



Transmittal

Date: February 27, 2019

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To: Louise Bardy
Washington Department of Ecology
3190 160th Avenue Southeast
Bellevue, Washington 98008 5452

Subject: 2018 Annual Groundwater Monitoring Report

No. of Copies	Description/Title	Drawing No./ Document Ref.	Issue
1	2018 Annual Groundwater Monitoring Report	RPT-3	

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☐ Your approval/comments ☐ Returned to you ☐ For re-submission

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☐ Other: _____

Remarks:

Copy to: Richard Wright, Jacksons Food Stores

Completed by: Brian Peters
[Please Print]

Signed:

Filing: Correspondence File

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2018 Annual Groundwater Monitoring Report

Jacksons Food Store No. 600-5030
3316 172nd Street Northeast
Arlington, Washington

Jacksons Food Stores





Table of Contents

1.	Introduction.....	1
1.1	Site Information	1
2.	Site Activities and Findings	1
2.1	Current Activities	1
2.2	Findings.....	1

Figure Index

Figure 1	Vicinity Map
Figure 2	Groundwater Contour and Chemical Concentration Map – December 12, 2018

Table Index

Table 1	Summary of Groundwater Monitoring Data
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Appendix Index

Appendix A	Field Forms
Appendix B	Laboratory Analytical Reports



1. Introduction

GHD Services, Inc. (GHD) prepared this report on behalf of Jackson's Food Stores. This annual report includes all groundwater monitoring data collected in 2018.

1.1 Site Information

Site Address	3316 172 nd Street Northeast, Arlington
Site Use	Jacksons Food Store No. 600-5030
GHD Project Manager	Brian Peters
Lead Agency	Washington State Department of Ecology
Agency Case No.	8894437
VCP No.	NW2031

2. Site Activities and Findings

2.1 Current Activities

GHD gauged and sampled wells according to the established monitoring program during 2018.

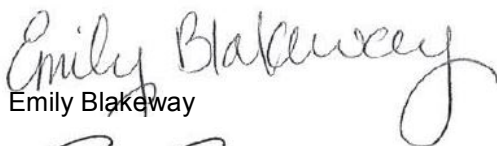
GHD prepared a vicinity map (Figure 1) and groundwater contour and chemical concentration maps (Figure 2). GHD prepared Table 1 summarizing groundwater monitoring data and laboratory analytical results. Field forms and the laboratory analytical reports are included as Appendices A and B, respectively.

2.2 Findings

Quarter/Date	4 th December 12, 2018
Groundwater Flow Direction	Estimated to the southeast
Hydraulic Gradient	0.0007 foot/foot
Depth to Water	5.90 to 7.92 feet below top of well casing

All of Which is Respectfully Submitted,

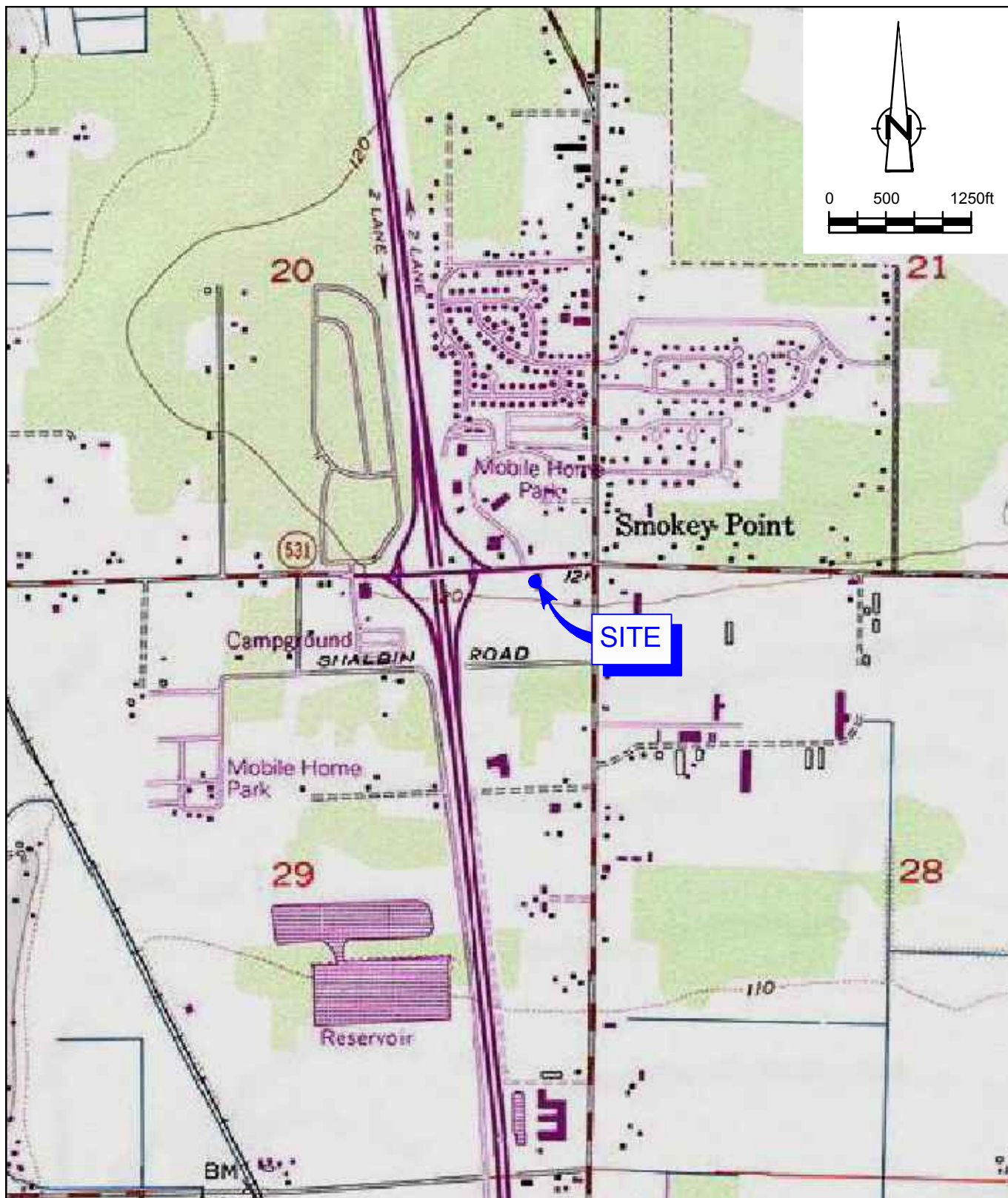
GHD


Emily Blakeway



Brian Peters, LG

Figures



SOURCE: TOPO! MAPS.

figure 1

VICINITY MAP
SHELL-BRANDED WHOLESALE FACILITY
3315 172nd STREET NORTHEAST
Arlington, Washington



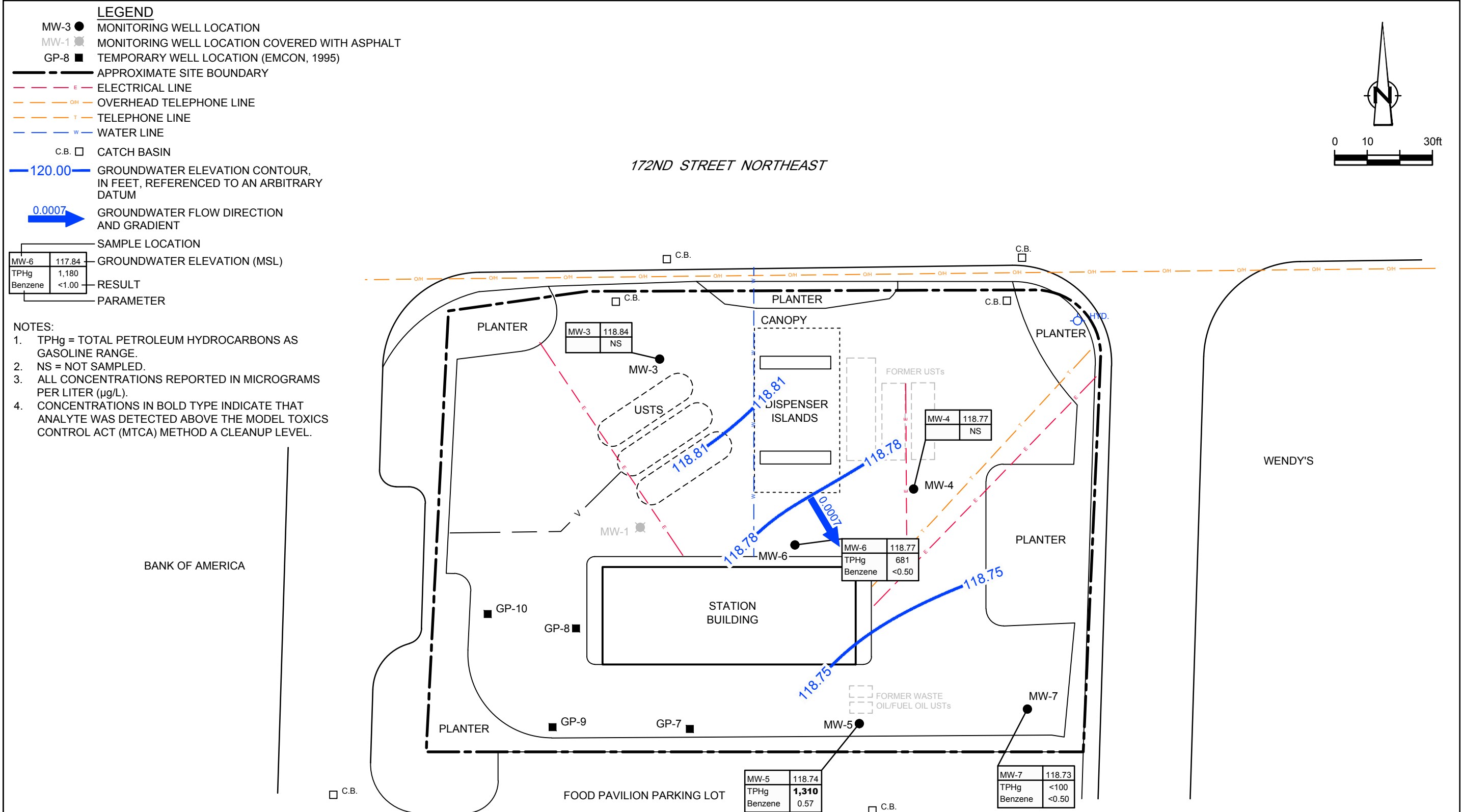


figure 2
GROUNDWATER CONTOUR AND CHEMICAL CONCENTRATION MAP
DECEMBER 12, 2018
JACKSON'S FOOD STORE NO. 600
Arlington, Washington



BASEMAP MODIFIED FROM DRAWING PROVIDED BY GEOENGINEERS AND GOOGLE EARTH

Table

**Summary of Groundwater Monitoring Data
Jackson's Food Store No. 600-5030
3315 172nd Street Northeast
Arlington, Washington**

Sample ID	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCs						OXYGENATES					Lead
					TPHg	TPHd	TPHo	B	T	E	X	EDB	EDC	MTBE	TBA	DIPE	ETBE	TAME	Total
Model Toxics Control Act Method A Cleanup Levels					800 ug/L	500 ug/L	500 ug/L	5 ug/L	1000 ug/L	700 ug/L	1000 ug/L	0.01 ug/L	5 ug/L	20 ug/L	NE ug/L	NE ug/L	NE ug/L	NE ug/L	15 ug/L
MW-1	08/09/90	100	7.83	92.17	---	---	---	<50	<50	<50	<50	---	---	---	---	---	---	---	
MW-1	05/09/91	100	5.52	94.48	<1,000	---	---	23	<1	<1	<1	---	---	---	---	---	---	---	
MW-1	06/12/91	100	6.25	93.75	---	---	---	14	<1	<1	1	---	---	---	---	---	---	---	
MW-1	10/02/91	100	8.74	91.26	<1,000	---	---	29	10	<1	4	---	---	---	---	---	---	<1	
MW-1	03/31/92	100	7.02	92.98	ND	---	---	61	<0.5	<0.5	<1	---	---	<2.5	---	---	---	1.1	
MW-1	09/01/92	100	9.63	90.37	140	---	---	4	<0.5	<0.5	<1	---	---	---	---	---	---	---	
MW-1	04/01/93	99.54	8.30	91.24	130	---	---	2.2	0.57	<0.5	17	---	---	---	---	---	---	<2.0	
MW-1	09/01/93	99.54	9.52	90.02	89	---	---	24	<0.5	<0.5	3.6	---	---	---	---	---	---	---	
MW-1	04/18/94	99.54	7.41	92.13	<50	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	<2.4 c	
MW-1	10/10/94	99.54	11.02	88.52	2,900	---	---	1,500	530	1.9	440	---	---	---	---	---	---	---	
MW-1	01/09/95	99.54	7.96	91.58	<50	---	---	0.76	0.61	<0.5	2.2	---	---	---	---	---	---	---	
MW-1	04/10/95	99.54	6.91	92.63	<50	---	---	2.8	<0.5	<0.5	<1	---	---	---	---	---	---	---	
MW-1	08/18/95	99.54	8.71	90.83	<50	---	---	<0.5	<0.5	<0.5	<1.0	---	---	---	---	---	---	---	
MW-1	11/29/95	99.54	7.32	92.22	<50	---	---	<0.5	<0.5	<0.5	<1	---	---	---	---	---	---	---	
MW-1	02/12/96	---	---	---	ND	---	---	ND	ND	ND	ND	---	---	---	---	---	---	---	
MW-1	05/13/96	---	---	---	ND	---	---	ND	ND	ND	ND	---	---	---	---	---	---	---	
MW-1	05/20/97	---	---	---	Unable to locate - Covered with asphalt														
MW-3	08/09/90	98.32	6.05	92.27	---	---	---	<50	<50	<50	<50	---	---	---	---	---	---	---	
MW-3	05/09/91	98.32	3.78	94.54	<1,000	---	---	<1	<1	<1	<1	---	---	---	---	---	---	---	
MW-3	06/12/91	98.32	4.50	93.82	---	---	---	<1	<1	<1	<1	---	---	---	---	---	---	---	
MW-3	10/02/91	98.32	4.01	94.31	<1,000	---	---	<1	<1	<1	<1	---	---	---	---	---	---	<1	
MW-3	03/31/92	98.32	5.33	92.99	<50	---	---	<0.5	<0.5	<0.5	<1	---	---	---	---	---	---	1.2	
MW-3	09/01/92	98.32	7.97	90.35	<50	---	---	<0.5	<0.5	<0.5	<1	---	---	---	---	---	---	---	
MW-3	04/01/93	97.99	6.70	91.29	<50	---	---	0.53	2.5	ND	3.2	---	---	---	---	---	---	<2.0	
MW-3	09/01/93	97.99	7.90	90.09	<50	---	---	<0.5	<0.5	<0.5	<1	---	---	---	---	---	---	---	
MW-3	04/18/94	97.99	5.78	92.21	<50	---	---	<0.5	<0.5	<0.5	<1	---	---	---	---	---	---	4.4	
MW-3	10/10/94	97.99	9.37	88.62	<50	---	---	<0.5	<0.5	<0.5	<1	---	---	---	---	---	---	---	
MW-3	01/09/95	97.99	6.35	91.64	<50	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-3	04/10/95	97.99	5.32	92.67	---	---	---	<0.5	<0.5	<0.5	<1	---	---	---	---	---	---	---	
MW-3	08/18/95	97.99	7.08	90.91	<50	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-3	05/13/96	97.99	5.78	92.21	---	---	---	ND	ND	ND	ND	---	---	---	---	---	---	---	
MW-3	05/20/97	97.99	4.51	93.48	<50	---	---	<0.5	<0.5	<0.5	<1.0	---	---	<2	---	---	---	---	
MW-3	05/21/98	97.99	5.14	92.85	<50	---	---	<0.5	<0.5	0.67	1.98	---	---	<5	---	---	---	---	
MW-3	02/23/99	97.99	5.38	92.61	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-3	07/08/99	97.99	5.86	92.13	---	---	---	---	---	---	---	---	---	---	---	---	---	---	

**Summary of Groundwater Monitoring Data
Jackson's Food Store No. 600-5030
3315 172nd Street Northeast
Arlington, Washington**

Sample ID	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCs						OXYGENATES					Lead	
					TPHg	TPHd	TPHo	B	T	E	X	EDB	EDC	MTBE	TBA	DIPE	ETBE	TAME	Total	
Model Toxics Control Act Method A Cleanup Levels					800 ug/L	500 ug/L	500 ug/L	5 ug/L	1000 ug/L	700 ug/L	1000 ug/L	0.01 ug/L	5 ug/L	20 ug/L	NE ug/L	NE ug/L	NE ug/L	NE ug/L	NE ug/L	15 ug/L
MW-3	03/15/00	97.99	5.28	92.71	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-3	07/07/00	97.99	6.65	91.34	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-3	01/23/01	97.99	6.30	91.69	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-3	07/19/01	97.99	6.18	91.81	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-3	02/27/02	97.99	4.70	93.29	<50	---	---	<0.5	<0.5	<0.5	<1.00	---	---	---	---	---	---	---	---	
MW-3	07/12/02	97.99	6.08	91.91	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-3	01/09/03	97.99	7.19	90.80	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-3	07/15/03	97.99	6.94	91.05	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-3	01/19/04	97.99	6.02	91.97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-3	07/01/04	97.99	6.70	91.29	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-3	01/05/05	97.99	5.73	92.26	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-3	07/08/05	97.99	6.26	91.73	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-3	01/05/06	97.99	5.94	92.05	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-3	01/25/07	97.99	4.52	93.47	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-3	07/06/07	97.99	6.16	91.83	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-3	01/07/08	97.99	5.23	92.76	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-3	07/08/08	97.99	6.18	91.81	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-3	01/19/09	97.99	4.40	93.59	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-3	04/06/09	124.74	4.72	120.02	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-3	07/16/09	124.74	6.42	118.32	---	---	---	<0.5	<1	<1	<1	---	---	<1	<10	<2	<2	<2	1.38	
MW-3	10/07/09	124.74	7.75	116.99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-3	01/18/10	124.74	4.16	120.58	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-3	07/27/10	124.74	5.82	118.92	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-3	10/07/10	124.74	6.61	118.13	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-3	04/08/11	124.74	3.33	121.41	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-3	07/28/11	124.74	5.37	119.37	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-3	10/13/11	124.74	6.88	117.86	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-3	02/09/12	124.74	4.88	119.86	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-3	04/30/12	124.74	3.81	120.93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-3	07/20/12	124.74	4.96	119.78	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-3	10/01/12	124.74	6.71	118.03	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-3	01/09/13	124.74	3.44	121.30	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-3	04/09/13	124.74	4.22	120.52	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-3	07/22/13	124.74	6.00	118.74	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-3	10/17/13	124.74	6.76	117.98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-3	01/27/14	124.74	6.44	118.30	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	

**Summary of Groundwater Monitoring Data
Jackson's Food Store No. 600-5030
3315 172nd Street Northeast
Arlington, Washington**

Sample ID	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCs						OXYGENATES					Lead
					TPHg	TPHd	TPHo	B	T	E	X	EDB	EDC	MTBE	TBA	DIPE	ETBE	TAME	Total
Model Toxics Control Act Method A Cleanup Levels					800 ug/L	500 ug/L	500 ug/L	5 ug/L	1000 ug/L	700 ug/L	1000 ug/L	0.01 ug/L	5 ug/L	20 ug/L	NE ug/L	NE ug/L	NE ug/L	NE ug/L	15 ug/L
MW-3	04/11/14	124.74	5.86	118.88	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-3	07/09/14	124.74	5.84	118.90	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-3	10/02/14	124.74	6.72	118.02	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-3	01/05/15	124.74	4.02	120.72	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-3	04/14/15	124.74	7.85	116.89	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-3	07/08/15	124.74	6.79	117.95	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-3	02/18/16	124.74	3.32	121.42	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-3	05/12/16	124.74	5.03	119.71	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-3	09/16/16	124.74	7.30	117.44	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-3	12/12/16	124.74	4.03	120.71	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-3	03/14/17	124.74	3.55	121.19	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-3	06/07/17	124.74	5.03	119.71	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-3	12/12/18	124.74	5.90	118.84	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-4	08/09/90	99.53	7.32	92.21	---	---	---	<50	<50	<50	<50	---	---	---	---	---	---	---	
MW-4	05/09/91	99.53	5.00	94.53	<1,000	---	---	<1	<1	<1	<1	---	---	---	---	---	---	---	
MW-4	06/12/91	99.53	5.74	93.79	---	---	---	<1	1	<1	1	---	---	---	---	---	---	---	
MW-4	10/02/91	99.53	8.22	91.31	<1,000	---	---	<1	<1	<1	<1	---	---	---	---	---	---	<1	
MW-4	03/31/92	99.53	6.53	93.00	ND	---	---	<0.5	<0.5	<0.5	<1	---	---	---	---	---	---	<1	
MW-4	09/01/92	99.53	9.16	90.37	<50	---	---	<0.5	<0.5	<0.5	<1	---	---	---	---	---	---	---	
MW-4	04/01/93	99.12	7.90	91.22	ND	---	---	<0.5	<0.5	<0.5	<1	---	---	---	---	---	---	<2	
MW-4	09/01/93	99.12	8.09	91.03	ND	---	---	<0.5	<0.5	<0.5	<1	---	---	---	---	---	---	---	
MW-4	04/18/94	99.12	6.97	92.15	<50	---	---	<0.5	<0.5	<0.5	<1	---	---	---	---	---	---	<2.4 c	
MW-4	10/10/94	99.12	10.56	88.56	<50	---	---	<0.5	<0.5	<0.5	<1	---	---	---	---	---	---	---	
MW-4	01/09/95	99.12	7.52	91.60	<50	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-4	04/10/95	99.12	6.46	92.66	---	---	---	<0.5	<0.5	<0.5	<1	---	---	---	---	---	---	---	
MW-4	08/18/95	99.12	8.26	90.86	<50	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-4	05/13/96	99.12	6.97	92.15	---	---	---	ND	ND	ND	ND	---	---	---	---	---	---	---	
MW-4	05/20/97	99.12	5.64	93.48	<50	---	---	<0.5	<0.5	<0.5	<1	---	---	---	---	---	---	---	
MW-4	05/21/98	99.12	6.29	92.83	<50	---	---	<0.5	<0.5	<0.5	<1	---	---	<5	---	---	---	---	
MW-4	02/23/99	99.12	6.55	92.57	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-4	07/08/99	99.12	7.01	92.11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-4	03/15/00	99.12	6.43	92.69	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-4	07/07/00	99.12	7.80	91.32	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-4	01/23/01	99.12	7.44	91.68	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-4	07/19/01	99.12	7.36	91.76	---	---	---	---	---	---	---	---	---	---	---	---	---	---	

**Summary of Groundwater Monitoring Data
Jackson's Food Store No. 600-5030
3315 172nd Street Northeast
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Sample ID	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCs						OXYGENATES					Lead
					TPHg	TPHd	TPHo	B	T	E	X	EDB	EDC	MTBE	TBA	DIPE	ETBE	TAME	Total
Model Toxics Control Act Method A Cleanup Levels					800 ug/L	500 ug/L	500 ug/L	5 ug/L	1000 ug/L	700 ug/L	1000 ug/L	0.01 ug/L	5 ug/L	20 ug/L	NE ug/L	NE ug/L	NE ug/L	NE ug/L	15 ug/L
MW-4	02/27/02	99.12	5.88	93.24	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-4	07/12/02	99.12	7.21	91.91	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-4	01/09/03	99.12	8.33	90.79	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-4	07/15/03	99.12	8.09	91.03	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-4	01/19/04	99.12	7.18	91.94	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-4	07/01/04	99.12	7.83	91.29	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-4	01/05/05	99.12	6.93	92.19	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-4	07/08/05	99.12	7.44	91.68	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-4	01/05/06	99.12	7.07	92.05	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-4	01/25/07	99.12	5.67	93.45	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-4	07/06/07	99.12	7.38	91.74	<50	---	---	<0.5	<0.5	<0.5	<3	---	---	<5	<50	<1	<1	<1	
MW-4	01/07/08	99.12	6.46	92.66	<50	---	---	<0.5	<0.5	<0.5	<3	---	---	---	---	---	---	---	
MW-4	07/08/08	99.12	7.41	91.71	<50	---	---	<1	<1	<1	<1	---	---	<1	<5	<1	<1	<1	
MW-4	01/19/09	99.12	5.52	93.60	<100	---	---	<0.5	<1	<1	<1	---	---	---	---	---	---	---	
MW-4	04/06/09	125.87	5.87	120.00	<100	---	---	<0.5	<1	<1	<1	---	---	---	---	---	---	---	
MW-4	07/16/09	125.87	7.61	118.26	---	---	---	<0.5	<1	<1	<1	<0.01	<0.5	<1	<10	<2	<2	<2	
MW-4	10/07/09	125.87	8.97	116.90	<100	---	---	<0.5	<1	<1	<1	---	---	---	---	---	---	<1	
MW-4	01/18/10	125.87	5.33	120.54	<100	---	---	<0.50	<1.0	<1.0	<1.0	---	---	---	---	---	---	---	
MW-4	04/06/10	125.87	6.16	119.71	<100	---	---	<0.50	<1.0	<1.0	<1.0	---	---	---	---	---	---	---	
MW-4	07/27/10	125.87	6.99	118.88	<100	---	---	<0.50	<1.0	<1.0	<1.0	---	---	<1.0	<10	<2.0	<2.0	<2.0	
MW-4	10/07/10	125.87	7.75	118.12	<100	---	---	<0.50	<1.0	<1.0	<1.0	---	---	<1.0	<10	<2.0	<2.0	<2.0	
MW-4	04/08/11	125.87	4.45	121.42	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-4	07/28/11	125.87	6.61	119.26	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-4	10/13/11	125.87	8.03	117.84	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-4	02/09/12	125.87	6.08	119.79	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-4	04/30/12	125.87	5.08	120.79	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-4	07/20/12	125.87	5.98	119.89	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-4	10/01/12	125.87	7.94	117.93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-4	01/09/13	125.87	4.28	121.59	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-4	04/09/13	125.87	5.41	120.46	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-4	07/22/13	125.87	7.21	118.66	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-4	10/17/13	125.87	8.01	117.86	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-4	01/27/14	125.87	7.83	118.04	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-4	04/11/14	125.87	6.88	118.99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-4	07/09/14	125.87	7.01	118.86	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-4	10/02/14	125.87	7.91	117.96	---	---	---	---	---	---	---	---	---	---	---	---	---	---	

**Summary of Groundwater Monitoring Data
Jackson's Food Store No. 600-5030
3315 172nd Street Northeast
Arlington, Washington**

Sample ID	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCs						OXYGENATES					Lead
					TPHg	TPHd	TPHo	B	T	E	X	EDB	EDC	MTBE	TBA	DIPE	ETBE	TAME	Total
Model Toxics Control Act Method A Cleanup Levels					800 ug/L	500 ug/L	500 ug/L	5 ug/L	1000 ug/L	700 ug/L	1000 ug/L	0.01 ug/L	5 ug/L	20 ug/L	NE ug/L	NE ug/L	NE ug/L	NE ug/L	15 ug/L
MW-4	01/05/15	125.87	5.76	120.11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-4	04/14/15	125.87	6.22	119.65	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-4	07/08/15	125.87	7.98	117.89	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-4	02/18/16	125.87	4.54	121.33	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-4	05/12/16	125.87	6.28	119.59	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-4	09/16/16	125.87	8.48	117.39	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-4	12/12/16	125.87	5.20	120.67	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-4	03/14/17	125.87	4.82	121.05	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-4	06/07/17	125.87	5.22	120.65	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-4	12/12/18	125.87	7.10	118.77	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-5	08/09/90	100.37	8.33	92.04	<1,000	---	---	<1	<1	<1	<1	---	---	---	---	---	---	---	
MW-5	05/09/91	100.37	6.01	94.36	<1,000	---	---	14	<1	<1	3 j	---	---	---	---	---	---	---	
MW-5	06/12/91	100.37	6.60	93.77	<1,000	---	---	<1	<1	<1	<1	---	---	---	---	---	---	---	
MW-5	10/02/91	100.37	9.21	91.16	<1,000	---	---	<1	<1	<1	<1	---	---	---	---	---	---	<1	
MW-5	03/31/92	100.37	7.51	92.86	<50	<1,000 d	<1,000 d	23	<0.5	<0.5	0.92	---	---	---	---	---	---	1.7	
MW-5	09/01/92	100.37	10.08	90.29	57	---	---	30	<0.5	<0.5	4.7	---	---	---	---	---	---	---	
MW-5	04/01/93	99.92	8.76	91.16	70	---	---	1.7	<0.5	<0.5	<1	---	---	---	---	---	---	<2	
MW-5	09/01/93	99.92	10.00	89.92	ND	---	---	<0.5	<0.5	<0.5	<1	---	---	---	---	---	---	---	
MW-5	04/18/94	99.92	7.85	92.07	190	---	---	220	0.89	14	2.7	---	---	---	---	---	---	<2.4 c	
MW-5	08/01/94	99.92	10.11	89.81	190	---	---	0.67	<0.5	<0.5	<1	---	---	---	---	---	---	---	
MW-5	10/10/94	99.92	11.47	88.45	<50	---	---	<0.5	<0.5	<0.5	<1	---	---	---	---	---	---	---	
MW-5	01/09/95	99.92	8.43	91.49	ND	---	---	13	<0.5	<0.5	3	---	---	---	---	---	---	---	
MW-5	04/10/95	99.92	7.38	92.54	ND	---	---	45	<0.5	<0.5	<1.0	---	---	---	---	---	---	---	
MW-5	08/18/95	99.92	9.19	90.73	ND	---	---	<0.5	<0.5	<0.5	<1.0	---	---	---	---	---	---	---	
MW-5	11/29/95	99.92	7.81	92.11	<50	---	---	20	<0.5	<0.5	0.31	---	---	---	---	---	---	---	
MW-5	02/12/96	---	---	---	ND	---	---	200	ND	1	42	---	---	---	---	---	---	---	
MW-5	05/13/96	---	---	---	280	---	---	15	ND	ND	ND	---	---	---	---	---	---	---	
MW-5	05/20/97	99.92	6.68	93.24	ND	---	---	2.1	<0.5	<0.5	<0.5	---	---	<2	---	---	---	---	
MW-5	05/21/98	99.92	7.30	92.62	487	---	---	28.1	<0.5	5.53	50.9	---	---	<5	---	---	---	---	
MW-5	02/23/99	99.92	7.57	92.35	399	---	---	7.11	<0.5	7.41	50.5	---	---	<5	---	---	---	---	
MW-5	07/08/99	99.92	7.97	91.95	<50	---	---	<0.5	<0.5	<0.5	<1	---	---	---	---	---	---	---	
MW-5	03/15/00	99.92	7.34	92.58	<50	---	---	<0.5	<0.5	<0.5	<1	---	---	---	---	---	---	---	
MW-5	07/07/00	99.92	8.75	91.17	<50	---	---	<0.5	<0.5	<0.5	<1	---	---	---	---	---	---	---	
MW-5	01/23/01	99.92	8.34	91.58	<50	---	---	<0.5	<0.5	<0.5	<1	---	---	---	---	---	---	---	
MW-5	07/19/01	99.92	8.28	91.64	<50	---	---	<0.5	<0.5	<0.5	<1	---	---	---	---	---	---	---	

Summary of Groundwater Monitoring Data
Jackson's Food Store No. 600-5030
3315 172nd Street Northeast
Arlington, Washington

Sample ID	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCs						OXYGENATES					Lead
					TPHg	TPHd	TPHo	B	T	E	X	EDB	EDC	MTBE	TBA	DIPE	ETBE	TAME	Total
Model Toxics Control Act Method A Cleanup Levels					800 ug/L	500 ug/L	500 ug/L	5 ug/L	1000 ug/L	700 ug/L	1000 ug/L	0.01 ug/L	5 ug/L	20 ug/L	NE ug/L	NE ug/L	NE ug/L	NE ug/L	15 ug/L
MW-5	02/27/02	99.92	6.80	93.12	135	---	---	4.77	<0.5	2	23.4	---	---	---	---	---	---	---	
MW-5	07/12/02	99.92	8.15	91.77	<250	---	---	<1	<1	<1	<1	---	---	---	---	---	---	---	
MW-5	01/09/03	99.92	9.25	90.67	<250	---	---	<1	<1	<1	<1	---	---	---	---	---	---	---	
MW-5	07/15/03	99.92	9.02	90.90	<250	---	---	<1	<1	<1	<1	---	---	---	---	---	---	---	
MW-5	01/19/04	99.92	8.08	91.84	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-5	07/01/04	99.92	8.78	91.14	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-5	01/05/05	99.92	7.84	92.08	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-5	07/08/05	99.92	8.38	91.54	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-5	01/05/06	99.92	7.98	91.94	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-5	01/25/07	99.92	6.60	93.32	<50	---	---	<0.5	<0.5	<0.5	<3	---	---	---	---	---	---	---	
MW-5	07/06/07	99.92	8.42	91.50	<50	---	---	<0.5	<0.5	<0.5	<3	---	---	<5.00	<50	<1	<1	<1	
MW-5	01/07/08	99.92	7.49	92.43	5,340	---	---	6.92	7.78	10.1	80.7	---	---	---	---	---	---	---	
MW-5	07/08/08	99.92	8.28	91.64	<1	---	---	<1	<1	<1	<1	---	---	<1	<5	<1	<1	<1	
MW-5	01/19/09	99.92	6.40	93.52	<100	---	---	<0.5	<1	<1	<1	---	---	---	---	---	---	---	
MW-5	04/06/09	126.66	6.80	119.86	310	---	---	6	1.3	32	34	---	---	---	---	---	---	---	
MW-5*	07/16/09	126.66	8.54	118.12	<100	---	---	<0.5	<0.5	<0.5	0.42	<0.01	<0.5	<0.5	<10	<0.5	<0.5	<0.5	
MW-5	10/07/09	126.66	9.91	116.75	<100	<100	<100	1.1	<1	<1	<1	---	---	---	---	---	---	<1	
MW-5	01/18/10	126.66	6.24	120.42	220	---	---	1.1	<1.0	3.6	24	---	---	---	---	---	---	---	
MW-5	04/06/10	126.66	7.02	119.64	390	340	<100	10	2.3	64	97	---	---	---	---	---	---	---	
MW-5	07/27/10	126.66	7.92	118.74	<100	<100	<100	<0.50	<1.0	<1.0	<1.0	---	---	<1.0	<10	<2.0	<2.0	<2.0	
MW-5	10/07/10	126.66	8.69	117.97	<100	---	---	<0.50	<1.0	<1.0	<1.0	---	---	<1.0	<10	<2.0	<2.0	<2.0	
MW-5	04/08/11	126.66	5.41	121.25	<100	---	---	1.26	<1.00	4.42	4.83	---	---	---	---	---	---	---	
MW-5	07/28/11	126.66	7.56	119.10	<100	---	---	<1.00	<1.00	<1.00	<3.00	---	---	---	---	---	---	---	
MW-5	10/13/11	126.66	8.97	117.69	<100	---	---	<1.00	<1.00	<1.00	<3.00	---	---	<1.00	<10.0	<1.00	<1.00	<1.00	
MW-5	02/09/12	126.66	6.73	119.93	<100	---	---	<1.00	<1.00	<1.00	<3.00	---	---	---	---	---	---	---	
MW-5	04/30/12	126.66	5.69	120.97	245	---	---	<1.00	<1.00	5.21	20.6	---	---	---	---	---	---	---	
MW-5	07/20/12	126.66	6.90	119.76	<25	---	---	<1.0	<1.0	<1.0	<2.0	---	---	---	---	---	---	---	
MW-5	10/01/12	126.66	8.78	117.88	<100	---	---	<1.00	<1.00	<1.00	<3.00	---	---	<1.00	<10.0	<2.00	<1.00	<1.00	
MW-5	01/09/13	126.66	5.31	121.35	454	---	---	1.43	2.73	11.7	79.5	---	---	---	---	---	---	---	
MW-5	04/09/13	126.66	6.27	120.39	<100	---	---	<1.00	<1.00	<1.00	<3.00	---	---	---	---	---	---	---	
MW-5	07/22/13	126.66	8.20	118.46	<100	---	---	<1.00	<1.00	<1.00	<2.00	---	---	---	---	---	---	---	
MW-5	10/17/13	126.66	8.83	117.83	<100	---	---	<1.00	<1.00	<1.00	<2.00	---	---	<1.00	<10.0	<2.00	<1.00	<1.00	
MW-5	01/27/14	126.66	7.51	119.15	<100	---	---	<1.00	<1.00	3.33	9.02	---	---	---	---	---	---	---	
MW-5	04/11/14	126.66	6.46	120.20	125	---	---	<1.00	1.38	10.9	13.4	---	---	---	---	---	---	---	
MW-5	07/09/14	126.66	7.95	118.71	<100	---	---	<1.00	<1.00	<1.00	<2.00	---	---	---	---	---	---	---	
MW-5	10/02/14	126.66	8.84	117.82	<100	---	---	<1.00	<1.00	<1.00	<2.00	---	---	<1.00	<10.0	<2.00	<1.00	<1.00	
MW-5	01/05/15	126.66	6.08	120.58	307	---	---	2.25	<1.00	20.8	23.9	---	---	---	---	---	---	---	

Summary of Groundwater Monitoring Data
Jackson's Food Store No. 600-5030
3315 172nd Street Northeast
Arlington, Washington

Sample ID	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCs						OXYGENATES					Lead
					TPHg	TPHd	TPHo	B	T	E	X	EDB	EDC	MTBE	TBA	DIPE	ETBE	TAME	Total
Model Toxics Control Act Method A Cleanup Levels					800 ug/L	500 ug/L	500 ug/L	5 ug/L	1000 ug/L	700 ug/L	1000 ug/L	0.01 ug/L	5 ug/L	20 ug/L	NE ug/L	NE ug/L	NE ug/L	NE ug/L	15 ug/L
MW-5	04/14/15	126.66	7.04	119.62	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-5	07/08/15	126.66	8.91	117.75	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-5	02/18/16	126.66	5.41	121.25	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-5	05/12/16	126.66	7.19	119.47	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-5	09/16/16	126.66	9.38	117.28	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-5	12/12/16	126.66	6.09	120.57	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-5	03/14/17	126.66	5.69	120.97	<250	---	---	<0.50	1.1	3.9	23.4	---	---	---	---	---	---	---	
MW-5	06/07/17	126.66	7.19	119.47	<100	---	---	<1.0	<1.0	<1.0	<3.0	---	---	---	---	---	---	---	
MW-5	12/12/18	126.66	7.92	118.74	1,310	---	---	0.57	3.0	63.2	200	---	---	---	---	---	---	---	
MW-6	04/01/93	99.52	8.30	91.22	30,000	---	---	1,700	4,600	800	4,300	---	---	---	---	---	---	4.5	
MW-6	09/01/93	99.52	9.51	90.01	46,000	---	---	3,600	8,400	1,200	6,700	---	---	---	---	---	---	---	
MW-6	04/18/94	99.52	7.39	92.13	77,000	---	---	3,700	11,000	1,900	11,000	---	---	---	---	---	---	2.4	
MW-6	08/01/94	99.52	9.61	89.91	---	---	---	5,300	16,000	2,100	12,000	---	---	---	---	---	---	---	
MW-6	10/10/94	99.52	10.97	88.55	12,000	---	---	610	1,300	320	1,500	---	---	---	---	---	---	---	
MW-6	01/09/95	99.52	7.93	91.59	45,000	---	---	1,000	5,300	1,100	7,400	---	---	---	---	---	---	---	
MW-6	04/10/95	99.52	6.87	92.65	53,000	---	---	2,600	8,500	1,100	7,400	---	---	---	---	---	---	---	
MW-6	08/18/95	99.52	8.69	90.83	55,000	---	---	1,600	8,200	1,200	6,900	---	---	---	---	---	---	---	
MW-6	11/29/95	99.52	7.35	92.17	30,000	---	---	490	2,900	700	5,000	---	---	---	---	---	---	---	
MW-6	02/12/96	---	---	---	30,000	---	---	97	4,200	1,100	8,000	---	---	---	---	---	---	---	
MW-6	05/13/96	---	---	---	51,000	---	---	327	1,620	253	1,790	---	---	---	---	---	---	---	
MW-6	05/20/97	99.52	6.11	93.41	111,000	---	---	2,600	13,500	2,030	12,300	---	---	<400	---	---	---	---	
MW-6	05/21/98	99.52	6.74	92.78	104,000	---	---	4,100	18,800	2,490	15,200	---	---	<2,500	---	---	---	---	
MW-6	02/23/99	99.52	7.00	92.52	32,000	---	---	454	1,920	1,100	5,950	---	---	---	---	---	---	---	
MW-6	07/08/99	99.52	7.44	92.08	63,300	---	---	841	2,890	1,050	7,240	---	---	---	---	---	---	---	
MW-6	03/15/00	99.52	6.85	92.67	25,300	---	---	462	1,470	931	5,710	---	---	---	---	---	---	---	
MW-6	07/07/00	99.52	8.22	91.30	33,700	---	---	972	4,060	1,150	7,210	---	---	---	---	---	---	---	
MW-6	01/23/01	99.52	7.84	91.68	36,600	---	---	285	2,370	1,030	3,880	---	---	---	---	---	---	---	
MW-6	07/19/01	99.52	7.75	91.77	26,600	---	---	507	2,600	957	6,100	---	---	<5	---	---	---	---	
MW-6	02/27/02	99.52	6.27	93.25	20,200	---	---	243	806	985	5,120	---	---	---	---	---	---	---	
MW-6	07/12/02	99.52	7.65	91.87	28,000	---	---	190	870	610	4,300	---	---	---	---	---	---	---	
MW-6	01/09/03	99.52	8.74	90.78	38,000	---	---	190	2,300	880	5,400	---	---	---	---	---	---	---	
MW-6	07/15/03	99.52	8.51	91.01	50,000	---	---	350	4,200	1,200	7,400	---	---	---	---	---	---	---	
MW-6	01/19/04	99.52	7.59	91.93	31,000	---	---	130	1,100	710	4,800	---	---	---	---	---	---	---	
MW-6 a	07/01/04	99.52	8.28	91.24	32,000	---	---	210	2,800	1,100	7,100	---	---	---	---	---	---	---	
MW-6	01/05/05	99.52	7.35	92.17	21,000	---	---	87	1,000	810	5,500	---	---	---	---	---	---	---	

**Summary of Groundwater Monitoring Data
Jackson's Food Store No. 600-5030
3315 172nd Street Northeast
Arlington, Washington**

Sample ID	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCs						OXYGENATES					Lead
					TPHg	TPHd	TPHo	B	T	E	X	EDB	EDC	MTBE	TBA	DIPE	ETBE	TAME	Total
Model Toxics Control Act Method A Cleanup Levels					800 ug/L	500 ug/L	500 ug/L	5 ug/L	1000 ug/L	700 ug/L	1000 ug/L	0.01 ug/L	5 ug/L	20 ug/L	NE ug/L	NE ug/L	NE ug/L	NE ug/L	15 ug/L
MW-6	07/08/05	99.52	7.88	91.64	27,000	---	---	120	1,400	960	6,000	---	---	---	---	---	---	---	
MW-6	01/05/06	99.52	7.48	92.04	17,300	---	---	37.8	458	606	3,740	---	---	---	---	---	---	---	
MW-6	01/25/07	99.52	6.09	93.43	18,600	---	---	33.2	553	155	3,170	---	---	---	---	---	---	---	
MW-6	07/06/07	99.52	7.87	91.65	<50 b	---	---	<0.5 b	<0.5 b	<0.5 b	<3 b	---	---	<5	<50	<1.00	<1.00	<1.00	
MW-6	10/11/07	99.52	7.31	92.21	<250	---	---	81	2,760	1,340	8,690	---	---	---	---	---	---	---	
MW-6	01/07/08	99.52	6.84	92.68	12,600	---	---	10.8	134	204	1,710	---	---	---	---	---	---	---	
MW-6	07/08/08	99.52	7.76	91.76	7,900	---	---	19	310	320	1,770	---	---	<1	<5	<1	<1	<1	
MW-6	01/19/09	99.52	5.89	93.63	3,200	---	---	8.6	46	140	710	---	---	---	---	---	---	---	
MW-6	04/06/09	126.24	6.31	119.93	5,000	---	---	13	520	220	1,300	---	---	---	---	---	---	---	
MW-6	07/16/09	126.24	8.00	118.24	3,500	---	---	9	300	81	990	<0.01	<2.5	<5	<50	<10	<10	<10	
MW-6	10/07/09	126.24	9.27	116.97	7,900	---	---	13	350	390	2,600	---	---	---	---	---	---	<1	
MW-6	01/18/10	126.24	5.70	120.54	3,700	---	---	7.2	110	55	630	---	---	---	---	---	---	---	
MW-6	04/06/10	126.24	6.53	119.71	700	---	---	2.8	120	52	400	---	---	---	---	---	---	---	
MW-6	07/27/10	126.24	7.40	118.84	2,600	---	---	4.8	200	81	740	---	---	<1.0	<10	<2.0	<2.0	<2.0	
MW-6	10/07/10	126.24	8.14	118.10	2,800	---	---	6.9	110	130	620	---	---	<1.0	<10	<2.0	<2.0	<2.0	
MW-6	04/08/11	126.24	4.85	121.39	11,000	---	---	20.1	964	528	2,500	---	---	---	---	---	---	---	
MW-6	07/28/11	126.24	7.01	119.23	10,500	---	---	10.1	536	497	2,810	---	---	---	---	---	---	---	
MW-6	10/13/11	126.24	8.42	117.82	7,200	---	---	8.69	482	195	1,260	---	---	<1.00	<10.0	<1.00	<1.00	<1.00	
MW-6	02/09/12	126.24	6.46	119.78	5,090	---	---	8.25	244	185	891	---	---	---	---	---	---	---	
MW-6	04/30/12	126.24	5.21	121.03	2,950	---	---	1.13	36.5	15.3	343	---	---	---	---	---	---	---	
MW-6	07/20/12	126.24	6.40	119.84	4,700	---	---	<20	110	77	840	---	---	---	---	---	---	---	
MW-6	10/01/12	126.24	8.28	117.96	1,610	---	---	3.53	52.3	95.7	473	---	---	<1.00	<10.0	<2.00	<1.00	<1.00	
MW-6	01/09/13	126.24	4.78	121.46	481	---	---	<1.00	6.21	6.19	116	---	---	---	---	---	---	---	
MW-6	04/09/13	126.24	5.81	120.43	111	---	---	<1.00	<1.00	<1.00	18.1	---	---	---	---	---	---	---	
MW-6	07/22/13	126.24	7.60	118.64	4,840	---	---	3.88	136	112	1,170	---	---	---	---	---	---	---	
MW-6	10/17/13	126.24	8.31	117.93	4,890	---	---	5.00	173	153	937	---	---	<1.00	<10.0	<2.00	<1.00	<1.00	
MW-6	01/27/14	126.24	6.97	119.27	855	---	---	1.06	36.5	1.74	205	---	---	---	---	---	---	---	
MW-6	04/11/14	126.24	5.98	120.26	5,300	---	---	7.00	287	188	1,600	---	---	---	---	---	---	---	
MW-6	07/09/14	126.24	7.39	118.85	6,330	---	---	4.40	59.7	247	1,220	---	---	---	---	---	---	---	
MW-6	10/02/14	126.24	8.28	117.96	1,970	---	---	<1.00	152	62.3	447	---	---	<1.00	<10.0	<2.00	<1.00	<1.00	
MW-6	01/05/15	126.24	5.63	120.61	<100	---	---	<1.00	5.37	1.57	27.0	---	---	---	---	---	---	---	
MW-6	04/14/15	126.24	6.55	119.69	259	---	---	<1.00	5.33	2.67	36.4	---	---	---	---	---	---	---	
MW-6	07/08/15	126.24	8.40	117.84	1,180	---	---	<1.00	95.7	27.5	295	---	---	---	---	---	---	---	
MW-6	02/18/16	126.24	4.89	121.35	472	---	---	<1.0	11.3	8.2	53.6	---	---	---	---	---	---	---	
MW-6	05/12/16	126.24	6.66	119.58	1,100	---	---	<1.0	10.2	27.7	155	---	---	---	---	---	---	---	
MW-6	09/16/16	126.24	8.91	117.33	3,690	---	---	2.3	300	177	744	---	---	---	---	---	---	---	

**Summary of Groundwater Monitoring Data
Jackson's Food Store No. 600-5030
3315 172nd Street Northeast
Arlington, Washington**

Sample ID	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCs						OXYGENATES					Lead
					TPHg	TPHd	TPHo	B	T	E	X	EDB	EDC	MTBE	TBA	DIPE	ETBE	TAME	Total
Model Toxics Control Act Method A Cleanup Levels					800 ug/L	500 ug/L	500 ug/L	5 ug/L	1000 ug/L	700 ug/L	1000 ug/L	0.01 ug/L	5 ug/L	20 ug/L	NE ug/L	NE ug/L	NE ug/L	NE ug/L	15 ug/L
MW-6	12/12/16	126.24	5.58	120.66	3,130	---	---	1.6	89.4	9.4	555	---	---	---	---	---	---	---	---
MW-6	03/14/17	126.24	5.20	121.04	<250	---	---	<0.50	0.60	<0.50	3.5	---	---	---	---	---	---	---	---
MW-6	06/07/17	126.24	6.64	119.60	2,310	---	---	<1.0	20.4	46.3	185	---	---	---	---	---	---	---	---
MW-6	12/12/18	126.24	7.47	118.77	681	---	---	<0.50	5.3	9.2	93.0	---	---	---	---	---	---	---	---
MW-7	05/27/09	126.36	7.07	119.29	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	07/16/09	126.36	8.13	118.23	<100	---	---	<0.5	<1	<1	<1	---	---	<1	<10	<2	<2	<2	<1
MW-7	10/07/09	126.36	9.51	116.85	<100	---	---	<0.5	<1	<1	<1	---	---	---	---	---	---	---	<1
MW-7	01/18/10	126.36	5.94	120.42	<100	---	---	<0.50	<1.0	<1.0	<1.0	---	---	---	---	---	---	---	---

**Summary of Groundwater Monitoring Data
Jackson's Food Store No. 600-5030
3315 172nd Street Northeast
Arlington, Washington**

Sample ID	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCs						OXYGENATES					Lead
					TPHg	TPHd	TPHo	B	T	E	X	EDB	EDC	MTBE	TBA	DIPE	ETBE	TAME	Total
					800 ug/L	500 ug/L	500 ug/L	5 ug/L	1000 ug/L	700 ug/L	1000 ug/L	0.01 ug/L	5 ug/L	20 ug/L	NE ug/L	NE ug/L	NE ug/L	NE ug/L	15 ug/L
Model Toxics Control Act Method A Cleanup Levels																			
MW-7	04/06/10	126.36	6.79	119.57	<100	---	---	<0.50	<1.0	<1.0	<1.0	---	---	---	---	---	---	---	---
MW-7	07/27/10	126.36	7.61	118.75	<100	---	---	<0.50	<1.0	<1.0	<1.0	---	---	<1.0	<10	<2.0	<2.0	<2.0	---
MW-7	10/07/10	126.36	8.35	118.01	<100	---	---	<0.50	<1.0	<1.0	<1.0	---	---	<1.0	<10	<2.0	<2.0	<2.0	---
MW-7	04/08/11	126.36	5.03	121.33	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	07/28/11	126.36	7.22	119.14	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	10/13/11	126.36	8.36	118.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	02/09/12	126.36	6.68	119.68	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	04/30/12	126.36	5.42	120.94	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	07/20/12	126.36	6.61	119.75	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	10/01/12	126.36	8.49	117.87	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	01/09/13	126.36	4.94	121.42	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	04/09/13	126.36	6.00	120.36	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	07/22/13	126.36	7.81	118.55	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	10/17/13	126.36	8.51	117.85	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	01/27/14	126.36	6.83	119.53	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	04/11/14	126.36	5.62	120.74	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	07/09/14	126.36	7.64	118.72	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	10/02/14	126.36	8.48	117.88	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	01/05/15	126.36	5.87	120.49	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	04/14/15	126.36	6.80	119.56	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	07/08/15	126.36	8.56	117.80	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	02/18/16	126.36	5.11	121.25	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	05/12/16	126.36	6.88	119.48	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	09/16/16	126.36	9.08	117.28	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	12/12/16	126.36	5.78	120.58	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	03/14/17	126.36	5.40	120.96	<250	---	---	<0.50	<0.50	<0.50	<1.5	---	---	---	---	---	---	---	---
MW-7	06/07/17	126.36	6.84	119.52	<100	---	---	<1.0	<1.0	<1.0	<3.0	---	---	---	---	---	---	---	---
MW-7	12/12/18	126.36	7.63	118.73	<100	---	---	<0.50	<0.50	<0.50	<1.5	---	---	---	---	---	---	---	---

**Summary of Groundwater Monitoring Data
Jackson's Food Store No. 600-5030
3315 172nd Street Northeast
Arlington, Washington**

Sample ID	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCs						OXYGENATES					Lead
					TPHg	TPHd	TPHo	B	T	E	X	EDB	EDC	MTBE	TBA	DIPE	ETBE	TAME	Total
Model Toxics Control Act Method A Cleanup Levels					800	500	500	5	1000	700	1000	0.01	5	20	NE	NE	NE	NE	15
					ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L

Notes:

DTW = Depth to Water in feet

GWE = Groundwater Elevation in feet relative to arbitrary benchmarks; above mean see level after 04/06/09

TOC = Top of Casing in feet relative to arbitrary benchmark; above mean see level after 04/06/09

All results in micrograms per liter (µg/L) unless otherwise indicated.

TPHg = Total petroleum hydrocarbons as gasoline analyzed by NWTPH-Gx unless otherwise noted.

TPHg^a = The higher value is based on the assumption that no benzene is present in the groundwater sample. If any detectable amount of benzene is found, use the lower value.

TPHd = Total petroleum hydrocarbons as diesel, analyzed by WTPH-Dx unless otherwise noted.

TPHo = Total petroleum hydrocarbons as oil, analyzed by WTPH-Dx unless otherwise noted.

BTEX = Benzene, toluene, ethylbenzene, and xylenes analyzed by EPA Method 8260B unless otherwise noted.

Xylenes = o-xylene + m,p-xylene

EDB = 1,2-Dibromoethane analyzed by EPA Method 8260B

EDC = 1,2-Dichloroethane analyzed by EPA Method 8260B

MTBE = Methyl tertiary-butyl ether analyzed by EPA Method 8260B

TBA = Tertiary-butanol analyzed by EPA Method 8260B

DIPE = Di-isopropyl ether analyzed by EPA Method 8260B

ETBE = Ethyl tertiary-butyl ether analyzed by EPA Method 8260B

TAME = Tertiary-amyl methyl ether analyzed by EPA Method 8260B

Total lead analyzed by EPA Method 6020

<x = Not detected at laboratory reporting limit x

--- = Not analyzed or not available

Concentrations in bold type indicate the analyte was detected above MTCA Method A cleanup levels

ND = Not detected at a concentration above laboratory method reporting limit as previously reported by others.

* = Sample also analyzed for polychlorinated biphenyls (PCBs) by EPA Method 8082, and halogenated volatile organic compounds (HVOCs) by EPA Method 8260B. For those constituents analyzed, none of the concentrations

exceeded the laboratory method detection limits. Please see applicable laboratory report(s) for more information.

a = Samples received at laboratory at ambient temperature.

b = Based on historic BTEX and gasoline-range TPH concentrations, sample results appear suspect.

c = Lead data missing from lab report. <x value calculated from report, as 2.4 µg/L reported as a detection in report, and thus, ND values must be below this value.

d = Total petroleum oil hydrocarbons run by method WTPH-418.1. See laboratory report for more information.

j = Compound detected but below reportable limit.

e = The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon specified standard.

Appendices


Appendix A

Field Forms

WELL GAUGING DATA

Project # 181212-HPI Date 12/12/18 Client GHD

Site 3315 172nd St. NE, Arlington, WA

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or <u>TOC</u>	Notes
mn-3	0920	7					5.90	14.16		
mn-4	0927	7					7.10	14.60 14.83 14.80		
mn-5	0931	7					7.92	14.41		
mn-6	0933	7					7.47	14.99		
mn-7	0929	2					7.63	14.60		

LOW FLOW WELL MONITORING DATA SHEET

Project #: 181212-HP1	Client: GRD
Sampler: HP	Gauging Date: 12/12/18
Well I.D.: mw-5	Well Diameter (in.): 2 3 ④ 6 8
Total Well Depth (ft.): 17.41	Depth to Water (ft.): 7.92
Depth to Free Product: /	Thickness of Free Product (feet): /
Referenced to: ⑤VC Grade	Flow Cell Type: 451 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other
 Start Purge Time: 1015 Flow Rate: 100 mL/min Pump Depth: 12'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or μS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1021	11.16	6.00	116	19	2.02	-271	600	8.00
1024	11.27	5.92	116	10	1.05	-288	900	8.00
1027	11.59	5.91	117	9	0.96	-289	1200	8.00
1030	11.58	5.91	117	10	0.94	-290	1500	8.00
1033	11.51	5.92	117	9	0.90	-293	1800	8.00

Did well dewater? Yes <input checked="" type="checkbox"/> No	Amount actually evacuated: 1.8 L
Sampling Time: 1039	Sampling Date: 12/12/18
Sample I.D.: 6W-11119022-5030-12/12/18-mw-5	Laboratory: Pace
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: see C.O.C.
Equipment Blank I.D.: @	Duplicate I.D.: Time

LOW FLOW WELL MONITORING DATA SHEET

Project #: 181212-HPI	Client: GHD
Sampler: HP	Gauging Date: 12/12/18
Well I.D.: mw-5	Well Diameter (in.): 2 3 <u>(4)</u> 6 8
Total Well Depth (ft.): 17.41	Depth to Water (ft.): 7.92
Depth to Free Product: /	Thickness of Free Product (feet): /
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI 55b</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____

Start Purge Time: 1042 Flow Rate: 100 mL/min Pump Depth: 12'

Time	Temp. (<u>C</u> or °F)	pH	Cond. (mS/cm or <u>µS/cm</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to Water (ft.)
1048	11.73	5.83	85	16	1.85	-271	600	7.96
1051	11.77	5.81	86	11	1.05	-294	900	7.97
1054	11.83	5.80	85	10	0.72	-300	1200	7.97
1057	11.92	5.79	85	10	0.71	-301	1500	7.97
1100	11.90	5.79	85	10	0.66	-302	1800	7.97

Did well dewater? Yes <u>No</u>	Amount actually evacuated: <u>1.8 L</u>
Sampling Time: <u>1101</u>	Sampling Date: 12/12/18
Sample I.D.: <u>GW-11114022-5030-12/12/18-mw-5</u>	Laboratory: <u>Pace</u>
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: <u>See C.O.C.</u>
Equipment Blank I.D.: @	Duplicate I.D.: Time

Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112 (408) 573-0555

LOW FLOW WELL MONITORING DATA SHEET

Project #: 181212-1101	Client: GHD
Sampler: 110	Gauging Date: 12/12/18
Well I.D.: mw-7	Well Diameter (in.): 2 3 4 6 8
Total Well Depth (ft.): 17.60	Depth to Water (ft.): 7.63
Depth to Free Product: /	Thickness of Free Product (feet): /
Referenced to: PVC Grade	Flow Cell Type: 151 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other

Start Purge Time: 0943 Flow Rate: 100 mL/min Pump Depth: 12'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0949	11.16	6.25	123	55	1.28	-283	600	7.86
0952	11.53	6.17	122	22	1.03	-291	900	7.86
0955	11.66	6.15	122	19	0.98	-293	1200	7.86
0958	11.73	6.15	121	19	0.97	-293	1500	7.86
1001	11.80	6.15	121	20	0.96	-294	1800	7.86

Did well dewater? Yes <input checked="" type="radio"/> No	Amount actually evacuated: 1.8 L
Sampling Time: 1002	Sampling Date: 12/12/18
Sample I.D.: GW-11119022-5030-12/12/18-mw-7	Laboratory: Pace
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: see C.O.C.
Equipment Blank I.D.: @	Duplicate I.D.: Time

Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112 (408) 573-0555

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A

Required Client Information:

Company: **GHD**
Address: **20818 44TH AVE. STE 190**
LYNNWOOD, WA 98036
Email To: **BRIAN.PETERS@GHD.COM**
Phone: _____ Fax: _____
Requested Due Date/TAT: **STANDARD**

Section B

Required Project Information:

Report To: **BRIAN.PETERS@GHD.COM**
Copy To: **KEFFREY.CLOUD@GHD.COM**
Purchase Order No.: _____
Project Name: **JIS ARLINGTON**
Project Number: **1119022**

Section C

Invoice Information:

Attention: _____
Company Name: **GHD**
Address: _____
Pace Quote Reference: _____
Pace Project Manager: **JENNIFER GROSS**
Pace Profile #: **388515136121**

Page: **1** of **1**

2302754

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location: **ARLINGTON WA**
STATE: **WA**

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test ↓	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
					COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	TPH-G	BTEX		(5) Organates																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Patrick Ho / BlaineTechSoc	12/12/18	1800							

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: **Patrick Ho**

SIGNATURE of SAMPLER: 

DATE Signed (MM/DD/YY): **12/12/18**

Temp in °C

Received on Ice (Y/N)

Custody Sealed Cooler (Y/N)

Samples Intact (Y/N)

WELLHEAD INSPECTION FORM

Client: GHD Site: 3315 172nd St. NE, Arlington, WA Date: 12/12/18
 Job #: 181212-HPI Technician: HP Page 1 of 1

Well ID	Well Inspected - No Corrective Action Required	Check indicates deficiency										Well Not Inspected (explain in notes)	Notes <small>(list if cap or lick replaced, if there are access issues associated with repairs, if traffic control is required, if stand pipe damaged, or any specific details not covered by checklist)</small>		
		Cap non-functional	Lock non-functional	Lock missing	Bolts missing (list qty)	Tabs stripped (list qty)	Tabs broken (list qty)	Annular seal incomplete	Apron damaged	Rim / Lid broken	Trip Hazard			Below Grade	Other (explain in notes)
MW-3				X		2							X		water bailed
MW-4					2								X		water bailed
MW-5					2										water bailed
MW-6				X											
MW-7													X		water bailed

NOTES: _____

TEST EQUIPMENT CALIBRATION LOG

[illegible]

SPH or Purge Water Drum Log

Client: GHD

Site Address: 3315 172nd St. NE, Arlington, WA

STATUS OF DRUM(S) UPON ARRIVAL

Date	12/12/18					
Number of drum(s) empty:	0					
Number of drum(s) 1/4 full:	0					
Number of drum(s) 1/2 full:	0					
Number of drum(s) 3/4 full:	0					
Number of drum(s) full:	0					
Total drum(s) on site:	0					
Are the drum(s) properly labeled?	na					
Drum ID & Contents:	n/a					
If any drum(s) are partially or totally filled, what is the first use date:	n/a					

- If you add any SPH to an empty or partially filled drum, drum must have at least 20 gals. of Purgewater or DI Water.

-If drum contains SPH, the drum MUST be steel AND labeled with the appropriate label.

-All BTS drums MUST be labeled appropriately.

STATUS OF DRUM(S) UPON DEPARTURE

Date	12/12/18					
Number of drums empty:	0					
Number of drum(s) 1/4 full:	1					
Number of drum(s) 1/2 full:	0					
Number of drum(s) 3/4 full:	0					
Number of drum(s) full:	0					
Total drum(s) on site:	1					
Are the drum(s) properly labeled?	yes					
Drum ID & Contents:	Purge Water					

LOCATION OF DRUM(S)

Describe location of drum(s): Near MW-7 by dumpster enclosure

FINAL STATUS

Number of new drum(s) left on site this event	1					
Date of inspection:	12/12/18					
Drum(s) labelled properly:	yes					
Logged by BTS Field Tech:	HP					
Office reviewed by:						

Appendix B

Laboratory Analytical Reports

December 31, 2018

Brian Peters
GHD Services, Inc.
20818 44th Avenue W
Suite 190
Lynnwood, WA 98036

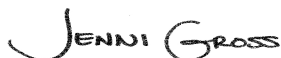
RE: Project: 11119022 JFS Arlington
Pace Project No.: 10459036

Dear Brian Peters:

Enclosed are the analytical results for sample(s) received by the laboratory on December 15, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jennifer Gross
jennifer.gross@pacelabs.com
(206)957-2426
Project Manager

Enclosures

cc: Emily Blakeway, GHD
Jeffrey Cloud, GHD Services Inc.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 11119022 JFS Arlington

Pace Project No.: 10459036

Minnesota Certification IDs

1700 Elm Street SE, Minneapolis, MN 55414-2485

A2LA Certification #: 2926.01

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009

Alaska DW Certification #: MN00064

Arizona Certification #: AZ0014

Arkansas DW Certification #: MN00064

Arkansas WW Certification #: 88-0680

California Certification #: 2929

CNMI Saipan Certification #: MP0003

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

EPA Region 8+Wyoming DW Certification #: via MN 027-053-137

Florida Certification #: E87605

Georgia Certification #: 959

Guam EPA Certification #: MN00064

Hawaii Certification #: MN00064

Idaho Certification #: MN00064

Illinois Certification #: 200011

Indiana Certification #: C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky DW Certification #: 90062

Kentucky WW Certification #: 90062

Louisiana DEQ Certification #: 03086

Louisiana DW Certification #: MN00064

Maine Certification #: MN00064

Maryland Certification #: 322

Massachusetts Certification #: M-MN064

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137

Minnesota Dept of Ag Certification #: via MN 027-053-137

Minnesota Petrofund Certification #: 1240

Mississippi Certification #: MN00064

Montana Certification #: CERT0092

Nebraska Certification #: NE-OS-18-06

Nevada Certification #: MN00064

New Hampshire Certification #: 2081

New Jersey Certification #: MN002

New York Certification #: 11647

North Carolina DW Certification #: 27700

North Carolina WW Certification #: 530

North Dakota Certification #: R-036

Ohio DW Certification #: 41244

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon NwTPH Certification #: MN300001

Oregon Secondary Certification #: MN200001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification #: MN00064

South Carolina Certification #: 74003001

Tennessee Certification #: TN02818

Texas Certification #: T104704192

Utah Certification #: MN00064

Virginia Certification #: 460163

Washington Certification #: C486

West Virginia DW Certification #: 9952 C

West Virginia DEP Certification #: 382

Wisconsin Certification #: 999407970

Wyoming UST Certification #: via A2LA 2926.01

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 11119022 JFS Arlington

Pace Project No.: 10459036

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10459036001	GW-11119022-5030-12/12/18-MW-6	Water	12/12/18 11:01	12/15/18 09:30
10459036002	GW-11119022-5030-12/12/18-MW-5	Water	12/12/18 10:34	12/15/18 09:30
10459036003	GW-11119022-5030-12/12/18-MW-7	Water	12/12/18 10:02	12/15/18 09:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 11119022 JFS Arlington

Pace Project No.: 10459036

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10459036001	GW-11119022-5030-12/12/18-MW-6	NWTPH-Gx	AG1	2	PASI-M
		EPA 8260B	DS2	7	PASI-M
10459036002	GW-11119022-5030-12/12/18-MW-5	NWTPH-Gx	AG1	2	PASI-M
		EPA 8260B	DS2	7	PASI-M
10459036003	GW-11119022-5030-12/12/18-MW-7	NWTPH-Gx	AG1	2	PASI-M
		EPA 8260B	DS2	7	PASI-M

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 11119022 JFS Arlington

Pace Project No.: 10459036

Method: NWTPH-Gx

Description: NWTPH-Gx GCV

Client: GHD Services Inc

Date: December 31, 2018

General Information:

3 samples were analyzed for NWTPH-Gx. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 11119022 JFS Arlington

Pace Project No.: 10459036

Method: EPA 8260B

Description: 8260B MSV Low Level

Client: GHD Services Inc

Date: December 31, 2018

General Information:

3 samples were analyzed for EPA 8260B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 581493

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10459036002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3152523)
 - Ethylbenzene
- MSD (Lab ID: 3152524)
 - Ethylbenzene

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 11119022 JFS Arlington

Pace Project No.: 10459036

Sample: GW-11119022-5030-12/12/18-MW-6		Lab ID: 10459036001	Collected: 12/12/18 11:01	Received: 12/15/18 09:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV		Analytical Method: NWTPH-Gx						
TPH as Gas	681	ug/L	200	2		12/24/18 16:09		
Surrogates								
a,a,a-Trifluorotoluene (S)	63	%.	50-150	2		12/24/18 16:09	98-08-8	
8260B MSV Low Level		Analytical Method: EPA 8260B						
Benzene	ND	ug/L	0.50	1		12/18/18 17:17	71-43-2	
Ethylbenzene	9.2	ug/L	0.50	1		12/18/18 17:17	100-41-4	
Toluene	5.3	ug/L	0.50	1		12/18/18 17:17	108-88-3	
Xylene (Total)	93.0	ug/L	1.5	1		12/18/18 17:17	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%.	75-125	1		12/18/18 17:17	17060-07-0	
Toluene-d8 (S)	103	%.	75-125	1		12/18/18 17:17	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	75-125	1		12/18/18 17:17	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 11119022 JFS Arlington

Pace Project No.: 10459036

Sample: GW-11119022-5030-12/12/18-MW-5		Lab ID: 10459036002	Collected: 12/12/18 10:34	Received: 12/15/18 09:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV		Analytical Method: NWTPH-Gx						
TPH as Gas	1310	ug/L	100	1		12/24/18 17:17		
Surrogates								
a,a,a-Trifluorotoluene (S)	64	%.	50-150	1		12/24/18 17:17	98-08-8	
8260B MSV Low Level		Analytical Method: EPA 8260B						
Benzene	0.57	ug/L	0.50	1		12/18/18 12:05	71-43-2	
Ethylbenzene	63.2	ug/L	0.50	1		12/18/18 12:05	100-41-4	M1
Toluene	3.0	ug/L	0.50	1		12/18/18 12:05	108-88-3	
Xylene (Total)	200	ug/L	1.5	1		12/18/18 12:05	1330-20-7	MS
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%.	75-125	1		12/18/18 12:05	17060-07-0	
Toluene-d8 (S)	102	%.	75-125	1		12/18/18 12:05	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	75-125	1		12/18/18 12:05	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 11119022 JFS Arlington

Pace Project No.: 10459036

Sample: GW-11119022-5030-12/12/18-MW-7		Lab ID: 10459036003	Collected: 12/12/18 10:02	Received: 12/15/18 09:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV		Analytical Method: NWTPH-Gx						
TPH as Gas	ND	ug/L	100	1		12/22/18 03:36		
Surrogates								
a,a,a-Trifluorotoluene (S)	56	%.	50-150	1		12/22/18 03:36	98-08-8	
8260B MSV Low Level		Analytical Method: EPA 8260B						
Benzene	ND	ug/L	0.50	1		12/18/18 16:53	71-43-2	
Ethylbenzene	ND	ug/L	0.50	1		12/18/18 16:53	100-41-4	
Toluene	ND	ug/L	0.50	1		12/18/18 16:53	108-88-3	
Xylene (Total)	ND	ug/L	1.5	1		12/18/18 16:53	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%.	75-125	1		12/18/18 16:53	17060-07-0	
Toluene-d8 (S)	103	%.	75-125	1		12/18/18 16:53	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	75-125	1		12/18/18 16:53	460-00-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 11119022 JFS Arlington
Pace Project No.: 10459036

QC Batch: 582255 Analysis Method: NWTPH-Gx
QC Batch Method: NWTPH-Gx Analysis Description: NWTPH-Gx Water
Associated Lab Samples: 10459036003

METHOD BLANK: 3156150 Matrix: Water
Associated Lab Samples: 10459036003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH as Gas	ug/L	ND	100	12/22/18 02:28	
a,a,a-Trifluorotoluene (S)	%.	73	50-150	12/22/18 02:28	

METHOD BLANK: 3156151 Matrix: Water
Associated Lab Samples: 10459036003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH as Gas	ug/L	ND	100	12/22/18 02:45	
a,a,a-Trifluorotoluene (S)	%.	65	50-150	12/22/18 02:45	

LABORATORY CONTROL SAMPLE & LCSD: 3156152		3156153								
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
TPH as Gas	ug/L	1000	957	961	96	96	41-137	0	20	
a,a,a-Trifluorotoluene (S)	%.				64	73	50-150			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3156905				3156906								
Parameter	Units	10459403002	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual	
		Result	Spike Conc.	Spike Conc.								Result
TPH as Gas	ug/L	ND	1000	1000	1120	1010	112	101	30-145	10	30	
a.a.a-Trifluorotoluene (S)	%.						71	68	50-150			

SAMPLE DUPLICATE: 3156907

Parameter	Units	10459834001 Result	Dup Result	RPD	Max RPD	Qualifiers
TPH as Gas	ug/L	ND	ND		30	
a,a,a-Trifluorotoluene (S)	%.	47	55	16		

SAMPLE DUPLICATE: 3156908

Parameter	Units	10459403004 Result	Dup Result	RPD	Max RPD	Qualifiers
TPH as Gas	ug/L	ND	ND		30	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 11119022 JFS Arlington

Pace Project No.: 10459036

SAMPLE DUPLICATE: 3156908

Parameter	Units	10459403004 Result	Dup Result	RPD	Max RPD	Qualifiers
a,a,a-Trifluorotoluene (S)	%.	59	58	2		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 11119022 JFS Arlington

Pace Project No.: 10459036

QC Batch: 582587

Analysis Method: NWTPH-Gx

QC Batch Method: NWTPH-Gx

Analysis Description: NWTPH-Gx Water

Associated Lab Samples: 10459036001, 10459036002

METHOD BLANK: 3157791

Matrix: Water

Associated Lab Samples: 10459036001, 10459036002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH as Gas	ug/L	ND	100	12/24/18 15:35	
a,a,a-Trifluorotoluene (S)	%.	69	50-150	12/24/18 15:35	

LABORATORY CONTROL SAMPLE & LCSD: 3157792

3157793

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
TPH as Gas	ug/L	1000	1080	989	108	99	41-137	9	20	
a,a,a-Trifluorotoluene (S)	%.				99	74	50-150			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3157848

3157849

Parameter	Units	10459403007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH as Gas	ug/L	302	1000	1000	1320	1280	101	98	30-145	3	30	
a,a,a-Trifluorotoluene (S)	%.						89	89	50-150			

SAMPLE DUPLICATE: 3157850

Parameter	Units	10459403008 Result	Dup Result	RPD	Max RPD	Qualifiers
TPH as Gas	ug/L	ND	ND		30	G-
a,a,a-Trifluorotoluene (S)	%.	71	66	7		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 11119022 JFS Arlington

Pace Project No.: 10459036

QC Batch: 581493 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260 MSV LL Water
Associated Lab Samples: 10459036001, 10459036002, 10459036003

METHOD BLANK: 3152521 Matrix: Water

Associated Lab Samples: 10459036001, 10459036002, 10459036003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	0.50	12/18/18 10:02	
Ethylbenzene	ug/L	ND	0.50	12/18/18 10:02	
Toluene	ug/L	ND	0.50	12/18/18 10:02	
Xylene (Total)	ug/L	ND	1.5	12/18/18 10:02	
1,2-Dichloroethane-d4 (S)	%.	101	75-125	12/18/18 10:02	
4-Bromofluorobenzene (S)	%.	101	75-125	12/18/18 10:02	
Toluene-d8 (S)	%.	97	75-125	12/18/18 10:02	

LABORATORY CONTROL SAMPLE: 3152522

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	19.5	97	75-125	
Ethylbenzene	ug/L	20	19.7	99	75-125	
Toluene	ug/L	20	20.3	101	75-125	
Xylene (Total)	ug/L	60	60.1	100	75-125	
1,2-Dichloroethane-d4 (S)	%.			100	75-125	
4-Bromofluorobenzene (S)	%.			100	75-125	
Toluene-d8 (S)	%.			100	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3152523 3152524

Parameter	Units	10459036002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	0.57	20	20	20.1	19.9	98	97	74-125	1	30	
Ethylbenzene	ug/L	63.2	20	20	64.3	73.9	5	53	75-125	14	30	M1
Toluene	ug/L	3.0	20	20	23.1	22.7	101	99	74-125	1	30	
Xylene (Total)	ug/L	200	60	60	220	234	33	57	75-125	6	30	ES,MS
1,2-Dichloroethane-d4 (S)	%.						102	101	75-125			
4-Bromofluorobenzene (S)	%.						100	103	75-125			
Toluene-d8 (S)	%.						101	100	75-125			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 11119022 JFS Arlington

Pace Project No.: 10459036

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

ES The reported result is estimated because one or more of the constituent results are qualified as such.

G- Early peaks present outside the GRO window.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

MS Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result.

REPORT OF LABORATORY ANALYSIS

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METHOD CROSS REFERENCE TABLE

Project: 11119022 JFS Arlington

Pace Project No.: 10459036

Parameter	Matrix	Analytical Method	Preparation Method
8260B MSV Low Level	Water	SW-846 8260B/5030B	N/A

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE


Project: 11119022 JFS Arlington

Pace Project No.: 10459036

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10459036001	GW-11119022-5030-12/12/18-MW-6	NWTPH-Gx	582587		
10459036002	GW-11119022-5030-12/12/18-MW-5	NWTPH-Gx	582587		
10459036003	GW-11119022-5030-12/12/18-MW-7	NWTPH-Gx	582255		
10459036001	GW-11119022-5030-12/12/18-MW-6	EPA 8260B	581493		
10459036002	GW-11119022-5030-12/12/18-MW-5	EPA 8260B	581493		
10459036003	GW-11119022-5030-12/12/18-MW-7	EPA 8260B	581493		

REPORT OF LABORATORY ANALYSIS

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	Document Name: Sample Condition Upon Receipt Form	Document Revised: 31Oct2018 Page 1 of 2
	Document No.: F-MN-L-213-rev.24	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt Client Name: <u>GHD</u> Project #: <u>WO# : 10459036</u> Courier: <input checked="" type="checkbox"/> Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> USPS <input type="checkbox"/> Client <input type="checkbox"/> Commercial <input type="checkbox"/> Pace <input type="checkbox"/> Speedee <input type="checkbox"/> Other: Tracking Number: <u>4486 7787 1501</u> PM: JMG Due Date: 12/31/18 CLIENT: GHD_WA

Custody Seal on Cooler/Box Present? ☒ Yes ☐ No Seals Intact? ☒ Yes ☐ No Optional: Proj. Due Date: Proj. Name:

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other: Temp Blank? ☐ Yes ☒ No

Thermometer ☐ G87A9170600254 Type of Ice: ☒ Wet ☐ Blue ☐ None ☐ Dry ☐ Melted
 Used: ☒ G87A9155100842

Cooler Temp Read (°C): 2.2 Cooler Temp Corrected (°C): 2.2 Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A
 Temp should be above freezing to 6°C Correction Factor: True Date and Initials of Person Examining Contents: HF 12/15/18

USDA Regulated Soil ☒ N/A, water sample
 Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐ Yes ☐ No Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

		COMMENTS:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved container
Is sufficient information available to reconcile the samples to the COC? Matrix: <u>WT</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12.
All containers needing acid/base preservation have been checked?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH Positive for Res. Chlorine? Y N
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ <2pH, NaOH >9 Sulfide, NaOH >12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Sample #
Headspace in VOA Vials (>6mm)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Initial when completed: Lot # of added preservative:
Trip Blank Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Pace Trip Blank Lot # (if purchased): <u>NA</u>		

CLIENT NOTIFICATION/RESOLUTION
 Person Contacted: Emily Blakeway Date/Time: 12/20/18 Field Data Required? ☐ Yes ☐ No
 Comments/Resolution: 8260 should only list BTEX.

Project Manager Review: [Signature] Date: 12/17/18
 Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled by: [Signature]



about GHD

GHD is one of the world's leading professional services companies operating in the global markets of water, energy and resources, environment, property and buildings, and transportation. We provide engineering, environmental, and construction services to private and public sector clients.

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