-ELAP,NELAP,CALAP,WADOE
n-Propylbenzene	DoD-ELAP,CALAP,WADOE
n-Propylbenzene	DoD-ELAP,NELAP,CALAP
Bromobenzene	DoD-ELAP,NELAP,CALAP
Bromobenzene	DoD-ELAP,CALAP,WADOE
Bromobenzene	DoD-ELAP,NELAP,WADOE
Bromobenzene	DoD-ELAP,NELAP,CALAP,WADOE
Isopropyl Benzene	DoD-ELAP,CALAP,WADOE
Isopropyl Benzene	DoD-ELAP,NELAP,CALAP
Isopropyl Benzene	DoD-ELAP,NELAP,WADOE
Isopropyl Benzene	DoD-ELAP,NELAP,CALAP,WADOE
2-Chlorotoluene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
2-Chlorotoluene	DoD-ELAP,ADEC,NELAP,CALAP
2-Chlorotoluene	DoD-ELAP,ADEC,CALAP,WADOE
2-Chlorotoluene	DoD-ELAP,ADEC,NELAP,WADOE
4-Chlorotoluene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
4-Chlorotoluene	DoD-ELAP,ADEC,NELAP,CALAP
4-Chlorotoluene	DoD-ELAP,ADEC,CALAP,WADOE
4-Chlorotoluene	DoD-ELAP,ADEC,NELAP,WADOE
t-Butylbenzene	DoD-ELAP,NELAP,CALAP,WADOE
t-Butylbenzene	DoD-ELAP,NELAP,WADOE
t-Butylbenzene	DoD-ELAP,NELAP,CALAP
t-Butylbenzene	DoD-ELAP,CALAP,WADOE
1,3,5-Trimethylbenzene	DoD-ELAP,NELAP,WADOE
1,3,5-Trimethylbenzene	DoD-ELAP,NELAP,CALAP,WADOE



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1,3,5-Trimethylbenzene	DoD-ELAP,CALAP,WADOE
1,3,5-Trimethylbenzene	DoD-ELAP,NELAP,CALAP
1,2,4-Trimethylbenzene	DoD-ELAP,NELAP,CALAP,WADOE
1,2,4-Trimethylbenzene	DoD-ELAP,NELAP,WADOE
1,2,4-Trimethylbenzene	DoD-ELAP,CALAP,WADOE
1,2,4-Trimethylbenzene	DoD-ELAP,NELAP,CALAP
s-Butylbenzene	DoD-ELAP,CALAP,WADOE
s-Butylbenzene	DoD-ELAP,NELAP,CALAP
s-Butylbenzene	DoD-ELAP,NELAP,WADOE
s-Butylbenzene	DoD-ELAP,NELAP,CALAP,WADOE
4-Isopropyl Toluene	DoD-ELAP,CALAP,WADOE
4-Isopropyl Toluene	DoD-ELAP,NELAP,CALAP
4-Isopropyl Toluene	DoD-ELAP,NELAP,WADOE
4-Isopropyl Toluene	DoD-ELAP,NELAP,CALAP,WADOE
1,3-Dichlorobenzene	DoD-ELAP,ADEC,CALAP,WADOE
1,3-Dichlorobenzene	DoD-ELAP,ADEC,NELAP,CALAP
1,3-Dichlorobenzene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
1,3-Dichlorobenzene	DoD-ELAP,ADEC,NELAP,WADOE
1,4-Dichlorobenzene	DoD-ELAP,ADEC,NELAP,WADOE
1,4-Dichlorobenzene	DoD-ELAP,ADEC,CALAP,WADOE
1,4-Dichlorobenzene	DoD-ELAP,ADEC,NELAP,CALAP
1,4-Dichlorobenzene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
n-Butylbenzene	DoD-ELAP,NELAP,CALAP,WADOE
n-Butylbenzene	DoD-ELAP,CALAP,WADOE
n-Butylbenzene	DoD-ELAP,NELAP,WADOE
n-Butylbenzene	DoD-ELAP,NELAP,CALAP
1,2-Dichlorobenzene	DoD-ELAP,ADEC,NELAP,CALAP
1,2-Dichlorobenzene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
1,2-Dichlorobenzene	DoD-ELAP,ADEC,NELAP,WADOE
1,2-Dichlorobenzene	DoD-ELAP,ADEC,CALAP,WADOE
1,2-Dibromo-3-chloropropane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
1,2-Dibromo-3-chloropropane	DoD-ELAP,ADEC,NELAP,CALAP
1,2-Dibromo-3-chloropropane	DoD-ELAP,ADEC,NELAP,WADOE
1,2-Dibromo-3-chloropropane	DoD-ELAP,ADEC,CALAP,WADOE
1,2,4-Trichlorobenzene	DoD-ELAP,ADEC,NELAP,WADOE
1,2,4-Trichlorobenzene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
1,2,4-Trichlorobenzene	DoD-ELAP,ADEC,NELAP,CALAP
1,2,4-Trichlorobenzene	DoD-ELAP,ADEC,CALAP,WADOE
Hexachloro-1,3-Butadiene	DoD-ELAP,ADEC,NELAP,WADOE



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Hexachloro-1,3-Butadiene	DoD-ELAP,ADEC,NELAP,CALAP
Hexachloro-1,3-Butadiene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Hexachloro-1,3-Butadiene	DoD-ELAP,ADEC,CALAP,WADOE
Naphthalene	DoD-ELAP,ADEC,CALAP,WADOE
Naphthalene	DoD-ELAP,ADEC,NELAP,CALAP
Naphthalene	DoD-ELAP,ADEC,NELAP,WADOE
Naphthalene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
1,2,3-Trichlorobenzene	DoD-ELAP,ADEC,NELAP,CALAP
1,2,3-Trichlorobenzene	DoD-ELAP,ADEC,CALAP,WADOE
1,2,3-Trichlorobenzene	DoD-ELAP,ADEC,NELAP,WADOE
1,2,3-Trichlorobenzene	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Dichlorodifluoromethane	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
Dichlorodifluoromethane	DoD-ELAP,ADEC,NELAP,CALAP
Dichlorodifluoromethane	DoD-ELAP,ADEC,CALAP,WADOE
Dichlorodifluoromethane	DoD-ELAP,ADEC,NELAP,WADOE
Methyl tert-butyl Ether	DoD-ELAP,ADEC,NELAP,CALAP
Methyl tert-butyl Ether	DoD-ELAP,ADEC,CALAP,WADOE
Methyl tert-butyl Ether	DoD-ELAP,ADEC,NELAP,WADOE
Methyl tert-butyl Ether	DoD-ELAP,ADEC,NELAP,CALAP,WADOE
n-Hexane	WADOE
n-Hexane	WADOE
n-Hexane	
n-Hexane	WADOE
2-Pentanone	
2-Pentanone	WADOE
2-Pentanone	WADOE
2-Pentanone	WADOE

EPA 8270E-SIM in Water

Naphthalene	DoD-ELAP
Naphthalene	DoD-ELAP
Naphthalene	DoD-ELAP
Naphthalene	DoD-ELAP
2-Methylnaphthalene	DoD-ELAP
2-Methylnaphthalene	DoD-ELAP
2-Methylnaphthalene	DoD-ELAP
2-Methylnaphthalene	DoD-ELAP
1-Methylnaphthalene	DoD-ELAP
1-Methylnaphthalene	DoD-ELAP
1-Methylnaphthalene	DoD-ELAP



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1-Methylnaphthalene	DoD-ELAP
2-Chloronaphthalene	DoD-ELAP
2-Chloronaphthalene	DoD-ELAP
2-Chloronaphthalene	DoD-ELAP
2-Chloronaphthalene	DoD-ELAP
Biphenyl	DoD-ELAP
Biphenyl	DoD-ELAP
Biphenyl	DoD-ELAP
Biphenyl	DoD-ELAP
2,6-Dimethylnaphthalene	DoD-ELAP
2,6-Dimethylnaphthalene	DoD-ELAP
2,6-Dimethylnaphthalene	DoD-ELAP
2,6-Dimethylnaphthalene	DoD-ELAP
Acenaphthylene	DoD-ELAP
Acenaphthylene	DoD-ELAP
Acenaphthylene	DoD-ELAP
Acenaphthylene	DoD-ELAP
Acenaphthene	DoD-ELAP
Acenaphthene	DoD-ELAP
Acenaphthene	DoD-ELAP
Acenaphthene	DoD-ELAP
Dibenzofuran	DoD-ELAP
Dibenzofuran	DoD-ELAP
Dibenzofuran	DoD-ELAP
Dibenzofuran	DoD-ELAP
2,3,5-Trimethylnaphthalene	DoD-ELAP
2,3,5-Trimethylnaphthalene	DoD-ELAP
2,3,5-Trimethylnaphthalene	DoD-ELAP
2,3,5-Trimethylnaphthalene	DoD-ELAP
Fluorene	DoD-ELAP
Fluorene	DoD-ELAP
Fluorene	DoD-ELAP
Fluorene	DoD-ELAP
Dibenzothiophene	DoD-ELAP
Dibenzothiophene	DoD-ELAP
Dibenzothiophene	DoD-ELAP
Dibenzothiophene	DoD-ELAP
Phenanthrene	DoD-ELAP
Phenanthrene	DoD-ELAP



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Phenanthrene	DoD-ELAP
Phenanthrene	DoD-ELAP
Anthracene	DoD-ELAP
Anthracene	DoD-ELAP
Anthracene	DoD-ELAP
Anthracene	DoD-ELAP
Carbazole	DoD-ELAP
Carbazole	DoD-ELAP
Carbazole	DoD-ELAP
Carbazole	DoD-ELAP
1-Methylphenanthrene	DoD-ELAP
1-Methylphenanthrene	DoD-ELAP
1-Methylphenanthrene	DoD-ELAP
1-Methylphenanthrene	DoD-ELAP
Fluoranthene	DoD-ELAP
Fluoranthene	DoD-ELAP
Fluoranthene	DoD-ELAP
Fluoranthene	DoD-ELAP
Pyrene	DoD-ELAP
Pyrene	DoD-ELAP
Pyrene	DoD-ELAP
Pyrene	DoD-ELAP
Benzo(a)anthracene	DoD-ELAP
Benzo(a)anthracene	DoD-ELAP
Benzo(a)anthracene	DoD-ELAP
Benzo(a)anthracene	DoD-ELAP
Chrysene	DoD-ELAP
Chrysene	DoD-ELAP
Chrysene	DoD-ELAP
Chrysene	DoD-ELAP
Benzo(b)fluoranthene	DoD-ELAP
Benzo(b)fluoranthene	DoD-ELAP
Benzo(b)fluoranthene	DoD-ELAP
Benzo(b)fluoranthene	DoD-ELAP
Benzo(k)fluoranthene	DoD-ELAP
Benzo(k)fluoranthene	DoD-ELAP
Benzo(k)fluoranthene	DoD-ELAP
Benzo(k)fluoranthene	DoD-ELAP
Benzo(j)fluoranthene	DoD-ELAP



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Benzo(j)fluoranthene	DoD-ELAP
Benzo(j)fluoranthene	DoD-ELAP
Benzo(j)fluoranthene	DoD-ELAP
Benzo(a)fluoranthene, Total	DoD-ELAP
Benzo(a)fluoranthene, Total	DoD-ELAP
Benzo(a)fluoranthene, Total	DoD-ELAP
Benzo(a)fluoranthene, Total	DoD-ELAP
Benzo(e)pyrene	DoD-ELAP
Benzo(e)pyrene	DoD-ELAP
Benzo(e)pyrene	DoD-ELAP
Benzo(e)pyrene	DoD-ELAP
Benzo(a)pyrene	DoD-ELAP
Benzo(a)pyrene	DoD-ELAP
Benzo(a)pyrene	DoD-ELAP
Benzo(a)pyrene	DoD-ELAP
Perylene	DoD-ELAP
Perylene	DoD-ELAP
Perylene	DoD-ELAP
Perylene	DoD-ELAP
Indeno(1,2,3-cd)pyrene	DoD-ELAP
Indeno(1,2,3-cd)pyrene	DoD-ELAP
Indeno(1,2,3-cd)pyrene	DoD-ELAP
Indeno(1,2,3-cd)pyrene	DoD-ELAP
Dibenzo(a,h)anthracene	DoD-ELAP
Dibenzo(a,h)anthracene	DoD-ELAP
Dibenzo(a,h)anthracene	DoD-ELAP
Dibenzo(a,h)anthracene	DoD-ELAP
Benzo(g,h,i)perylene	DoD-ELAP
Benzo(g,h,i)perylene	DoD-ELAP
Benzo(g,h,i)perylene	DoD-ELAP
Benzo(g,h,i)perylene	DoD-ELAP
Benzo(b)thiophene	DoD-ELAP
Benzo(b)thiophene	DoD-ELAP
Benzo(b)thiophene	DoD-ELAP
Benzo(b)thiophene	DoD-ELAP

NWTPH-Dx in Water

Diesel Range Organics (C12-C24)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C12-C24)	DoD-ELAP,NELAP
Diesel Range Organics (C12-C24)	DoD-ELAP,WADOE



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Diesel Range Organics (C12-C24)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C10-C25)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C10-C25)	DoD-ELAP,NELAP
Diesel Range Organics (C10-C25)	DoD-ELAP,WADOE
Diesel Range Organics (C10-C25)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (Tol-C18)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (Tol-C18)	DoD-ELAP,WADOE
Diesel Range Organics (Tol-C18)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (Tol-C18)	DoD-ELAP,NELAP
Diesel Range Organics (C10-C24)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C10-C24)	DoD-ELAP,WADOE
Diesel Range Organics (C10-C24)	DoD-ELAP,NELAP
Diesel Range Organics (C10-C24)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C10-C28)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C10-C28)	DoD-ELAP,WADOE
Diesel Range Organics (C10-C28)	DoD-ELAP,NELAP
Diesel Range Organics (C10-C28)	DoD-ELAP,NELAP,WADOE
Diesel Range Organics (C12-C22)	DoD-ELAP
Diesel Range Organics (C12-C22)	DoD-ELAP
Diesel Range Organics (C12-C22)	DoD-ELAP
Diesel Range Organics (C12-C22)	DoD-ELAP
Diesel Range Organics (C12-C25)	DoD-ELAP
Diesel Range Organics (C12-C25)	DoD-ELAP
Diesel Range Organics (C12-C25)	DoD-ELAP
Diesel Range Organics (C12-C25)	DoD-ELAP
Motor Oil Range Organics (C24-C38)	DoD-ELAP,WADOE
Motor Oil Range Organics (C24-C38)	DoD-ELAP,NELAP
Motor Oil Range Organics (C24-C38)	DoD-ELAP,NELAP,WADOE
Motor Oil Range Organics (C24-C38)	DoD-ELAP,NELAP,WADOE
Motor Oil Range Organics (C25-C36)	DoD-ELAP,WADOE
Motor Oil Range Organics (C25-C36)	DoD-ELAP,NELAP
Motor Oil Range Organics (C25-C36)	DoD-ELAP,NELAP,WADOE
Motor Oil Range Organics (C25-C36)	DoD-ELAP,NELAP,WADOE
Motor Oil Range Organics (C24-C40)	DoD-ELAP,WADOE
Motor Oil Range Organics (C24-C40)	DoD-ELAP,NELAP,WADOE
Motor Oil Range Organics (C24-C40)	DoD-ELAP,NELAP
Motor Oil Range Organics (C24-C40)	DoD-ELAP,NELAP,WADOE
Residual Range Organics (C23-C32)	DoD-ELAP
Residual Range Organics (C23-C32)	DoD-ELAP



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



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Stoddard Range Organics (C8-C12)	DoD-ELAP,NELAP,WADOE
Stoddard Range Organics (C8-C12)	DoD-ELAP,NELAP,WADOE
Stoddard Range Organics (C8-C12)	DoD-ELAP,WADOE
Transformer Oil Range Organics (C12-C28)	DoD-ELAP,NELAP,WADOE
Transformer Oil Range Organics (C12-C28)	DoD-ELAP,WADOE
Transformer Oil Range Organics (C12-C28)	DoD-ELAP,NELAP
Transformer Oil Range Organics (C12-C28)	DoD-ELAP,NELAP,WADOE

NWTPHg in Water

Gasoline Range Organics (Tol-Nap)	WADOE,DoD-ELAP
Gasoline Range Organics (Tol-Nap)	DoD-ELAP
Gasoline Range Organics (Tol-Nap)	WADOE,DoD-ELAP
Gasoline Range Organics (Tol-Nap)	WADOE,DoD-ELAP
Gasoline Range Organics (2MP-TMB)	WADOE,DoD-ELAP
Gasoline Range Organics (2MP-TMB)	WADOE,DoD-ELAP
Gasoline Range Organics (2MP-TMB)	DoD-ELAP
Gasoline Range Organics (2MP-TMB)	WADOE,DoD-ELAP
Gasoline Range Organics (Tol-C12)	WADOE,DoD-ELAP
Gasoline Range Organics (Tol-C12)	WADOE,DoD-ELAP
Gasoline Range Organics (Tol-C12)	DoD-ELAP
Gasoline Range Organics (Tol-C12)	WADOE,DoD-ELAP
Gasoline Range Organics (C6-C10)	ADEC,DoD-ELAP
Gasoline Range Organics (C6-C10)	WADOE,ADEC,DoD-ELAP
Gasoline Range Organics (C6-C10)	WADOE,ADEC,DoD-ELAP
Gasoline Range Organics (C6-C10)	WADOE,ADEC,DoD-ELAP
Gasoline Range Organics (C5-C12)	WADOE,DoD-ELAP
Gasoline Range Organics (C5-C12)	DoD-ELAP
Gasoline Range Organics (C5-C12)	WADOE,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
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021



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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
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.

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