

# Groundwater Monitoring Work Plan

Former Chevron Station 97502 640 Metcalf Street Sedro-Woolley, Washington 98284 FSID: 61112475 CSID: 6368

Project number: 60742607

April 28, 2025

#### Quality information

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### **Acronyms and Abbreviations**

Arcadis Arcadis U.S., Inc.

bgs below ground surface

CEMC Chevron Environmental Management Company

City City of Sedro-Woolley

COC contaminant of concern

CRA Conestoga-Rovers and Associates

CSM conceptual site model

Draft FS Report Draft for Agency Review - Feasibility Study Report

Draft Work Plan Draft Groundwater Monitoring Work Plan

**Ecology** Washington State Department of Ecology

Guidance on Remediation of Petroleum-Contaminated Groundwater by Natural **Ecology Guidance** 

Attenuation (Publication No. 05-09-091)

MNA monitored natural attenuation

**MTCA** Model Toxics Control Act

No. Number

property Former Chevron Station 97502 located at 640 Metcalf Street in Sedro-Woolley,

Washington (Skagit County Tax Parcel Identifications 77454, 77455, and 77456)

site property and surrounding right-of-way areas

**USEPA** United States Environmental Protection Agency

UST underground storage tank

Work Plan Groundwater Monitoring Work Plan

### 1. Introduction

On behalf of Chevron Environmental Management Company (CEMC), AECOM has prepared this *Groundwater Monitoring Work Plan* (Work Plan) for Former Chevron Station 97502, located at 640 Metcalf Street in Sedro-Woolley, Washington and surrounding right-of-way areas (site; Figure 1). This Work Plan is based on the *Draft Groundwater Monitoring Work Plan* (Draft Work Plan) prepared by Arcadis U.S., Inc. (Arcadis) and dated November 5, 2024 (Arcadis 2024a). Since submission of the Draft Work Plan, AECOM took over as CEMC's environmental consultant for the site. AECOM received Washington State Department of Ecology's (Ecology's) comments on the Draft Work Plan via email on January 30, 2025, and this Work Plan was revised based on these comments.

The site, as defined by the Model Toxics Control Act (MTCA), is an area where a hazardous substance, other than a consumer product in consumer use, has been deposited, stored, disposed of, placed, or otherwise come to be located. The site is defined in Agreed Order (AO) Number (No.) DE 18034 as the property (lots 77454, 77455, and 77456) and surrounding right-of-way areas (Ecology 2020). Potentially Liable Persons for the site are CEMC and the City of Sedro-Woolley (City). The property is currently owned by the City and is occupied by Hammer Heritage Square, a public city park (Arcadis 2024a). A site location map is presented on Figure 1, and a site plan is included as Figure 2. Site regulatory identifiers include Cleanup Site Identification No. 6368 and Facility Site Identification No. 61112475.

On May 30, 2024, Arcadis submitted a *Draft for Agency Review – Feasibility Study Report* (Draft FS Report) for the site to Ecology which identified and evaluated remedial action alternatives for site cleanup (Arcadis 2024b). Based on the potential receptors and exposure pathways for the contaminants of concern (COCs) remaining in soil and groundwater, monitored natural attenuation (MNA), coupled with institutional controls, was the recommended remedial alternative for site cleanup. Via email correspondence, Ecology provided comments on the Draft FS Report on September 16, 2024, with one comment noting that geochemical parameters should be collected to assess current attenuation processes prior to considering MNA as a viable remedial alternative for site cleanup.

The purpose of this Work Plan is to present a monitoring plan consistent with the requirements of Ecology's *Guidance on Remediation of Petroleum-Contaminated Groundwater by Natural Attenuation* (Publication No. 05-09-091) (Ecology Guidance; Ecology 2005) to assess the viability of long-term MNA as a remedial alternative for the site. This plan aims to meet the following objectives:

- Show that natural attenuation processes are occurring at the site by collecting and analyzing data to confirm
  these natural attenuation processes are reducing contaminant concentrations.
- Demonstrate that these natural attenuation processes will continue to occur at rates sufficient to achieve cleanup objectives within a reasonable timeframe.
- Ensure that the natural attenuation processes will be adequately protective of human health and the
  environment during the cleanup period. This evaluation includes demonstrating that there are no
  unacceptable risks to human health or the environment from the contaminants during the attenuation
  process.

#### 1.1 Site Background

The property and surrounding area have been developed for commercial uses since at least the early 1900s. Historical ownership and land use of the property are described below, including known historical petroleum activities and/or spills.

The earliest known development of the property occurred in 1905 with the construction of the Seidell Building. Before it burned down in 1949, the Seidell Building was used for various commercial businesses, including a bank, lawyer's office, barber shop, tailor, and stores for sporting goods, liquor, and general retail (Ecology 2020).

The property was redeveloped as a service station around 1950, becoming the Gateway Service Station in 1953. In 1965, Standard Oil Company of California (predecessor to Chevron) acquired the Gateway Service Station property, remodeled, and took over operations (Ecology 2020).

On July 25, 1989, approximately 100 gallons of unleaded gasoline was spilled when an underground storage tank (UST) overflowed during filling. The spilled gasoline flowed south down the gutter along Metcalf Street to

Ferry Street and entered a catch basin at the northwestern corner of the intersection of Metcalf and Ferry streets. The gasoline was flushed from the stormwater drainage system on July 25 and 26, 1989 (Conestoga-Rovers & Associates [CRA] 2008).

Service station operations ended in early 1992, and all USTs and associated equipment were removed by February 1992. An estimated eight USTs were historically present at the service station, which included three gasoline USTs (one 3,000-gallon supreme-unleaded gasoline UST; one 6,500-gallon unleaded gasoline UST; and one 8,000-gallon leaded gasoline UST), as well as one 550-gallon heating-oil UST; one 550-gallon used-oil UST; and one 300-gallon kerosene UST. One 300-gallon UST and one 100-gallon UST were also removed; the contents were unknown (EMCON 1993). The service station also included two pump islands, two hydraulic hoists, and associated underground piping (Ecology 2020). The City purchased the lots that comprise the property in several transactions between 1997 and 2000 and constructed Hammer Heritage Square in 2005 (Ecology 2020).

Hammer Heritage Square is primarily paved with concrete pavers and includes a gazebo, planter and landscaped areas, public restrooms, and a clock tower. The park is the location of Sedro-Woolley Farmers Market and other community events (Ecology 2020). There are 17 site groundwater monitoring wells: 10 on-property and seven offproperty.

#### 1.2 Site Geology

Geology at the site consists of silt and sandy gravels to 20 feet below ground surface (bgs). Lithology observed at monitoring wells MW-9, MW-10, and MW-11 was generally consistent with historical findings. Silt was encountered at 5 to 5.5 feet bgs; silt and well-graded gravel was encountered at 10 and 15 feet bgs, and poorly and well-graded gravel was encountered at 18 to 20 feet bgs (Arcadis 2024a).

The topography at the site generally slopes to the east and southeast. The Yakima and Columbia Rivers intersect south-southeast of the site (Arcadis 2024a).

#### Site Hydrogeology 1.3

Groundwater monitoring began at the site in 1992 and continued until September 2014, when it was put on hold until 2020. The previous monitoring frequency was typically quarterly; however, multiple years only had semiannual sampling (Arcadis 2024a).

- Monitoring network: 14 groundwater monitoring wells were originally installed at the site. Wells MW-1 through MW-5 were installed in February 1991, and MW-1 through MW-3 were decommissioned in 1992. Wells MW-6 through MW-9 were installed in October 1991. Well MW-9 was decommissioned in 2001. Wells MW-10 and MW-11 were installed in July 2002. Wells MW-12 through MW-14 were installed in May 2006. The remaining groundwater monitoring wells were regularly sampled until 2014. Seven additional wells (MW-15 through MW-21) were installed in September 2021 and quarterly groundwater sampling resumed at
- Observed depth to water: Depth to water at the site averages between 6 and 16 feet bgs (Arcadis 2024a).
- Groundwater elevation: Groundwater elevation ranges from approximately 43 to 52 feet above mean sea level (Arcadis 2024a).
- Groundwater flow direction: Groundwater flow direction at the site is primarily toward the south-southwest and has varied from south-southeast to south-southwest (see rose diagram on Figure 3) (Arcadis 2024a).

The approximate monitoring well locations are shown on Figure 2. Historical groundwater gauging and sampling results are summarized in Table 1, and gauging results from December 2021 are depicted on Figure 3. The approximate extent of COCs in relation to MTCA Method A cleanup levels (CULs) for December 2021 is depicted on Figure 4 (Arcadis 2022).

### **Proposed Site Remedy**

MNA is defined as the reliance on natural attenuation processes (within the context of a carefully controlled and monitored site cleanup approach) to achieve site-specific remediation objectives within a timeframe that is reasonable compared to that offered by other, more active methods. The natural attenuation processes include a

variety of physical, chemical, or biological processes that, under favorable conditions, act to reduce the mass, toxicity, mobility, volume, or concentration of COCs in groundwater. These in-situ processes include diffusion, dilution, sorption, biodegradation, volatilization, and chemical and/or biological stabilization, transformation, or destruction of COCs.

Natural attenuation processes are typically occurring at all sites, but to varying degrees of effectiveness depending on the types and concentrations of contaminants present, and the physical, chemical, and biological characteristics of the soil and groundwater.

#### 2.1 MNA Assessment

Natural attenuation is the reduction in concentrations of COCs in groundwater over time due to naturally occurring physical, chemical, and biological processes. Natural attenuation processes include both destructive (e.g., biodegradation, abiotic degradation) and non-destructive (e.g., dispersion, dilution, adsorption, volatilization) processes. Destructive processes are generally preferred in support of natural attenuation because they transform potentially harmful COCs into innocuous end products. However, non-destructive processes may also play an important role in decreasing COC concentrations to levels that are acceptable.

The United States Environmental Protection Agency's (USEPA's) tiered lines of evidence approach (USEPA 1999) will be applied to evaluate the viability of MNA as a remedy at the site. The tiers of evidence for this approach include:

- Historical groundwater data that demonstrate a clear and significant trend of decreasing contaminant mass and/or concentration over time at appropriate monitoring points;
- Hydrogeologic and geochemical data that can be used to demonstrate indirectly the types of natural
  attenuation processes active at a site, and the rate at which such processes will reduce contaminant
  concentrations to required levels; and
- 3. Data from field studies that directly demonstrate the occurrence of particular natural attenuation processes at a site and their ability to degrade COCs.

The first tier of evidence is the most critical, as it indicates whether attenuation processes, acting together, result in the meaningful reduction of COCs in groundwater under site conditions. This line of evidence is established based on statistical analysis of concentration trends. The second tier of evidence is developed based on assessment of the groundwater geochemical conditions to ascertain which attenuation processes the environment is conducive to, and whether expected degradation products of specific reactions are observed. Rates at which attenuation processes are expected to reduce contaminant concentrations to required levels are assessed based on statistical trend analysis, as applicable. The third tier of evidence is not required in all cases, particularly when effective natural attenuation is firmly demonstrated based on the first two lines of evidence. If there is an initial lack of sufficient evidence under the first two tiers that MNA is proceeding as expected, then additional data may be collected to fulfill the third line of evidence.

The Ecology Guidance was also used to develop this preliminary MNA evaluation and will guide implementation and assessment. This guidance stipulates evaluation of the following five factors:

- Demonstration that, prior to relying solely on natural attenuation to achieve cleanup standards, the groundwater plume is stable or shrinking;
- Demonstration that destructive mechanisms of natural attenuation (i.e., chemical or biological degradation)
  are occurring and are substantial contributors to contaminant reductions observed at the site;
- 3. Demonstration that the estimated restoration timeframe by natural attenuation is reasonable;
- Demonstration that natural attenuation is protective of human health and the environment during the restoration time frame; and
- 5. Demonstration that source control is achieved to the maximum extent practicable.

This preliminary MNA evaluation is aimed at demonstrating the stability of COCs in groundwater and understanding the contributing attenuation mechanisms at the site. The results from geochemical parameter sampling provide a line of evidence that natural attenuation is supported by destructive biodegradation. Source control is achieved based on removal of the primary sources (USTs and other service station infrastructure) and absence of any significant remaining secondary source material.

### 3. Monitoring Plan

The following section details the proposed monitoring plan to evaluate the processes of natural attenuation in site groundwater. A Sampling and Analysis Plan is included as Table 2.

#### 3.1 Baseline Groundwater Monitoring

Baseline groundwater monitoring will be conducted in the first year. The entire remaining site monitoring well network (MW-4 through MW-8 and MW-10 through MW-21) will continue to be gauged and sampled quarterly with laboratory analysis/field measurement for site COCs and primary geochemical parameters. Secondary geochemical parameters (defined in Table 2) will also be analyzed during this period to evaluate natural attenuation processes at a select number of wells, including the following:

- Upgradient well: MW-6;
- Source area wells: MW-7, MW-8, MW-13, and MW-17;
- Impacted center-line plume wells: MW-10, MW-11, and MW-14;
- Crossgradient wells: MW-12 and MW-18; and
- Downgradient sentinel well: MW-19.

### 3.2 Groundwater Performance Monitoring

Following four quarters of baseline groundwater monitoring, provided that the plume is determined to be shrinking or stable during the first year and quarterly monitoring indicates semi-annual monitoring will provide sufficient data, performance monitoring will then be conducted on a semi-annual basis for 2 years. Following 2 years of semi-annual performance monitoring, and provided that the plume is determined to be shrinking or stable during the first 3 years and semi-annual monitoring indicates annual monitoring will provide sufficient data, the frequency of monitoring may be reduced to an annual basis for subsequent years.

During the performance monitoring phase, the entire site monitoring well network will be gauged and sampled. Laboratory analysis/field measurement for site COCs and primary geochemical parameters will continue for the entire site monitoring well network. Secondary geochemical parameters will also be analyzed during this period to evaluate natural attenuation processes at a select number of wells, including the following:

- Upgradient well: MW-6;
- Source area wells: MW-7, MW-8, MW-13, and MW-17;
- Impacted center-line plume wells: MW-10, MW-11, and MW-14; and
- Downgradient sentinel well: MW-19.

Following the first year of baseline groundwater monitoring and 4 years of performance monitoring, if it is concluded that the monitoring well network may be reduced and still provide sufficient data to demonstrate MNA is occurring at the site, a request to reduce the number of sampled monitoring wells may be submitted to Ecology.

#### 3.3 Groundwater Sampling Methodology

Each well will be gauged and sampled using low-flow methodology with a peristaltic pump. Primary geochemical parameters including pH, temperature, conductivity, turbidity, dissolved oxygen, and oxidation-reduction potential will be measured during the purging process with a YSI multiparameter water quality meter (or equivalent) and flow-through cell. Prior to collecting samples, field parameters will be allowed to stabilize in accordance with the USEPA 2017 Low Stress Purging and Sampling Procedures for the Collection of Groundwater Samples from Monitoring Wells (USEPA 2017). Further details regarding the field procedures and stabilization criteria are included in the monitoring well sampling standard operating procedure attached as Appendix A.

### 3.4 Investigation-Derived Waste

Purge water generated during groundwater monitoring activities will be transported off-site for proper disposal.

### 4. Contingency Plan

Ecology guidance recommends the development of a site-specific contingency plan that describes monitoring results that would trigger additional action. Triggers for the site would include:

- Evidence of increased contaminant concentrations within the plume;
- Evidence of plume expansion or plume migration to a sentinel well;
- Evidence of new or renewed releases of contaminants;
- Evidence that biodegradation is not occurring; or
- Evidence that contaminant concentrations are not decreasing at a sufficiently rapid rate to achieve cleanup standards within the acceptable restoration time frame.

This contingency plan includes tiered contingent actions dependent on the trigger condition.

In the cases that evidence of statistically increasing concentration trends are observed within the plume, evidence of plume expansion or migration to a sentinel well, and/or evidence of a new or renewed release of contaminants is discovered, the following contingency actions may be implemented:

- Modify the performance monitoring plan to provide for additional wells and/or more frequent sampling or additional parameters to enhance the ability to evaluate the progress of natural attenuation and any potential threats posed to receptors;
- If data gaps are identified following modifications of the performance monitoring plan, conduct additional site investigation to re-evaluate the conceptual site model (CSM); and
- Based on the results of additional site investigation and updated CSM, the selected site remedy may be reevaluated at that time if warranted.

If, following 1 year of baseline monitoring and 4 years of performance monitoring, evidence suggests that biodegradation is not occurring and/or contaminant concentrations are not decreasing at a sufficiently rapid rate to achieve cleanup standards within an acceptable restoration time frame, the following contingency actions may be implemented:

- Modify the performance monitoring plan to provide for additional wells and/or more frequent sampling or additional parameters to enhance the ability to evaluate the progress of natural attenuation and any potential threats posed to receptors; and
- Following modifications of the performance monitoring plan, if evidence remains that biodegradation is not
  occurring and/or contaminant concentrations are not decreasing (i.e., MNA does not appear to be occurring)
  or MNA is not occurring at a sufficient rate to meet a reasonable timeframe, the selected site remedy will be
  re-evaluated at that time.

### 5. Data Evaluation and Reporting

Results of the groundwater monitoring and sampling events will be evaluated to demonstrate that natural attenuation is occurring at the site. Following four quarters of baseline monitoring, an MNA analysis will be included in a revised Draft FS Report and submitted to Ecology for approval. The MNA analysis will include documentation of a stable or decreasing plume using COC concentration iso-contour figures, time-series plots of COC concentrations and measured depth to water, a linear regression analysis for site COCs at select monitoring wells, and discussion of water quality and observed trends.

### 6. References

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USEPA. 2017. Low Stress Purging and Sampling Procedures for the Collection of Groundwater Samples from Monitoring Wells. September 19.

### **Tables**

Table 1 Historical Groundwater Gauging Data and Select Analytical Results Former Chevron Service Station 97502 640 Metcalf Street, Sedro-Woolley, Washington

										640 M	etcalf Street, Sedro-We	oolley, Washington								
Well	Date	TOC (ft NAVD 88)	DTP (ft)	DTW (ft)	GWE (ft NAVD 88)	NAPL Thickness (ft)	GRO (μg/L)	DRO (µg/L)	DRO w/ Silica Gel (µg/L)	HRO (µg/L)	HRO w/ Silica Gel (μg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (μg/L)	MTBE (μg/L)	Dissolved Lead (μg/L)	Total Lead (µg/L)	EDB (µg/L)	Comments
		M	TCA Method	A CULs			800/1,000	500	500	500	500	5	1000	700	1000	20	15	15	0.01	
GB-1	4/1/2008		-		-		<250	150		110	-	<4	<4	<4	<4	<4		-	<4*	
GB-2	4/2/2008	-	-		-		100 [130]	330		<98	-	<0.5 [<0.5]	<0.5 [<0.5]	<0.5 [<0.5]	<0.5 [<0.5]	<0.5 [<0.5]		8.5	-	
GB-3	4/1/2008	-	-		-		79.0	88.0		<94.0	-	<0.5	<0.5	0.7	<0.5	<0.5		-	-	
GB-4	4/1/2008	-	-		-	-	<50.0	<81.0		<100.0	_	<0.5	<0.5	<0.5	<0.5	<0.5		-	-	
GB-5	4/2/2008		-		-	-	1,100	990		<97.0	_	<0.5	<0.5	<0.5	<0.5	<0.5		27.8	-	
MW-4	1/29/1992	-	-		_	-	14,000	ND	-	ND	_	4,400	340	2,000	1,600	_		_	_	
MW-4 MW-4	9/25/1992 2/24/1993	56.37 56.37	-	10.42	45.95	-	25,000 7,970	5,060 3,460		ND ND	-	2,800 352	830 2	4,600 418	4,000 1,360	-	-	-	-	
MW-4 MW-4	5/17/1993 8/2/1993	56.37 56.37	-	10.20 10.44	46.17 45.93		9,180	2,630 1,390	-	ND ND	-	314	281	981	1,610	-		-	-	
MW-4 MW-4	8/24/1993	56.37 56.37	-	-	43.93	-	14,900		-	 ND	-	152	614	499 79	2,880	-	-	-	-	
MW-4	11/3/1993 2/15/1994	56.37	-	11.67 11.54	44.83	-	16,100 16,300	1,092 1,070		ND	-	114 203	552	210	1,980 1,810	-		-	-	
MW-4 MW-4	5/20/1994 8/23/1994	56.37 56.37	-	11.00 11.84	45.37 44.53	-	11,400 12,400	1,230 830	-	ND ND	-	92.2 67.1	357 489	20 77	612 1,740	-		-	-	
MW-4 MW-4	11/16/1994 2/10/1995	56.37 56.37	-	11.23	45.14	-	11,000	1,700	-	 ND	-	95	160	310	890	-	-	 ND	-	
MW-4	5/12/1995	56.37	-	10.80	45.57	-	12,000	1,600	-	ND	-	55	34	380	890	-	-	ND	-	
MW-4 MW-4	8/11/1995 11/2/1995	56.37 56.37	-	11.40 11.73	44.97 44.64	-	11,000 12,000	1,000 1,400	-	ND 940	-	27 24	33 24	340 220	980 430	-		ND ND	-	
MW-4 MW-4	1/31/1996 5/9/1996	56.37 56.37	-	9.62 9.88	46.75 46.49	-	<b>6,200</b> 97.7	900 253	-	ND	-	17 1.7	6.4 0.975	250 7.01	410 78	-	-	-	-	
MW-4 MW-4	2/3/1997 8/5/1997	56.37 56.37	-	8.83 10.10	47.54 46.27		ND 172	ND ND		ND ND ND	-	ND 0.876	ND 0.635	2.1 7.36	1.98	-		-	-	
MW-4	2/11/1998	56.37	-	9.97	46.40	-	ND	ND	-	ND	_	1.15	0.975	0.997	2.66	-	-	-	-	
MW-4 MW-4	8/27/1998 3/13/2000	56.37 56.37	-	9.75	46.62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-4 MW-4	9/19/2000 3/20/2001	56.37 56.37	-	10.71 10.45	45.66 45.92		-	-			-	-	-		-	-	-	-	-	
MW-4 MW-4	8/21/2001 7/2/2005	56.37 56.37	-	11.08 7.86	45.29 48.51		<48	-	 <80	-	<100	<0.5	<0.5	<0.5	<0.5	<0.5		3.3	<0.5*	
MW-4	9/15/2005 12/31/2005	56.37	-	8.93	47.44 47.73	-	1,200	-	310	-	<100 <100 <100	<0.5	< 0.5	<0.5	<0.5	< 0.5	<0.87	1.2	-0.3	
MW-4 MW-4	3/11/2006	56.37 56.37	-	8.64 8.00	47.73	-	<48 <48	-	<82 <81	-	<100 <100	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.87 <0.87	<0.87	-	
MW-4 MW-4	6/13/2006 8/10/2006	56.37 56.37	-	7.59 8.58	48.78 47.79	-	<48	-	<82	-	<100	<0.5	< 0.5	<0.5	<0.5	< 0.5	<0.51	< 0.51	-	
MW-4 MW-4	12/5/2006 1/24/2007	56.37 56.37	-	8.48 7.71	47.89 48.66		<260	79 J		<260	-	<1.0	<1.0	<1.0	<3.0	<1.0	0.085 BJ	4.8 B	-	
MW-4	5/8/2007	56.37	-	7.92	48.45	-	110	<130	-	-	-	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	3.5	-	
MW-4 MW-4	6/4/2007 9/5/2007	56.37 56.37	-	9.72 8.76	46.65 47.61	-	-	-	-	-	-	-	-	-	-	-		-	-	
MW-4 MW-4	12/19/2007 3/6/2008	56.37 56.37	-	9.07 7.78	47.30 48.59		-	-		-	-		-		-	-	-	-	-	
MW-4 MW-4	6/16/2008 9/11/2008	56.37 56.37		7.08 7.35	49.29 49.02		-		-		-	-	-	-	-	-		-		
MW-4	11/20/2008	56.37	-	7.38	48.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-4 MW-4	3/4/2009 6/4/2009	56.37 56.37	-	6.89 7.21	49.48 49.16		-	-		-	-	-	-	-	-	-		-	-	
MW-4 MW-4	9/22/2009 9/23/2009	56.37 56.37	-	9.04	47.33	-	<50	110		<70	-	-	-	-	_	-	-	-	-	
MW-4	10/1/2009	56.37	-	9.80	46.57	-	2,000	520	-	<67	-	-	-	-	-	-	-	-	_	
MW-4 MW-4	10/8/2009 10/15/2009	56.37 56.37	-	10.11 10.18	46.26 46.19	-	330 420	570 1,000		<69 <66	-	-	-	-	-	-		-	-	
MW-4 MW-4	10/22/2009 11/18/2009	56.37 56.37	-	10.03 9.11	46.34 47.26	-	370 1,500	1,100 860		<66 <70	-	-	-	-	-	-		-	-	
MW-4 MW-4	12/3/2009 12/16/2009	56.37 56.37	-	8.16	48.21		<50	 53 J		 <69	-		-	-	-	-		-	-	
MW-4	1/27/2010	56.37	-	8.50	47.87	-	58		<30	-09	<70		-	-	_	-	-	-		
MW-4 MW-4	2/12/2010 3/30/2010	56.37 56.37	-	8.60 7.66	47.77 48.71		<50 63	-	<30 <30	-	<69 <69	-	-	-	-	-	-	-	-	
MW-4 MW-4	6/18/2010 9/2/2010	56.37 56.37	-	7.80 9.33	48.57 47.04	-	<50 1,600	770	<30	<71	<69	-	-	-	-	-		-	-	
MW-4 MW-4	12/7/2010	56.37 56.37	-	9.33	47.04 49.39		440 <50	-	320 <30	-	<72 <69		-		-	-	-	-	-	
MW-4	6/9/2011	56.37	-	6.48	49.89	-	110	-	37	-	73	-	-	-	-	-	-	-	-	
MW-4 MW-4	9/16/2011 12/13/2011	56.37 56.37	-	8.10 8.65	48.27 47.72	-	<50 530	-	<31 <29	-	870 <68	-	-	-	-	-	-	-	-	
MW-4 MW-4	12/19/2011 3/15/2012	56.37 56.37	-	8.65 9.75	47.72 46.62		<50	-	<30	-	 <69	-	-	-	-	-		-	-	
MW-4 MW-4	6/13/2012 9/10/2012	56.37 56.37	-	7.00 8.40	49.37 47.97		<50 160		<30 74	-	<71 <69		-		-	-		-	-	
MW-4	12/10/2012	56.37	-	7.31	49.06	-	<50	-	<30	-	<69	-	-	-	_	-	-	-	-	
MW-4 MW-4	3/11/2013 6/12/2013	56.37 56.37	-	6.68 6.91	49.69 49.46	-	<50 <50	<28	<29	<66	<67	-	-	-	_	-	-	-	-	
MW-4 MW-4	9/18/2013 12/11/2013	56.37 56.37	-	8.08 7.64	48.29 48.73		150 <50	120 <28	-	<67 <66	-	-	-	-	-	-		-	-	
MW-4 MW-4	3/12/2014 9/27/2014	56.37 56.37	-	7.64 8.11	48.73 48.26	-	-	-	-	-	-	-	-		-	-	-	-	-	
MW-4	8/17/2020	56.37	-	8.62	47.75	-	37.1 BJ	<66.7 440	-	<83.3	_	<0.0941	<0.278	< 0.137	<0.174	-	-	<2.95	-	
MW-4 MW-4	9/28/2021 12/14/2021	56.42 56.42	-	9.80 7.39	46.62 49.03		8,850 <31.6	224	-	<250 123 J	-	<1.00 <0.0941	<1.00 <0.278	<1.00 <0.137	<3.00 0.402 J	<1.00 <0.101	<2.99	<6.00	_	
MW-4 MW-4	2/16/2022 6/6/2022	56.42 56.42	-	7.10 7.25	49.32 49.17	-	<31.6 51.1 B J [<31.6]	<66.7 78.1 J [<66.7]	-	115 J <83.3 [239 J]	-[-]	<0.0941 <0.0941 [<0.0941]	<0.278 <0.278 [<0.278]	<0.137 <0.137 [<0.137]	0.391 J <0.174 [<0.174]	<0.101 <0.101 [<0.101]	<0.849 <0.849 [<0.849]	-[-]	[]	
MW-4 MW-4	9/27/2022	56.42 56.42	-	9.14 8.62	47.28 47.80		63.1 J 47.4 B J	172 J 164 J		169 J <250	-	<1.00 <1.00	<1.00 <1.00	<1.00 <1.00	<3.00	<1.00	<2.00 <2.00		-	
MW-4	3/22/2023	56.42	-	8.42	48.00	-	<100	<200	-	<250	-	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	-	-	
MW-4 MW-4	6/20/2023 9/11/2023	56.42 56.42	-	9.02 10.22	47.40 46.20	-	<100 [<100] 76.3 J	201 [149 J] 532	-[-]	<250 [94.5 J] <83.3	[-]	<1.00 [<1.00] <0.0941	<1.00 [<1.00] <0.278	<1.00 J3 [<1.00 J3] <0.137	<3.00 [<3.00] <0.174	<1.00 [<1.00] <0.101	1.70 J [1.38 J] 1.50 B J	-[-]	[] 	
MW-4 MW-4	12/14/2023 2/20/2024	56.42 56.42	-	9.71 8.78	46.71 47.64	-	43.0 B J 60.0 B J J3	847 163 J	-	<83.3 92.8 J	-	<0.0941 <0.0941	<0.278 <0.278	<0.137 <0.137	0.255 J <0.174	<0.101 <0.101	5.01 <0.849	-	-	
21 14-4	2/20/2024	30.42	-	0.70	47.04		00.0 15 7 55	1033		74.0 J	_	~0.0941	~0.278	~0.137	NO.174	~0.101	~0.047	1 -		

Table 1 Historical Groundwater Gauging Data and Select Analytical Results Former Chevron Service Station 97502 640 Metcalf Street, Sedro-Woolley, Washington

										640 M	etcalf Street, Sedro-We	oolley, Washington								
Well	Date	TOC (ft NAVD 88)	DTP (ft)	DTW (ft)	GWE (ft NAVD 88)	NAPL Thickness (ft)	GRO (μg/L)	DRO (µg/L)	DRO w/ Silica Gel (µg/L)	HRO (μg/L)	HRO w/ Silica Gel (μg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (μg/L)	Total Xylenes (μg/L)	MTBE (μg/L)	Dissolved Lead (µg/L)	Total Lead (µg/L)	EDB (µg/L)	Comments
			TCA Method			(10)	800/1,000	500	500	500	500	5	1000	700	1000	20	15	15	0.01	
MW-4 MW-4	6/11/2024 9/16/2024	56.42 56.42	-	9.09 9.06	47.33 47.36	-	<31.6 89.8 B J	<66.7 350	-	<83.3 <83.3	-	<0.0941 <0.0941	<0.278 <0.278	<0.137 <0.137	<0.174 <0.174	<0.101	<0.849 <0.849	-	-	i i
MW-5	1/29/1992						2,000	2,000		ND		345	32	213	95					-
MW-5	9/25/1992	56.54	-	-	-	-	2,740	4,100	-	ND	-	833	80	491	172	-	-	-	-	
MW-5 MW-5	2/24/1993 5/17/1993	56.54 56.54	-	9.35 9.21	47.19 47.33	-	509 ND	6,620 410	-	ND ND	-	254 15.5	ND ND	7 2	6 2	-	-	-		
MW-5	8/2/1993	56.54	-	9.59	46.95	-		ND	-	ND	-		-		-	_	-	-	-	
MW-5 MW-5	8/24/1993 11/3/1993	56.54 56.54	-	11.00	45.54	-	260 1,780	1,800	-	 ND	-	62 243	8	ND 38	9 27	-		-	-	
MW-5	2/15/1994	56.54	-	10.76	45.78		950	1,610	-	ND	-	914	165	49	148	-		-	-	
MW-5 MW-5	5/20/1994 8/23/1994	56.54 56.54	-	10.15 10.95	46.39 45.59	-	3,180 3,310	2,200 2,160	-	ND ND	-	599 701	108 140	22 45	129 207	_	-	-	-	
MW-5	11/16/1994 2/10/1995	56.54 56.54	-	11.22 10.36	45.32 46.18	-	1,090 4,200	1,620 2,000	-	ND 310	-	258 560	54 24	15 140	135 180	-	-	 ND	-	-
MW-5	5/12/1995	56.54	-	9.86	46.68	-	1,200	2,200	-	ND	-	480	13	110	120	-	-	ND	-	
MW-5 MW-5	8/11/1995 11/2/1995	56.54 56.54	-	10.68 10.89	45.86 45.65	-	4,400 4,600	1,700 1,800	-	ND ND	-	400 500	14 16	140 110	180 160	-		ND ND	-	
MW-5	1/31/1996	56.54	-	8.40	48.14	-			-	-	-		-			_	-	-	-	
MW-5 MW-5	5/9/1996 2/3/1997	56.54 56.54	-	8.73 7.20	47.81 49.34	-		-	-	-	-	-	-	-	-	-		-	-	
MW-5	8/5/1997	56.54	-	9.36	47.18	-				-	-		-		-	-		-	-	
MW-5 MW-5	2/11/1998 8/27/1998	56.54 56.54	-	10.14	46.40	-	-	-	-	-	-	-	-	-	-	-		-	-	
MW-5 MW-5	1/19/1999 8/30/1999	56.54 56.54	-	8.31 9.58	48.23 46.96	-	-	-	-	-	-	-	-		-	-		-	-	
MW-5	3/13/2000	56.54 56.54	_	9.58 8.57	46.96 47.97	-	-	-	-		-	-	-		-	-	-		_	
MW-5	9/19/2000	-	-		-			-	-	-	-		-		-	-		-	-	Well inaccessible Well inaccessible
MW-5	8/21/2001			-		-	-		-		-	-	-	-	-	-	-		_	Well inaccessible Well inaccessible
MW-5 MW-5	3/11/2002 7/3/2002	56.54 56.54	-	8.50 8.96	48.04 47.58	-	<50 <50	-	<250 <250	-	<750° <750°	<0.50 <0.50	<0.50 <0.50	<0.50 <0.50	<1.5 <1.5	<2.5 <2.5	-	-		
MW-5	9/13/2002	56.54	-	10.43	46.11	-	72	-	<250	-	<250	0.85	< 0.50	<0.50	<1.5	<2.5	-	-	-	
MW-5 MW-5	12/16/2002 3/6/2003	56.54 56.54	-	10.59 9.84	45.95 46.70	-	730 <50	-	820 <250	-	<250 <250	80 0.54	1.6 <0.50	6.7 <0.50	<1.5 <1.5	<5.0 <2.5		-	-	
MW-5	6/4/2003	56.54	-	9.30	47.24		<50	-	<250	-	<250	5.3	< 0.5	<0.5	<1.5	<2.5		-	-	-
MW-5 MW-5	9/11/2003 12/17/2003	56.54 56.54	-	10.86 8.86	45.68 47.68	-	990 <50	-	1,300 <250	-	<250 <250	110 <0.5	1.7 <0.5	7.7 <0.5	<1.5 <1.5	<2.5 <2.5		-	-	
MW-5 MW-5	3/17/2004 6/11/2004	56.54 56.54	-	8.22	48.32	-	<50 <50	-	<250	-	<250	< 0.5	< 0.5	< 0.5	<1.5	<2.5	-	-	-	-
MW-5	9/21/2004	56.54	-	8.42	48.12	-	-	-	<250	-	<250	<0.5	<0.5	<0.5	<1.5	<2.5	-	-	-	Well inaccessible
MW-5	12/21/2004 7/2/2005	56.54 56.54	-	6.85 8.31	49.69 48.23	-	<50 <48	-	<250 100	-	<250 <100	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<1.5	<2.5 <0.5	-	4.1	<0.5*	
MW-5	9/15/2005	56.54	-	9.48	47.06	-	130	-	100	-	<98	< 0.5	< 0.5	<0.5	<0.5	<0.5	-	4.7		
MW-5 MW-5	12/31/2005 3/11/2006	56.54 56.54	-	8.98 8.18	47.56 48.36	-	<48 <48	-	<80 <80	-	<100 <100	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.87 <0.87	2.7 1.3	-	
MW-5	6/13/2006	56.54	-	7.89	48.65	-	<48	-	<79	-	<99	<0.5	<0.5	<0.5	<0.5	<0.5	<0.51	< 0.51	-	
MW-5 MW-5	8/10/2006 12/5/2006	56.54 56.54	-	8.90 8.82	47.64 47.72	-	100	64 J	-	90	_	<1.0	0.071 J	<1.0	<3.0	<1.0	0.050 BJ	12 B	-	
MW-5 MW-5	1/24/2007 5/8/2007	56.54 56.54	-	8.13 8.19	48.41 48.35		58	<130	-	-	-	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	18	-	-
MW-5	6/4/2007	56.54	-	8.59	47.95	-			-	-	-	~1.0	-	~1.0	-2.0	-			-	
MW-5	9/5/2007 12/19/2007	56.54 56.54	-	9.07 9.24	47.47 47.30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-5	3/6/2008	56.54	-	8.22 7.04	48.32				-	-	-	-	-	-	-	-		-	-	
MW-5 MW-5	6/16/2008 9/11/2008	56.54 56.54	-	7.48	49.50 49.06	-	-	-	-	-	_	-	_	-	-	_	-	-	-	
MW-5 MW-5	11/20/2008 3/4/2009	56.54 56.54	-	7.45 6.92	49.09 49.62		-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-5	6/4/2009	56.54	-	7.30	49.24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-5 MW-5	12/3/2009 3/30/2010	56.54 56.54	-	8.38 7.65	48.16 48.89	-		-	-	-	-	-	-		-	-		-	-	
MW-5	6/18/2010	56.54	-	8.07	48.47	-	-	-	-	-	_	-	-	-	-	-	-	-	-	
MW-5 MW-5	9/2/2010 12/7/2010	56.54 56.54	-	9.64 9.56	46.90 46.98	-	-	-	-	-	-	-	-	-	-	-		-	-	
MW-5 MW-5	3/7/2011 6/9/2011	56.54 56.54	-	7.10 6.41	49.44 50.13	-	-		-	-	-	-	-	-	-	-	-	-	-	
MW-5	9/16/2011	56.54	-	8.40	48.14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-5 MW-5	12/13/2011	56.54 56.54	-	9.00 8.90	47.54 47.64		-	-	-	-	-		-		-	-		-	-	
MW-5	3/15/2012	56.54	-	8.80	47.74	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-5 MW-5	6/13/2012 9/10/2012	56.54 56.54	-	7.15 8.76	49.39 47.78	-	-	-	-	-	-	-	-	-	-	-		-	-	
MW-5	12/10/2012	56.54	-	7.82	48.72	-	-	-	-	-	-	-	-		-	-		-	-	
MW-5 MW-5	3/11/2013 6/12/2013	56.54 56.54	-	6.98 7.22	49.56 49.32		-	-	-	-	-		-		-	-	-	-	-	
MW-5	9/18/2013 12/11/2013	56.54 56.54	-	8.60 8.10	47.94 48.44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	·
MW-5	3/12/2014	56.54	-	8.86	47.68	-	-	-	_	-	_	-	-	-	_	-	-	-	-	
MW-5	9/27/2014 8/18/2020	56.54 56.54	-	8.63 9.03	47.91 47.51		 92.8 BJ	 121 J	-	<83.3	-	<0.0941	<0.278	<0.137	<0.174	-	-	9.29	-	
MW-5	9/28/2021	56.53	-	10.25 7.52	46.28	-	539	305	-	<250	-	<1.00	<1.00	0.593 J	1.36J	<1.00		<6.00	-	
MW-5 MW-5	12/16/2021 2/16/2022	56.53 56.53	-	7.20	49.01 49.33	-	<31.6 55.8 B J	74.9 J <66.7	-	104 J 112 J	-	<0.0941 <0.0941	<0.278 <0.278	<0.137 <0.137	<0.174 <0.174	<0.101 <0.101	<2.99 <0.849	-	-	
MW-5	6/6/2022 9/27/2022	56.53 56.53	-	7.33 9.60	49.20 46.93	-	50.4 B J [<31.6] 67.3 J	<66.7 [<66.7] 133 J	-	<83.3 [281] 214 J	[-]	< 0.0941 [< 0.0941]	<0.278 [<0.278]	< 0.137 [< 0.137]	< 0.174 [< 0.174]	<0.101 [<0.101]	<0.849 [<0.849] <2.00	- []	[]	
MW-5 MW-5	1/6/2023	56.53	_	8.77	47.76	-	42.7 B J	<200	-	<250	-	<1.00 <1.00	<1.00 <1.00	<1.00 <1.00	<3.00 <3.00	<1.00 <1.00	<2.00		-	
MW-5 MW-5	3/22/2023 6/21/2023	56.53 56.53	-	8.49 9.33	48.04 47.20	-	<100 156 B	<200 125 J	-	<250 89.8 J	-	<1.00 <1.00	<1.00 <1.00	<1.00 <1.00	<3.00 <3.00	<1.00 <1.00	<2.00 <2.00	-	-	· <u> </u>
MW-5	9/11/2023	56.53	-	10.70	45.83	-	424	360	_	<83.3	_	< 0.0941	0.292 J	< 0.137	0.457 J	< 0.101	< 0.849	-		
MW-5 MW-5	12/13/2023 2/20/2024	56.53 56.53	-	8.26 8.94	48.27 47.59	-	<31.6 59.7 B J J3	<66.7 73.7 J	-	<83.3 <83.3	-	<0.0941 <0.0941	<0.278 <0.278	<0.137 <0.137	<0.174 <0.174	<0.101	<0.849 <0.849	-		
MW-5	6/11/2024	56.53	-	9.20	47.33	-	<31.6	<66.7	-	<83.3	-	< 0.0941	<0.278	< 0.137	<0.174	<0.101	<0.849	-	-	·
MW-5	9/16/2024	56.53	-	9.32	47.21	-	44.7 B J	112 J	-	<83.3	-	<0.0941	<0.278	< 0.137	<0.174	<0.101	<0.849	-	-	
MW-6	1/29/1992	-	-		-		ND	ND		ND	-	39	3	2	8	-		-	-	1

Table 1 Historical Groundwater Gauging Data and Select Analytical Results Former Chevron Service Station 97502 640 Metcalf Street, Sedro-Woolley, Washington

										640 Me	etcalf Street, Sedro-Wo	olley, Washington								
Well	Date	TOC (ft NAVD 88)	DTP (ft)	DTW (ft)	GWE (ft NAVD 88)	NAPL Thickness (ft)	GRO (µg/L)	DRO (µg/L)	DRO w/ Silica Gel (µg/L)	HRO (μg/L)	HRO w/ Silica Gel (μg/L)	Benzene (µg/L)	Toluene (μg/L)	Ethylbenzene (μg/L)	Total Xylenes (μg/L)	MTBE (μg/L)	Dissolved Lead (µg/L)	Total Lead (μg/L)	EDB (µg/L)	Comments
MW-6	9/25/1992		TCA Method	A CULs			800/1,000 ND	500 ND	500	500 ND	500	5 5.5	1000 ND	700 ND	1000 ND	20	15	15	0.01	
MW-6	2/24/1993	57.07	-	9.33	47.74	-	ND	360	-	ND	-	8.6	ND	ND	1	-	-	-	-	
MW-6 MW-6	5/17/1993 8/2/1993	57.07 57.07	-	9.03 9.99	48.04 47.08	-	ND	930 290		ND ND	-	19	ND	ND	1	-		-	-	
MW-6	8/24/1993	57.07	-			-	ND		-	-	-	5	ND	ND	ND	-	-	-	-	
MW-6	11/3/1993 2/15/1994	57.07 57.07	-	10.35 10.14	46.72 46.93		ND ND	ND ND	-	ND ND	-	ND ND	ND ND	ND ND	ND ND	-	-	-	-	
MW-6	5/20/1994	57.07	-	9.79	47.28	-	ND	270	-	ND	-	7.7	ND	ND	ND	-	-	-	-	
MW-6	8/23/1994 11/16/1994	57.07 57.07	-	10.49 10.47	46.58 46.60	-	ND ND	ND 440	-	ND ND	-	ND ND	ND ND	ND ND	ND ND	-		-	-	
MW-6	2/10/1995	57.07	-	9.84	47.23	-	ND	240	-	240	_	ND	ND	ND	ND	-	-	ND	-	
MW-6 MW-6	5/12/1995 8/11/1995	57.07 57.07	-	9.64 10.13	47.43 46.94	-	ND ND	270 ND	-	ND ND	-	ND ND	ND ND	ND ND	ND ND	-	-	ND ND	-	
MW-6	11/2/1995	57.07	-	10.27	46.80	-	ND	390	-	ND	-	ND	ND	ND	ND	-	-	ND	-	
MW-6 MW-6	1/31/1996 5/9/1996	57.07 57.07	-	8.48 8.78	48.59 48.29	-	59 ND	270 494	-	ND ND	-	ND 0.587	ND ND	ND ND	ND ND	_	-	-	-	
MW-6	2/3/1997	57.07	-	7.75	49.32		ND	280	-	1,100	-	ND	ND	ND	ND	-	-	-	-	
MW-6	8/5/1997 2/11/1998	57.07 57.07	-	9.00 9.48	48.07 47.59	-	54.6 ND	ND 269		ND ND	-	ND 0.917	ND ND	ND ND	ND ND	-		-	-	
MW-6	8/27/1998	57.07	-	9.81	47.26	-	ND	ND	-	ND	-	ND	ND	ND	ND	ND	-	ND	-	
MW-6 MW-6	1/19/1999 8/30/1999	57.07 57.07		8.28 9.40	48.79 47.67		ND ND	287 ND		ND ND	-	0.835 ND	ND ND	ND ND	ND ND	-		-	-	
MW-6	3/13/2000	57.07	-	8.53	48.54	-	ND ND	317	-	ND	-	ND ND	ND ND	ND ND	ND ND	-	-	-	-	
MW-6 MW-6	9/19/2000 3/20/2001	57.07 57.07	-	9.52 9.17	47.55 47.90	-	-	-	-		-		-	-		-	-	-	-	
MW-6	8/21/2001	57.07	-	9.78	47.29	-	-	-			-	-	_	-	-	_		-	-	
MW-6	3/11/2002	57.07	-	8.09	48.98	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-6 MW-6	7/3/2002 9/13/2002	57.07 57.07	-	8.36 9.49	48.71 47.58	-	-	-		-		-	_	-	_	_		-	-	
MW-6	12/16/2002	57.07	-	10.02	47.05	-	-	-	-	-	-	-	-		-	-		-	-	
MW-6 MW-6	3/6/2003 6/4/2003	57.07 57.07	-	9.23 8.78	47.84 48.29	-	-			-	-		-		-	-		-		
MW-6	9/11/2003	57.07	-	10.33	46.74	-	-	-	-	-	-	-	-	-	-	-		-	_	
MW-6 MW-6	12/17/2003 3/17/2004	57.07 57.07	-	8.40 7.51	48.67 49.56	-	-	-	-		-		-	-	-	-		-	-	
MW-6	6/11/2004	57.07	-	7.59	49.48		-			-	_		_		-	-		-	-	
MW-6 MW-6	9/21/2004 12/21/2004	57.07 57.07	-	7.43 7.22	49.64 49.85	-				-	-		-		-	-		-	-	
MW-6	7/2/2005	57.07	-	8.30	48.77	-	<48	-	<80	-	<100	<0.5	<0.5	<0.5	<0.5	<0.5	-	15.6	<0.5*	
MW-6 MW-6	9/15/2005	57.07 57.07	-	9.22 8.75	47.85 48.32		<48 <48		<82 <81	-	<100 <100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.87	28.9	-	
MW-6	3/11/2006	57.07	-	8.22	48.85	-	<48	-	<81	-	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.87	< 0.87	-	
MW-6 MW-6	6/13/2006	57.07 57.07	-	7.98 8.82	49.09 48.25	-	<48		<80	-	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.51	< 0.51	-	
MW-6	8/10/2006 12/5/2006	57.07	-	8.53	48.54	-	<50	49 J		110 J	-	<1.0	<1.0	<1.0	<3.0	<1.0	0.050 BJ	45 B	-	
MW-6	1/24/2007	57.07	-	7.88	49.19		-	-		-	-	-	-	-	-	-		-	-	
MW-6 MW-6	5/8/2007 6/4/2007	57.07 57.07	-	8.04 8.78	49.03 48.29	-	<50	<130	-		-	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	18	-	
MW-6	9/5/2007	57.07	12.57	9.85	47.22		-	-		-	-		-	-	-	-		-	-	
MW-6 MW-6	12/19/2007 3/6/2008	57.07 57.07	-	9.21 8.34	47.86 48.73	-	-	-	-	-	-		-	-	-	-		-	-	
MW-6	6/16/2008	57.07	-	7.72	49.35	-	-	-		-	-		-		-	-		-	-	
MW-6 MW-6	9/11/2008	57.07 57.07	-	7.98 7.90	49.09 49.17	-	-	-	-	-	-		-	-	-	-	-	-	-	
MW-6	3/4/2009	57.07	-	7.68	49.39		-		-	-	-	-	-		-	-	-	-	-	
MW-6 MW-6	6/4/2009 12/3/2009	57.07 57.07	-	8.06 8.29	49.01 48.78	-				-	-		-		-	-		-	-	
MW-6	3/30/2010	57.07	-	8.26	48.81		-		-	-	-	-	-		-	-	-	-	-	
MW-6 MW-6	6/18/2010 9/2/2010	57.07 57.07	-	8.23 9.30	48.84 47.77	-	-		-		-	-	-	-	-	-	-	-	-	
MW-6	12/7/2010	57.07	-	9.10	47.97		_	-	-	-	_	-	_	-	_	_	-	-	-	
MW-6	3/7/2011 6/9/2011	57.07 57.07	-	7.52 7.27	49.55 49.80	-		-		-	-		-		-	-		-	-	-
MW-6	9/16/2011	57.07	-	8.52	48.55	-		-	-			-	-	-	_	-	-	-	-	
MW-6 MW-6	12/13/2011	57.07 57.07	-	8.60 8.52	48.47 48.55	-	-	-	-	-	-	-	-		-	-		-	-	
MW-6	3/15/2012	57.07	-	8.50	48.57	-	-	-	-	-	_	-	_	-	_	_	-	-		
MW-6 MW-6	6/13/2012 9/10/2012	57.07 57.07	-	7.40 8.60	49.67 48.47	-	-	-	-	-	-	-	-	-	-	-		-	-	
MW-6	12/10/2012	57.07		7.61	49.46				-			-	-	-	-	-	-		-	
MW-6 MW-6	3/11/2013 6/12/2013	57.07 57.07	-	7.07 6.83	50.00 50.24	-	-	-	-	-	-	-	-	-	-	-		-	-	
MW-6	9/18/2013	57.07		8.44	48.63				-			-	-	-	-	-	-		-	
MW-6	12/11/2013	57.07 57.07	-	7.81	49.26 45.01	-	-		-	-	-	-	-	-	-	-		-	-	
MW-6 MW-6	3/12/2014 9/27/2014	57.07	-	12.06 8.48	45.01 48.59	-	-	-			-	-	-	-	-	_	-	-	-	
MW-6	8/18/2020	57.07		8.78	48.29		44.7 BJ	75.6 J	-	<83.3	-	<0.0941	<0.278	<0.137	<0.174	<1.00	-	<2.95		
MW-6 MW-6	9/27/2021	57.02 57.02	-	10.3 7.69	46.72 49.33	-	<100 <31.6	<200 71.7 J		<250 <83.3		<1.00 <0.0941	<1.00 <0.278	<1.00 <0.137	<3.00 0.210 J	<1.00	<2.99	<6.00	_	
MW-6	2/16/2022	57.02	-	7.77	49.25	-	<31.6	<66.7	-	<83.3	-	< 0.0941	< 0.278	< 0.137	< 0.174	< 0.101	< 0.849	-	-	
MW-6 MW-6	6/6/2022 9/28/2022	57.02 57.02	-	7.88 9.25	49.14 47.77	-	50.9 B J J3 <100	75.1 J 68.8 J		<83.3 151 J	-	<0.0941 <1.00	<0.278 <1.00	<0.137 <1.00	<0.174 <3.00	<0.101 <1.00	<0.849 <2.00	-		
MW-6	1/6/2023	57.02	-	8.57	48.45	-	34.7 B J	<200	-	<250	-	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	-	-	
MW-6 MW-6	3/22/2023 6/20/2023	57.02 57.02	-	8.5 9.25	48.52 47.77		<100 <100	<200 <200	-	<250 <250	-	<1.00 <1.00	<1.00 <1.00	<1.00 <1.00	<3.00 <3.00	<1.00 <1.00	<2.00 0.914 J	-	-	
MW-6	9/12/2023	57.02	-	9.95	47.07	-	<31.6	<66.7	-	<83.3		<0.0941	< 0.278	< 0.137	0.325 J	< 0.101	< 0.849	-	-	
MW-6 MW-6	12/13/2023 2/21/2024	57.02 57.02	-	9.18 8.69	47.84 48.33	-	31.6 J 57.6 B J J3	<66.7 101 J		<83.3 <83.3	-	<0.0941 <0.0941	<0.278 <0.278	<0.137 <0.137	<0.174 <0.174	<0.101	<0.849 <0.849	-	-	
MW-6	6/11/2024	57.02	-	9.39	47.63	-	62.7 B J	<66.7	-	<83.3	_	< 0.0941	< 0.278	< 0.137	< 0.174	< 0.101	< 0.849	-		
MW-6	9/16/2024	57.02	-	10.50	46.52	-	<31.6 [<31.6]	<66.7 [<66.7]	-[-]	<83.3 [<83.3]	[-]	<0.0941 [<0.0941]	<0.278 [<0.278]	<0.137 [<0.137]	<0.174 [<0.174]	<0.101[<0.101]	<0.849[<0.849]	-[-]	- []	<u>-</u>
MW-7	1/29/1992	-	-		_		30,000	ND		ND	_	3,400	870	2,900	4,500	-			-	
MW-7 MW-7	9/25/1992	58.98			40.11		2,770	ND	-	ND	-	863	81	509	168	-	-	-	-	·
MW-7 MW-7	2/24/1993 5/17/1993	58.98 58.98	9.84 9.75	9.99 9.90	49.11 49.20	0.15 0.15	-	-	-	-	_	-	_	-	-	-		-	-	
MW-7	8/2/1993	58.98	-	9.99	48.99	-	-	13,800	-	 ND	-	-	-	-	-	-		-	-	

Table 1
Historical Groundwater Gauging Data and Select Analytical Results
Former Chevron Service Station 97502
640 Metcalf Street, Sedro-Woolley, Washington

											tcalf Street, Sedro-Woo	,,g								
Well	Date	TOC (ft NAVD 88)	DTP (ft)	DTW (ft)	GWE (ft NAVD 88)	NAPL Thickness (ft)	GRO (µg/L)	DRO (µg/L)	DRO w/ Silica Gel (µg/L)	HRO (µg/L)	HRO w/ Silica Gel (μg/L)	Benzene (μg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (μg/L)	MTBE (µg/L)	Dissolved Lead (µg/L)	Total Lead (μg/L)	EDB (µg/L)	Comments
		MTG	CA Method A	CULs		(11)	800/1,000	500	500	500	500	5	1000	700	1000	20	15	15	0.01	
MW-7	8/24/1993	58.98	-		-		88,000			-	-	1,100	620	2,200	13,000	-	-	-		
MW-7 MW-7	11/3/1993 2/15/1994	58.98 58.98	-	11.01	47.97 48.13		100,000 31,000	59,000 1,340		ND ND	-	2,500 1,210	898 751	6,300 2,910	6,470 3,960	-	-	-	-	
MW-7	5/20/1994	58.98	-	10.83	48.64	-	47,000	4,950	-	ND ND	_	1,210	700	2,000	4,200	_	-	_	-	+
	8/23/1994	58.98	-	11.13	47.85		25,400	11,200		800	-	1,070	844	2,200	4,130	-		-	-	
	11/16/1994	58.98	-	11.70	47.28	-	56,000	52,700		3,150	-	380	917	2,500	8,100	-		-	-	
MW-7 MW-7	2/10/1995 5/12/1995	58.98 58.98	10.14	10.62	48.36 48.84	Sheen	93,000 37,000	69,000 19,000		ND 2.800	-	1,200	3,700 2,800	1,300	8,100 6,400	-	-	24 8.2	-	-
MW-7	5/12/1995 8/11/1995	58.98	10.14	10.14	48.84 48.19	Sheen	61,000	1,600	-	2,800 ND	_	1,300	2,800	1,100	6,400	-	-	5.8	-	-
MW-7	11/2/1995	58.98	11.12	11.12	47.86	Sheen	94,000	57,000		ND	-	360	1,300	1,000	5,500	-		5.5	-	
MW-7	1/31/1996	58.98	-	9.20	49.78		27,000	3,700		ND	-	250	1,100	650	3,800	-		-	-	
MW-7 MW-7	5/9/1996 2/3/1997	58.98 58.98	9.40	9.40 8.85	49.58 88.76	Sheen	163,000 10,600	11,600 961		ND ND	-	638 11.1	2,390 10.6	1,850 32.3	10,600 185	-	-	-	-	-
MW-7 MW-7	2/3/1997 8/5/1997	58.98	9.56	9.56	49.42	Sheen	10,600	961	-	ND	_	11.1	10.6	32.3	185	-	-	_	-	-
MW-7	2/11/1998	58.98	9.52	9.52	49.46	Sheen	-	-		-	-	-	-	-	-	-	-	-	-	
MW-7	8/27/1998	58.98	10.29	10.30	48.69	0.01	62,000	2,600		ND	-	1,600	7,440	1,340	9,210	-		24	-	
MW-7 MW-7	1/19/1999	58.98	10.07	9.44	49.54		9,190	1,480		ND	-	59.6	2,070	251	935	-		-		-
MW-7	8/30/1999 3/13/2000	58.98 58.98	9.30	10.07 9.30	48.91 49.68	Sheen Sheen	26,900 49,600	5,580 4,330	-	ND ND	_	100 795	1,040 4,500	413 1,080	2,640 7,190	-	-	_	-	-
MW-7	9/19/2000	58.98	10.14	10.28	48.81	0.14	49,000	4,550	-		-		-	1,080	7,130	-	-	-	-	+
MW-7	3/20/2001	58.98	9.84	9.98	49.04	0.05	-	-		1	-	-	-	-	-	-		-	-	
MW-7	8/21/2001	58.98	10.31	10.36	48.66	0.05	-	-		-	-		-		-	-		-		-
MW-7 MW-7	3/11/2002 7/3/2002	58.98	-	9.23 11.68	49.75		37,000	-	3,900	-	<750	640	2,500	550	3,700	<6.0	-	-	-	-
MW-7	7/26/2002	-	-	10.81	_	-	57,000	-	3,700	-	~730		2,300	330	- 3,700	-0.0	-	_	-	†
MW-7	8/17/2002		-	10.93	-	-	-			-	-	-			-	-	-	_	-	
MW-7	9/13/2002		12.33	12.36	-	0.03	-	-		-	-	-		-	-	-		-	-	
MW-7 MW-7	10/15/2002 11/8/2002		-	11.97 12.41	-		-	-		-		-			-	-	-	-	-	-
MW-7	12/16/2002	-	12.75	12.77	-	0.02	-	-	-	-		-		-	-	-		-	-	
MW-7	1/11/2003		10.77	10.81	-	0.04	-			-	-	-			-	-	-	_	-	
MW-7	2/14/2003		12.12	12.15	-	0.03		-		-	-	-			-	-	-	-	-	
MW-7 MW-7	3/6/2003 4/22/2003		11.92 12.01	11.94 12.04	-	0.02	-	-		-		-			-	-	-	-	-	-
MW-7	5/21/2003	-	12.01	12.04	-	0.03	-	-	-	-		-		-	-	-		-	-	
MW-7	6/4/2003			11.84	-		96,000		6,300	-	600	580	4,100	1,500	10,000	<20*		-	-	
MW-7	7/17/2003		12.87	12.90	-	0.03	-			-	-	-	-		-	-		-		ļ
MW-7 MW-7	8/12/2003 9/11/2003		12.04	12.06	-	0.02	-		**	-	-	-	-		-	-		-		
MW-7	10/20/2003		12.78	12.82	-	0.04	-	-	-	_	-	-	-	-	-	-	-	-	-	+
MW-7	12/17/2003		-	11.32	-	-	53,000	-	15,000	-	<2,400	80	820	530	4,700	11	-	-	-	
MW-7	3/17/2004		10.88	10.90	-	0.02	-			-	-	-	-		-	-		-	-	
MW-7 MW-7	5/22/2004 6/11/2004		-	11.39 10.98	-		1,600		8,800	-	2,200	<1.0	1.3	8.2	57	<2.5		-	-	<u> </u>
MW-7	7/22/2004		11.42	11.44	-	0.02		-		_		~1.0	-	0.2	-		-	-	-	+
MW-7	9/1/2004		11.02	11.04	-	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-7	9/21/2004		-	10.79	-		10,000		19,000	-	2,300	<5.0	28	66	500	<5.0		-		ļ
MW-7 MW-7	12/21/2004 7/2/2005	58.98	-	10.31 11.01	47.97		25,000 520		5,700 23,000	-	1,000 3,000	<5.0 <0.5	180 <0.5	270 <0.5	2,100 <0.5	<5.0 <0.5		786	<0.5*	<u> </u>
MW-7	9/15/2005	58.98	-	11.84	47.14	-	7,400	-	2,900	_	800	43	1,200	130	740	<1	-	203	~0.5	+
MW-7	12/31/2005	58.98	-	11.61	47.37	-	20,000	-	3,600	-	<490	45	1,900	470	2,600	<3	12.8	34.8	-	
MW-7 MW-7	3/11/2006 6/13/2006	58.98 58.98	-	10.99 10.81	47.99 48.17	-	2,900 160,000		730 14,000	-	550 <2.000	<0.5 8	10 1,100	16 640	140 4,800	<0.5	2.4 15.5	32.4 159	-	
	8/10/2006	58.98 58.98	11.77	11.80	48.17 47.20	0.03	160,000	-	14,000		<2,000	8	1,100	640	4,800	- 3	15.5	159	-	-
MW-7	12/5/2006	58.98		11.57	47.41		45,000	210,000	_	4,300	_	3.1	1,300	950	7,100	<1.0	92 B	920 B	-	
MW-7	1/24/2007	58.98	10.50	10.62	48.46	0.12	-	-		1	-	-	-	-	-	-		-	-	
MW-7 MW-7	5/8/2007 6/4/2007	58.98	10.81	10.88	48.16 47.42	0.07	9,200	2,200		<190	-	14	360	67	520	<0.5		26.2	<0.5*	<b>_</b>
MW-7	9/5/2007	58.98 58.98	12.57	12.69	47.42	0.12	9,200	2,200	-	<190	_	14	360	6/	520	<0.5	-	26.2	<0.5*	+
MW-7	12/19/2007	58.98	_	12.22	46.76	-	15,000	_	21,000	-	<2,500	<1	210	250	1,500	<1	-	52.5	<1*	In analyzing DRO w/ silica gel, the observed sample pattern includes #2 fuel/diesel and an additional pattern that
							<u> </u>	<u> </u>					<u> </u>			<u> </u>	<u> </u>			elutes earlier in the DRO range.
MW-7	3/6/2008	58.98	11.00	11.03	47.97	0.03	-	-	-	-	-	-		-	-		-		-	1
MW-7 MW-7	6/16/2008 9/11/2008	58.98 58.98	10.22	10.25	48.75 48.53	0.03	-	-		-		-			-	-	-	-	-	<del>                                     </del>
		30.70	.0.45	10.47	40.55	0.02	_		_	-		-		-	_	_	_		_	In analyzing DRO w/ silica gel, the
MW-7	11/20/2008	58.98	10.46	10.47	48.52	0.01	56,000	-	54,000	-	<8,600	<13*	71	590	4,300	<13	-	-	<13*	observed sample pattern is not typical of #2 fuel/diesel, eluting in the DRO range earlier than #2 fuel.
MW-7	3/4/2009	58.98	-	9.67	49.31	-	2,400	-	13,000	-	<680	<0.5	<0.5	4	65	<0.5	-	-	<0.5*	In analyzing DRO w/ silica gel, the observed sample pattern includes #2 fuel/diesel and an additional pattern that elutes earlier in the DRO range.
MW-7	6/4/2009	58.98	-	10.04	48.94		2,800	-	140	-	<68	<0.5	<0.5	0.9	18	< 0.5		-	<0.5*	
MW-7	9/22/2009 9/23/2009	58.98 58.98	-	12.08 13.02	46.90 45.96	Sheen					-	-		-	-	-	-	-	-	
MW-7 MW-7	9/23/2009	58.98 58.98	-	13.02	45.96 46.29	-	370,000 160,000	530,000 48,000	-	110,000 J 27,000 J		-			-	-	-	-	-	-
MW-7	10/1/2009	58.98	-	12.63	46.35	-	22,000	4,800	-	27,000	-	-		_	-	-		-	-	†
MW-7	10/8/2009	58.98	-	12.81	46.17		16,000	590		440 J	-	-	-		-	-		-	-	
MW-7	10/15/2009	58.98 58.98	-	12.95 12.86	46.03 46.12	-	14,000	790 430		430 95 J	-	-	- 1	-	-	-	-	-	-	
MW-7 MW-7	10/22/2009	58.98 58.98	-	12.86	46.12 46.86	-	11,000 24,000	430 1,400	-	95 J 1,600 J	-	-			-	-	-	-	-	<del>                                     </del>
MW-7	12/3/2009	58.98	-	11.27	47.71	-	37,000		18,000	-	<1,700	<10*	560	770	4,800	<10	-	-	<10*	In analyzing DRO w/ silica gel, the observed sample pattern includes #2 fuel/diesel and an additional pattern that
MW-7	12/16/2009	58.98					22,000	2,000		970 J						1	1		-	elutes earlier in the DRO range.
MW-/	12/10/2009	38.98	-			-	22,000	2,000	-	9/0 J			-		-	-	-	<del>                                     </del>	-	In analyzing DRO w/ silica gel, the
MW-7	1/27/2010	58.98	-	11.24	47.74	-	33,000	-	9,700	-	1,700	-	-		-	-	-	-	-	observed sample pattern includes #2 fuel/diesel and an additional pattern that elutes earlier in the DRO range.
MW-7	2/12/2010	58.98	-	11.30	47.68	-	36,000		5,200	-	410	-	-	-	-	-	-	-	-	In analyzing DRO w/ silica gel, the observed sample pattern is not typical of #2 fuel/diesel, eluting in the DRO range earlier than #2 fuel.

Table 1
Historical Groundwater Gauging Data and Select Analytical Results
Former Chevron Service Station 97502
640 Metcalf Street, Sedro-Woolley, Washington

											etcalf Street, Sedro-Wo									
Well	Date	TOC (ft NAVD 88)	DTP (ft)	DTW (ft)	GWE (ft NAVD 88)	NAPL Thickness (ft)	GRO (μg/L)	DRO (µg/L)	DRO w/ Silica Gel (µg/L)	HRO (μg/L)	HRO w/ Silica Gel (µg/L)	Benzene (µg/L)	Toluene (μg/L)	Ethylbenzene (µg/L)	Total Xylenes (μg/L)	MTBE (μg/L)	Dissolved Lead (µg/L)	Total Lead (μg/L)	EDB (µg/L)	Comments
		M	TCA Method	A CULs		1 7	800/1,000	500	500	500	500	5	1000	700	1000	20	15	15	0.01	
MW-7	3/30/2010	58.98	-	10.85	48.13		32,000	-	8,400	-	<1,400	**	-		-	-	-	-	-	In analyzing DRO w/ silica gel, the observed sample pattern includes #2 fuel/diesel and an additional pattern that elutes earlier in the DRO range.
MW-7	6/18/2010	58.98	-	10.71	48.27		2,500	-	1,100	-	350	<0.5	2	2	30	-		-	-	In analyzing DRO w/ silica gel, the observed sample pattern includes #2 fuel/diesel and an additional pattern that clutes later in the DRO range.
MW-7	9/2/2010	58.98		12.21	46.77		22,000	3,500		370	-	2	480	720	4,200	-		-	-	
MW-7 MW-7	12/7/2010 3/7/2011	58.98 58.98	-	12.85 9.71	46.13 49.27	-	30,000 <50	460	2,000	-	<72 1,100	<3 <0.5	380 <0.5	800 <0.5	4,500 <0.5	-	-	-	-	
MW-7	6/9/2011	58.98	-	9.28	49.70		<50		780	-	360	< 0.5	< 0.5	< 0.5	< 0.5	-		-	-	
MW-7 MW-7	9/16/2011 12/13/2011	58.98 58.98		10.90 11.40	48.08 47.58		<50	-	330 33		<69 <67	<0.5 0.9	<0.5 91	<0.5 82	<0.5 440	-		-		
MW-7	12/19/2011	58.98	-	11.33	47.65	-	2,100	-		-						-	-	-	-	
MW-7	3/15/2012	58.98		9.80	49.18		<50		120		<69	<0.5	< 0.5	<0.5	<0.5	-		-	-	
MW-7	6/13/2012	58.98	-	9.60	49.38		230	-	86	-	<72	<0.5	< 0.5	0.8	<0.5	-	**	-	-	In analyzing HO w/ silica gel, the observed
MW-7	9/10/2012	58.98	-	11.20	47.78		240	-	860	-	<700	<0.5	4	5	29	-		-	-	sample pattern includes #2 fuel/diesel, eluting in the DRO range later than #2 fuel.
MW-7	12/10/2012 3/11/2013	58.98 58.98	-	10.21 9.41	48.77 49.57	-	<50 <50	-	300 330	-	140 200	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	-	-	-	-	
MW-7	6/12/2013	58.98	-	9.85	49.13	-	<50	82		<68	-	< 0.5	< 0.5	<0.5	< 0.5	-	-	-	-	
MW-7	9/18/2013	58.98	-	11.16	47.82	-	1,300	190	-	<67	-	0.8	150	41	210	-		-	-	
MW-7	12/11/2013 3/12/2014	58.98 58.98	-	10.67 9.18	48.31 49.80		<50 <50	360		190	-	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	-		-	-	
MW-7	9/27/2014	58.98		11.23	47.75	-	<50			-	-	< 0.5	< 0.5	<0.5	< 0.5	-	-	-	-	
MW-7 MW-7	8/17/2020	58.98	-	11.45	47.53	-	2,080	549	-	143 J	-	0.561 J	23.7	101 359 E	488	<1.00	-	<2.95	-	
MW-7	9/28/2021 12/15/2021	58.93 58.93	-	12.73 10.07	46.20 48.86	-	8,990 <31.6	565 95.7 J	-	<250 185 J	-	0.124 J <0.0941	14.6 <0.278	< 0.137	1,390 E 0.321 J	< 0.101	<2.99	<6.00	-	
MW-7	2/16/2022	58.93	-	9.31	49.62	-	<31.6	<66.7		155 J	-	< 0.0941	< 0.278	< 0.137	0.241 J	< 0.101	1.14 J		-	
MW-7 MW-7	6/7/2022 9/28/2022	58.93 58.93	-	9.40 11.95	49.53 46.98	-	50.7 B J 5,530	<66.7 530	-	<83.3 <250	-	<0.0941 0.390 J	<0.278 27.1	<0.137 216 E	<0.174 1,190 Q	<0.101	<0.849 <2.00	-	-	
MW-7	1/5/2023	58.93 58.93	-	11.95	46.98		5,530 18,300	918		<250	-	0.390 J <10.0*	45.0	216 E 612	1,190 Q 3,270	<1.00	<2.00	-	-	
MW-7	3/23/2023	58.93		11.22	47.71		10,300	540		<250	-	<25.0*	27.1	415	2,490	<25.0°	0.863 J	-	-	
MW-7 MW-7	6/20/2023 9/11/2023	58.93 58.93	-	10.97	47.96 45.77		18,300 6,230	674 782		<250 <83.3	-	<25.0* <2.35	21.1 J <6.95	338 J3 179	2,100 999	<25.0° <2.53	2.12 2.13 B	-	-	
MW-7	12/14/2023	58.93	-	11.24	47.69	-	5,190	519	-	<83.3	-	<2.35	<6.95	125	667	<2.53	1.72 J	-	-	
MW-7	2/20/2024	58.93	-	11.73	47.20		7,730 J3	1,290		92.8 J	-	<2.35	24.4 J	454	2,530	<2.53	3.06	-	-	
MW-7 MW-7	6/11/2024 9/17/2024	58.93 58.93	-	11.06 11.95	47.87 46.98		167 B 8,190	68.1 J 1,120	-	<83.3 <83.3	-	<0.0941 <0.0941	<0.278 26.6	<0.137 589	2.47 J 3,590	<0.101 <0.101	<0.849 3.48	-	-	H
MW-/	9/17/2024	30.73	-	11.93	40.70		8,190	1,120			-	~0.0941	20.0	309	3,590	~0.101	3.46	-	-	
MW-8	1/29/1992	-	-		-		37,000	2,000		ND	-	4,600	320	8,900	1,600	-		-	-	
MW-8	9/25/1992 2/24/1993	56.56 56.56	-	9.90	46.66		24,000 [25,000] 28,000	5,350 590		ND ND	-	6,100 [6,400] 520	378/376 200	8,000 [8,200] 8,300	1,600 [1,700] 950	-		-	-	<b> </b>
MW-8	5/17/1993	56.56	-	9.63	46.93	-	34,000	540	-	ND	-	2,000	180	11,000	770	-	-	-	-	
MW-8 MW-8	8/2/1993	56.56 56.56		10.19	46.37		68,000	970		ND	-	1,050	220	16,000	1,660	-			-	
MW-8	8/24/1993 11/3/1993	56.56 56.56	-	11.28	45.28	-	68,000 2,100	1,340	-	ND	-	1,050	220 ND	16,000 ND	200	-	-	-	-	
MW-8	2/15/1994	56.56	-	11.15	45.41		2,860	1,630		ND	-	942	140	377	286	-		-	-	
MW-8 MW-8	5/20/1994 8/23/1994	56.56 56.56	-	10.56 11.41	46.00 45.15	-	14,000 7,990	910 1,830	-	ND ND	-	740 2,060	130 298	3,600 1,160	410 1,160	-	-	-	-	
MW-8	11/16/1994	56.56	-	11.41	44.86	-	17,600	2,160	-	ND ND	-	1,130	298	2,700	892	_	-	_	-	
MW-8	2/10/1995	56.56	-	10.87	45.69		10,000	1,600	-	500	-	1,100	1,300	180	820	-	-	17	-	
MW-8	5/12/1995 8/11/1995	56.56 56.56	-	10.37	46.19 45.58		19,000 9,000	870 990	-	ND ND	-	1,200 470	5,700 860	240 320	1,000 1,300	-	-	ND ND	-	
MW-8	11/2/1995	56.56	-	11.35	45.21	-	11,000	1,700	-	1,100	-	820	710	300	1,200	-	-	ND	-	
MW-8 MW-8	1/31/1996	56.56 56.56	-	9.03 9.37	47.53 47.19		15,000	510		ND ND	-	370	4,600	170 198	710 807	-		-	-	
MW-8	5/9/1996 2/3/1997	56.56 56.56	-	9.37 8.27	47.19 48.29	-	17,000 11,600	300 360	-	ND ND	-	421 258	6,200 3,750	198 225	807 910	-	-	-	-	
MW-8	8/5/1997	56.56	-	9.46	47.10		9,160	ND		ND	-	ND	1,810	167	615	-		-	-	
MW-8 MW-8	2/11/1998	56.56	-	9.97	46.59	-	6,310	ND ND	-	ND ND	-	476	680 425	158	585	 ND		-	-	
MW-8	8/27/1998 1/19/1999	56.56 56.56	-	10.50 9.12	46.06 47.44	-	2,810 ND	ND 271	-	ND ND	-	ND ND	425 249	113 27.4	448 96.1	- ND	-	-	-	
MW-8	8/30/1999	56.56	-	10.01	46.55		1,180	623	-	ND	-	15.8	17.8	57.9	198	-	-	-	-	
MW-8 MW-8	3/13/2000 9/19/2000	56.56 56.56	-	9.19 10.21	47.37 46.35		1,990 1,540	318 268		ND ND	-	11.5 ND	168 ND	73.4 66.3	255 239	 ND		-	-	
MW-8	3/20/2001	56.56	_	10.10	46.46	-	ND	-		-		ND	ND	ND	117	ND			_	
MW-8	8/21/2001 3/11/2002	56.56 56.56	-	12.31 9.14	44.25 47.42	-	5,230 1,100	309	250	<500	 <750	33.8 6.4	6.81	58.9 73	196 250	27.3 <2.5	-	-	-	
MW-8	7/3/2002	56.56	-	9.60	46.96	-	1,100	-	<250	-	<750	<2.0	<5.0	69	230	<2.5	-	-	-	
MW-8	9/13/2002	56.56	-	9.99	46.57		920		309	-	<250	<20°	2.1	34	150	67		-	-	
MW-8 MW-8	12/16/2002 3/6/2003	56.56 56.56	-	11.00	45.56		1,300	-	520	-	<250	<50*	4.8	30	69	<20*	-	-	-	Well inaccessible
MW-8	6/4/2003	56.56	-	9.85	46.71	-	680	-	300	-	<250	<50°	1.9	31	110	<50*	-	-	-	Well Halcession
MW-8	9/11/2003	56.56		11.08	45.48		2,400	-	650		<250	31	14	110	170	<5.0	-	-	-	W. W.
MW-8 MW-8	3/6/2003 3/17/2004	56.56 56.56	-		-		-	-	-	-	-		-	-	-	-	-	-	-	Well inaccessible Well inaccessible
MW-8	6/11/2004	56.56	-		-	-	-			-	-	-	-	-	-	-	-		-	Well inaccessible
MW-8	9/21/2004 12/21/2004	56.56 56.56	-	-	-	-	-		-	-	-	=	-	-	-	-	-	-	-	Well inaccessible Well inaccessible
MW-8	8/10/2006	56.56	-	9.30	47.26	-	580	210	-	<110	_	1	<0.5	14	29	<0.5	<0.047	8.5	-	wen maccessible
MW-8	12/5/2006	56.56	-	9.26	47.30		850	230 J	-	170 J	-	0.64 J	0.49 J	24	62.9	<1.0	0.51 BJ	15 B	-	
MW-8 MW-8	1/24/2007 5/8/2007	56.56 56.56	-	8.41 8.65	48.15 47.91		690 1,200	180 410		<270	-	<1.0 <2.0	<1.0 28	30 37	98.1 155	<1.0 <2.0	<2.0 <2.0	19 13	-	
MW-8	6/4/2007	56.56	-	9.03	47.53	-	1,200	410	-	-	-	~2.0	- 28	3/	133	~2.0	~2.0	- 13	-	
MW-8	9/5/2007	56.56	-	9.70	46.86	-	-		-	-	-	-	-	-	-	-		-	-	
MW-8	12/19/2007	56.56	-	9.88	46.68	-	570	-	1,200	-	860	<0.5	0.7	3	4	<0.5	-	8	<0.5*	In analyzing DRO w/ silica gel, the observed sample pattern includes #2 fuel/diesel and an additional pattern that elutes later in the DRO range.
MW-8	3/6/2008	56.56	-	8.48	48.08	-	260			-	-	<0.5	<0.5	8	17	-	-		-	
MW-8	6/16/2008 9/11/2008	56.56 56.56	-	7.72 8.10	48.84 48.46		190 510			-	-	<1	<1	3 16	4	-		-	-	
MW-8 MW-8	9/11/2008	56.56 56.56	-	8.10 8.22	48.46 48.34		510 280	-	-	-	-	<1 <0.5	<1 <0.5	16 3	25	-	-	-	-	
MW-8	3/4/2009	56.56	-	7.39	49.17	-	180	-	-	-	-	<0.5	<0.5	4	8	-	-	-	-	

Table 1
Historical Groundwater Gauging Data and Select Analytical Results
Former Chevron Service Station 97502
640 Metcalf Street, Sedro-Woolley, Washington

											etcalf Street, Sedro-Wo	g								
Well	Date	TOC (ft NAVD 88)	DTP (ft)	DTW (ft)	GWE (ft NAVD 88)	NAPL Thickness (ft)	GRO (µg/L)	DRO (μg/L)	DRO w/ Silica Gel (µg/L)	HRO (μg/L)	HRO w/ Silica Gel (µg/L)	Benzene (µg/L)	Toluene (μg/L)	Ethylbenzene (μg/L)	Total Xylenes (μg/L)	MTBE (μg/L)	Dissolved Lead (µg/L)	Total Lead (μg/L)	EDB (µg/L)	Comments
	C1418000		TCA Method		10.00		800/1,000	500	500	500	500	5	1000	700	1000 47	20	15	15	0.01	
MW-8 MW-8	6/4/2009 9/22/2009	56.56 56.56	-	7.68 9.69	48.88 46.87		730 550	880	-	1,300	-	- 3	- 3	20	4/	-		-	-	
MW-8	10/1/2009	56.56	-	10.28	46.28		380	76 J		94 J	-		-		-	-	-	-	-	
MW-8 MW-8	10/8/2009	56.56 56.56	-	10.51 10.65	46.05 45.91		620 420	89 J 340	-	<69 310 J	-		-		-	-	-	-	-	
MW-8	10/22/2009	56.56	-	10.60	45.96	-	480	77 J	-	<67	-	-	-		-	-	-	-	-	
MW-8	11/18/2009	56.56	-	9.71	46.85		510	140		<70	-		-	-	-	-		-		
MW-8 MW-8	12/3/2009	56.56 56.56		8.87	47.69		580 420	240	-	<66	-	<1	<1	7	28	-	-	-	-	
MW-8	1/27/2010	56.56	-	8.90	47.66	-	790		190		<69	-	-		-	-		-	-	
MW-8 MW-8	2/12/2010	56.56	-	8.98	47.58		570 710	-	180 91	-	<70		-		-	-		-	-	
MW-8	3/30/2010 6/18/2010	56.56 56.56	-	8.45 8.32	48.11 48.24		1,000	-	390	-	<70 380	-	-	-	-	-	-	-	-	
MW-8	9/2/2010	56.56	-	9.87	46.69	-	390 J	290		330	-		-		-	-		-		
MW-8 MW-8	12/7/2010 3/7/2011	56.56 56.56	-	9.81 7.46	46.75 49.10	-	610 520	-	309 590	-	470		-		-	-	-	-	-	
MW-8 MW-8	6/9/2011	56.56	-	6.95	49.10		520 280	-	590 19,000	-	530 <3,500	-	-	-	-	-	-	-	-	
MW-8	9/16/2011	56.56		8.48	48.08	**	500	-	76	-	170	-	-	-	-	-	-	-		
MW-8	12/13/2011	56.56	-	9.10	47.46		460	-	66	-	130		-		-	-		-	-	
MW-8 MW-8	12/19/2011 3/15/2012	56.56 56.56	-	9.02 9.70	47.54 46.86	-	<50	-	<29	-	<68	-	-		-	-		-	-	
																				In analyzing HO w/ silica gel, the observed
MW-8	6/13/2012	56.56	-	7.35	49.21	-	330	-	430	-	610		-		-	-	-	-	-	sample pattern includes #2 fuel/diesel, eluting in the DRO range later than #2 fuel.
MW-8	9/10/2012	56.56	-	8.80	47.76		220	-	<30	-	<69		-		-	-		-	-	
MW-8	12/10/2012	56.56	-	8.05	48.51	-	630	-	220	-	310		-		-	-	-	-	-	In analyzing HO w/ silica gel, the observed
MW-8	3/11/2013	56.56	-	7.24	49.32		510	-	580	-	830	-	-	-	-	-	-	-	-	sample pattern includes #2 fuel/diesel and an additional pattern that elutes later in the DRO range.
MW-8	6/12/2013	56.56	-	7.43	49.13		610	200		360	-		-		-	-		-	-	
MW-8 MW-8	9/18/2013 12/11/2013	56.56 56.56	-	8.82 8.36	47.74 48.20		380 500	48 100		96 190	-	-	-		-	-		-		
MW-8	3/12/2014	56.56	_	7.02	49.54	-		500		510	-		_	_	_	-	-	_	_	In analyzing HO, the observed sample pattern includes #2 fuel/diesel and additional patterns that elute earlier and
											<u> </u>								L	later in the DRO range.
MW-8	9/27/2014	56.56	-	8.86	47.70			16,000			-		-		-	-				
MW-8 MW-8	8/18/2020 9/28/2021	56.56 56.52		9.02 10.38	47.54 46.14		6,210 3,600	123 J 305	-	<83.3 <250	-	<0.0941 <1.00	<0.278 <1.00	1.64	1.16 J 0.574 J	<1.00	-	<2.95 <6.00		
MW-8	12/15/2021	56.52	-	7.83	48.69		7,270	228	-	119 J	-	< 0.0941	< 0.278	2.13	1.75 J	< 0.101	<2.99	-0.00	-	
MW-8	2/16/2022	56.52	-	7.48	49.04		3,300	126 J		<83.3	-	< 0.0941	<0.278	0.584 J	0.973 J	<0.101	< 0.849	-		
MW-8 MW-8	6/6/2022 9/27/2022	56.52 56.52	-	7.55 9.52	48.97 47.00	**	6,420 9,280	170 J 104 J		<83.3 159 J	-	<0.0941 <1.00	<0.278 <1.00	0.612 J 0.821 J	0.488 J 0.589 J	<0.101 <1.00	<0.849 <2.00	-	-	
MW-8	1/6/2023	56.52	-	8.91	47.61	-	7,440	122 J	-	<250	-	<1.00	0.303 J	1.73	1.57 J	<1.00	<2.00	-	-	
MW-8	3/22/2023	56.52	-	8.75	47.77		9,990	114 J	-	<250	-	<1.00	0.304 J	1.55	0.971 J	<1.00	<2.00	-		
MW-8 MW-8	6/21/2023 9/11/2023	56.52 56.52		9.58 10.81	46.94 45.71		5,860 2,220	172 J 527	-	<250 <83.3	-	<1.00 0.224 J	0.450 J 0.369 J	1.19 0.830 J	0.689 J 0.734 J	<1.00	1.02 J <0.849	-	-	
MW-8	12/13/2023	56.52	-	10.10	46.42	-	4,010	431	-	<83.3	-	< 0.0941	< 0.278	1.91	1.76 J	< 0.101	< 0.849	-	-	
MW-8	2/20/2024	56.52	-	9.24	47.28	-	4,000	418	-	87.8 J	-	3.41	0.757 J	1.57	3.33	< 0.101	< 0.849	-		
MW-8 MW-8	6/11/2024 9/16/2024	56.52 56.52	-	9.43 9.52	47.09 47.00		4,500 [6,880] 6,670	157 J [183 J] 207	-[-]	<83.3 [<83.3] <83.3	[-]	<0.0941 [<0.0941] <0.0941	<0.278 [<0.278] 0.297 J	2.13 [2.14] 1.17	2.28 J [2.27 J] 0.756 J	<0.101 [<0.101] <0.101	<0.849 [<0.849] <0.849	-[-]	-[]	
31W-8	9/10/2024	30.32		9.32	47.00		6,670	207				~0.0941	0.2973	1.17	0.7303	~0.101	~0.849	-		
MW-9	1/29/1992			-	-	**	ND	1,000	-	ND	-	1.0	1.0	ND	4.0	-	-	-		
MW-9 MW-9	9/25/1992 2/24/1993	57.79 57.79	-	10.07	47.72		370 439	1,970 2,340		ND ND	-	1.2	ND ND	1.0 ND	2.0	-		-	-	
MW-9	5/17/1993	57.79	-	9.75	48.04	-	330	2,340 770	-	ND ND	-	27 5.9	1.0	ND ND	2.0	-	-	-	-	
MW-9	8/2/1993	57.79	-	10.20	47.59		-	1,560		ND	-		-		_	-		-		
MW-9	8/24/1993	57.79	-				5,590				-	4.0	14	12	409	-		-	-	
MW-9 MW-9	11/3/1993 2/15/1994	57.79 57.79	-	11.43 11.27	46.36 46.52		1,070 853	990 750	-	ND ND	-	1.9 2.1	1.0 ND	ND ND	2.0 2.0	-	-	-	-	
MW-9	5/20/1994	57.79	-	10.75	47.04		740	1,610	-	ND	-	0.6	ND	ND	ND	-			-	
MW-9	8/23/1994	57.79	-	11.69	46.10	-	640	1,220	-	ND	-	0.7	ND	ND	ND	_	-	-		
MW-9 MW-9	11/16/1994 2/10/1995	57.79 57.79	-	10.88 10.94	46.91 46.85	-	ND 950	300 890	-	ND 400	-	ND ND	ND ND	ND 1.5	ND 6.0	_	-	ND		
MW-9	5/12/1995	57.79		10.49	47.30		910	740	_	ND	_	ND	ND	ND	ND	_	-	ND	-	
MW-9 MW-9	8/11/1995 11/2/1995	57.79 57.79	-	11.14	46.65 46.30	-	1,200 990	1,800 980	-	ND ND	-	0.63 0.68	ND ND	ND ND	1.2 ND		-	ND 3.5	-	
MW-9 MW-9	1/2/1995	57.79 57.79	-	11.49 8.98	46.30 48.81		99 <b>0</b> 740	980 710	-	ND ND	-	0.68 2.6	ND ND	ND ND	ND ND	-	-	5.5	-	
MW-9	5/9/1996	57.79	-	9.31	48.48	-	128	477		ND	-	ND	0.74	ND	ND	-		_	-	
MW-9	2/3/1997	57.79 57.79	-	7.70 9.85	50.09 47.94	-	190	355 447		ND ND	-	ND ND	ND ND	ND ND	ND ND	-		-	-	
MW-9 MW-9	8/5/1997 2/11/1998	57.79	-	9.85	47.94		236	44/	-	ND -	-	ND 	- ND	ND 	ND	-	-	-	-	
MW-9	8/27/1998	57.79	-	10.72	47.07	-				-	-	-	-	-	-	-		_	-	
MW-9 MW-9	1/19/1999 8/30/1999	57.79 57.79	-	8.87 10.18	48.92 47.61	-	-	-	-	-	-	-	-	-	-	-		-	-	
MW-9 MW-9	8/30/1999 3/13/2000	57.79	-	9.13	47.61 48.66		-	-	-	-	-	-	_	-	-	-	-	-	-	
MW-9	9/19/2000	57.79	-	10.41	47.38	-			-	-	-	-	-		-	-		-	-	
MW-9 MW-9	3/20/2001 8/21/2001	57.79 57.79	-	10.07 10.79	47.72 47.00	-	-	-		-	-		-	-	-	-		-	-	Well Decommissioned
MW-10	12/16/2002	-	-	10.41	-		1,800		<250	-	<250	<10*	3.5	31	98	9.3	<8.90	-	-	
MW-10 MW-10	3/6/2003 6/4/2003	-	-	9.74 9.28	-		99 <50	-	<250 <320	-	<250 <400	<1.0 2.4	<0.50 <0.5	<0.50 2.4	<1.5	<2.5 <2.5		-	-	
MW-10	9/11/2003	-	-	11.18	<del>-</del>	-	12,000	-	330	-	<250	71	380	430	1,500	<10	-	-	-	
MW-10	12/17/2003		-	9.15	-		<50/<50	-	<250/<250		<250/<250	<0.5/2.8	<0.5/1.4	<0.5/1.5	<1.5/1.8	<2.5/<2.5		-		
MW-10 MW-10	6/11/2004	-	-	8.95 8.90	-	-	<50 120	-	<800 <250	-	<1,000 <250	2.5	<0.5 0.8	<0.5	<1.5	<2.5	-	-	-	
MW-10	12/21/2004	-	-	8.61	<del>-</del>	-	780	-	<250	-	<250	27	19	13	25	<5.0	-	-	-	
MW-10	7/2/2005	56.21	-	8.98	47.23		1,100	-	470	-	<500	8	6	10	190	<0.5	-	1.3	<0.5*	
MW-10 MW-10	9/15/2005 12/31/2005	56.21 56.21	-	9.48	46.73	-	17,000	-	980	-	280	32	1,200	520	2,600	<1	-	<0.87	-	Well inaccessible
MW-10	3/11/2006	56.21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Well inaccessible
MW-10	6/13/2006	56.21	-	8.98	47.23		2,800	-	670	-	<210	4	68	92	360	<0.5	< 0.51	1.3		
MW-10	8/10/2006 12/5/2006	56.21 56.21	-	9.53 10.03	46.68 46.18	-	16,000	620	-	<100 530	-	6 15	330 380	390 700	1,600 3,800	<1 <10	0.4 0.57 BJ	1 2.6 B	-	
MW-10	12/3/2006	30.21	-	10.03	40.18		22,000	1,400	_	530	-	15	380	700	3,800	~10	U.5 / EU	2.0 D		

Table 1 Historical Groundwater Gauging Data and Select Analytical Results Former Chevron Service Station 97502 640 Metcalf Street, Sedro-Woolley, Washington

Well	Date	TOC (ft NAVD 88)	DTP (ft)	DTW (ft)	GWE (ft NAVD 88)	NAPL Thickness (ft)	GRO (μg/L)	DRO (µg/L)	DRO w/ Silica Gel (µg/L)	HRO (μg/L)	HRO w/ Silica Gel (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (μg/L)	MTBE (μg/L)	Dissolved Lead (µg/L)	Total Lead (μg/L)	EDB (µg/L)	Comments
			TCA Method			(11)	800/1,000	500	500	500	500	5	1000	700	1000	20	15	15	0.01	
MW-10 MW-10	1/24/2007 5/8/2007	56.21 56.21	-	9.30 9.41	46.91 46.80	-	12,000 13,000	1,300 610	-	<260	-	7.7 <10	48 370	310 350	1,450 1,790	<5.0 <10	<2.0 <2.0	<2.0 <2.0	-	
MW-10	6/4/2007	56.21	-	9.24	46.97		15,000		320	<100	-	6	160	370	1,900	<1		1.2	<1*	
MW-10	9/5/2007	56.21	-	10.50	45.71	-	13,000		480	-	<110	3	210	340	1,400	<1	-	0.88	<1*	
MW-10	12/19/2007	56.21	-	10.45	45.76		8,700	-	530	-	<200	14	44	250	850	<0.5	-	1.9	<0.5*	In analyzing DRO w/ silica gel, the observed sample pattern is not typical of #2 fuel/diesel.
MW-10 MW-10	3/6/2008 6/16/2008	56.21 56.21	-	9.08 8.62	47.13 47.59	-	2,100 1.500		140 410	-	<100 <100	7 0.6	29 44	61	210 190	< 0.5		-	<0.5* <0.5*	
MW-10 MW-10	9/11/2008	56.21	-	8.62	47.44	-	7,000	-	410 92	-	<99	2	140	170	1,000	<0.5		-	<0.5*	
MW-10	11/20/2008 3/4/2009	56.21 56.21	-	9.01 7.86	47.20 48.35		7,700		150 85	-	<69 <69	<3 0.9	83 38	190 95	1,300	<3 <0.5	-		<3*	
MW-10 MW-10	6/4/2009	56.21	-	7.86 8.10	48.33	-	3,600 5,000	-	<300	-	<700	2	38 73	95 170	390 440	<0.5		-	<0.5* <0.5*	
MW-10	9/22/2009	56.21	-	10.03	46.18	-	15,000	610		<81	-		-		-	-	-	-	-	
MW-10 MW-10	9/24/2009 10/1/2009	56.21 56.21	-	10.04 10.44	46.17 45.77	-	22,000 14,000	800 460		150 J <66	-	-	-	-	-	-	-	-	-	
MW-10	10/8/2009	56.21	-	10.64	45.57	-	13,000	330		<69	-		-		-	-	-	-	-	
MW-10 MW-10	10/15/2009 10/22/2009	56.21 56.21	-	10.80 10.82	45.41 45.39	-	17,000 12,000	560 420	-	<66 <68	-	-	-	-	-		-	-	-	
MW-10	11/18/2009	56.21	-	10.14	46.07	-	11,000	36 J	-	<72	-		_		_	_		-	-	
MW-10 MW-10	12/3/2009	56.21 56.21	-	9.28	46.93	-	5,600 2,800	140	350	<69	<67	2	33	200	480	<0.5	-	-	<0.5*	
MW-10	1/27/2010	56.21	-	8.81	47.40	-	2,000		210		<70	-	-	-	-		-	-	-	
MW-10 MW-10	2/12/2010 3/30/2010	56.21 56.21	-	8.83 8.80	47.38 47.41	-	1,800 130	-	120 44	-	<69 <69	-	_	-	-	-	-	-	-	
MW-10 MW-10	6/18/2010	56.21	-	8.55	47.66	-	120	-	63	-	<69 <69	<0.5	<0.5	4	2	-	-	-	-	
MW-10 MW-10	9/2/2010	56.21	-	10.01 10.07	46.20	-	3,900	380		120	200	2	7	140	260	-	-	-	-	
MW-10	12/7/2010 3/7/2011	56.21 56.21	-	7.79	46.14 48.42	-	7,600 700	-	230 170	-	290 340	3 2	70	240 23	700 22	-	-	-	-	
MW-10	6/9/2011	56.21	-	7.30	48.91	-	3,600	-	6,200	-	<340	3	40	130	370	-	-	-	-	
MW-10 MW-10	9/16/2011	56.21 56.21	-	8.60 9.08	47.61 47.13	-	5,100 560		100 <60	-	<68 <140	0.6	13	190 11	370 10		-	-	-	
MW-10	12/19/2011	56.21	-	9.00	47.21	-		-		-	-		-		-	-	-	-	-	
MW-10 MW-10	3/15/2012 6/13/2012	56.21 56.21	-	7.80 7.45	48.41 48.76		77 620	-	<30 35	-	<69 <72	<0.5	< 0.5	1 38	<0.5			-	-	
MW-10	9/10/2012	56.21	-	8.75	47.46	-	4,200	-	220	-	<68	1	35	87	220	_		-	-	
MW-10 MW-10	12/10/2012 3/11/2013	56.21 56.21	-	8.12 7.54	48.09 48.67		1,700 1,200		56 37	-	<69 <66	0.6	19	31 18	210 48	-		-	-	
MW-10	6/12/2013	56.21	-	7.55	48.66	-	1,800	59		<67		0.9	13	47	150	-	-	-	-	
MW-10 MW-10	9/18/2013 12/11/2013	56.21 56.21	-	8.93 8.56	47.28 47.65		4,000 3,100	200 76	-	<67 <69	-	0.8	17 10	29 54	330 140	-	-	-	-	
MW-10	3/12/2014	56.21	-	12.79	43.42	-	1,700	76		<69	-	1 <0.5	6	28	83			-	-	
MW-10	9/27/2014	56.21	-	8.97	47.24 46.76	-	2,300	222		 <83.3	-	<0.5 0.152 J	< 0.5	0.7 28.5	0.6 19.1	-	-	<2.95	-	
MW-10	8/17/2020	56.21		9.45				222										<2.95		
MW-10	9/29/2021	56.17	-	10.33	45.84		4,150 [4150]	986 [1,000]		<250 [<250]	-	0.230 J [0.230 J]	9.90 [9.78]		87 [85.6]	<1.00		<6.00 [<6.00]		
MW-10 MW-10	9/29/2021 12/15/2021	56.17 56.17	-	10.33 8.02	45.84 48.15		4,150 [4150] 362	986 [1,000] 171 J		<250 [<250] <83.3	-	0.230 J [0.230 J] <0.0941	9.90 [9.78] 1.54	19.7 [19.4]	87 [85.6] 1.89 J	<1.00 <0.101	<2.99	<6.00 [<6.00]	-	Slight odor, no visible sheen
MW-10 MW-10 MW-10 MW-10	9/29/2021 12/15/2021 2/15/2022 6/7/2022	56.17 56.17 56.17 56.17	-	10.33 8.02 7.44 7.60	45.84		4,150 [4150] 362 665 B 57.8 J	986 [1,000] 171 J 241 <66.7	**	<250 [<250]	-	0.230 J [0.230 J]	9.90 [9.78]		87 [85.6]	<1.00 <0.101 <0.101 <0.101	<2.99 <0.849 <0.849	<6.00 [<6.00]  	-	Slight odor, no visible sheen
MW-10 MW-10 MW-10 MW-10	12/15/2021 2/15/2022 6/7/2022 9/28/2022	56.17 56.17 56.17 56.17		7.44 7.60 9.70	45.84 48.15 48.73 48.57 46.47	-	362 665 B 57.8 J 1,700	171 J 241 <66.7 381	**	<250 [<250] <83.3 <83.3 <83.3 186 J	-	0.230 J [0.230 J] <0.0941 <0.0941 <0.0941 0.166 J	9.90 [9.78] 1.54 1.86 <0.278 19.9	19.7 [19.4] 2.16 4.52 <0.137 1.81	87 [85.6] 1.89 J 2.16 J <0.174 17.8	<0.101 <0.101 <0.101 <1.00	<0.849 <0.849 <2.00	<6.00 [<6.00]		Slight odor, no visible sheen
MW-10 MW-10 MW-10	12/15/2021 2/15/2022 6/7/2022	56.17 56.17 56.17 56.17 56.17		8.02 7.44 7.60	45.84 48.15 48.73 48.57 46.47 47.05 47.26	-	362 665 B 57.8 J 1,700 1,760	171 J 241 <66.7 381 355 <200	***	<250 [<250] <83.3 <83.3 <83.3 186 J <250	-	0.230 J [0.230 J] <0.0941 <0.0941 <0.0941 0.166 J <1.00 J3	9.90 [9.78] 1.54 1.86 <0.278 19.9 13.2 <1.00	19.7 [19.4] 2.16 4.52 <0.137	87 [85.6] 1.89 J 2.16 J <0.174 17.8 31.9	<0.101 <0.101 <0.101	<0.849 <0.849 <2.00 <2.00 <2.00	<6.00 [<6.00]		Slight odor, no visible sheen
MW-10 MW-10 MW-10 MW-10 MW-10 MW-10 MW-10	12/15/2021 2/15/2022 6/7/2022 9/28/2022 1/5/2023 3/23/2023 6/21/2023	56.17 56.17 56.17 56.17 56.17 56.17 56.17	## ## ## ## ## ## ## ## ## ## ## ## ##	8.02 7.44 7.60 9.70 9.12 8.91 8.82	45.84 48.15 48.73 48.57 46.47 47.05 47.26 47.35		362 665 B 57.8 J 1,700 1,760 197 B 88.0 B J	171 J 241 <66.7 381 355 <200 <200	*** *** *** *** *** *** *** ***	<250 [<250] <83.3 <83.3 <83.3 186 J <250 <250 <250		0.230 J [0.230 J] <0.0941 <0.0941 <0.0941 0.166 J <1.00 J3 <1.00 <1.00	9.90 [9.78] 1.54 1.86 <0.278 19.9 13.2 <1.00 0.334 J	19.7 [19.4] 2.16 4.52 <0.137 1.81 7.86 <1.00 <1.00	87 [85.6] 1.89 J 2.16 J <0.174 17.8 31.9 0.221 J <3.00	<0.101 <0.101 <0.101 <1.00 <1.00 <1.00 <1.00 <1.00	<0.849 <0.849 <2.00 <2.00 <2.00 <1.51 J	-6.00 [-6.00]     	## ## ## ## ## ## ## ## ## ## ## ## ##	Slight odor, no visible sheen
MW-10 MW-10 MW-10 MW-10 MW-10 MW-10 MW-10 MW-10	12/15/2021 2/15/2022 6/7/2022 9/28/2022 1/5/2023 3/23/2023 6/21/2023 9/12/2023	56.17 56.17 56.17 56.17 56.17 56.17 56.17 56.17	## ## ## ## ## ## ## ## ## ## ## ## ##	8.02 7.44 7.60 9.70 9.12 8.91 8.82 10.84	45.84 48.15 48.73 48.57 46.47 47.05 47.26 47.35 45.33		362 665 B 57.8 J 1,700 1,760 197 B 88.0 B J 2,100	171 J 241 <66.7 381 355 <200 <200 515	*** *** *** *** *** *** *** *** *** **	<250 [<250] <83.3 <83.3 <83.3 186 J <250 <250 <250 <83.3		0.230 J [0.230 J] <0.0941 <0.0941 <0.0941 0.166 J <1.00 J3 <1.00 <1.00 0.222 J	9.90 [9.78] 1.54 1.86 <0.278 19.9 13.2 <1.00 0.334 J 21.9	19.7 [19.4] 2.16 4.52 <0.137 1.81 7.86 <1.00 <1.00	87 [85.6] 1.89 J 2.16 J <0.174 17.8 31.9 0.221 J <3.00 17.5	<0.101 <0.101 <0.101 <1.00 <1.00 <1.00 <1.00 <1.00	<ul> <li>0.849</li> <li>0.849</li> <li>2.00</li> <li>2.00</li> <li>2.00</li> <li>1.51 J</li> <li>0.849</li> </ul>	<6.00 [<6.00]	## ## ## ## ## ## ## ## ## ## ## ## ##	Slight odor, no visible sheen
MW-10 MW-10 MW-10 MW-10 MW-10 MW-10 MW-10 MW-10 MW-10 MW-10	12/15/2021 2/15/2022 6/7/2022 9/28/2022 1/5/2023 3/23/2023 6/21/2023 9/12/2023 12/13/2023 2/21/2024	56.17 56.17 56.17 56.17 56.17 56.17 56.17 56.17 56.17 56.17	*** *** *** *** *** *** *** *** *** **	8.02 7.44 7.60 9.70 9.12 8.91 8.82 10.84 9.04	45.84 48.15 48.73 48.57 46.47 47.05 47.26 47.35 45.33 47.13 46.62		362 665 B 57.8 J 1,700 1,760 197 B 88.0 B J 2,100 2,950 4,820	171 J 241 <66.7 381 355 <200 <200 515 561 634		<250 [<250] <83.3 <83.3 <83.3 186 J <250 <250 <250 <83.3 <83.3 <83.3 <83.3 <83.3		0.230 J [0.230 J] <0.0941 <0.0941 <0.0941 <0.0941 0.166 J <1.00 J <1.00 <1.00 <222 J <0.0941 0.224 J	9.90 [9.78] 1.54 1.86 <0.278 19.9 13.2 <1.00 0.334 J 21.9 22.6 22.8	19.7 [19.4] 2.16 4.52 <-0.137 1.81 7.86 <-1.00 <-1.00 1.11 1.36 2.89	87 [85.6] 1.89 J 2.16 J <0.174 17.8 31.9 0.22 L J <3.00 17.5 31.5 21.7	<0.101 <0.101 <0.101 <1.00 <1.00 <1.00 <1.00 <1.00 <0.101 <0.101 <0.101	<ul> <li>-0.849</li> <li>-0.849</li> <li>-2.00</li> <li>-2.00</li> <li>-2.00</li> <li>-2.00</li> <li>-3.00</li> <li>-3.00</li> <li>-3.49</li> <li>-0.849</li> <li>-0.849</li> </ul>	<6.00 [<6.00]	-	Slight odor, no visible sheen
MW-10 MW-10 MW-10 MW-10 MW-10 MW-10 MW-10 MW-10 MW-10 MW-10 MW-10	12/15/2021 2/15/2022 6/7/2022 9/28/2022 1/5/2023 3/23/2023 6/21/2023 9/12/2023 12/13/2023 2/21/2024 6/10/2024	56.17 56.17 56.17 56.17 56.17 56.17 56.17 56.17 56.17 56.17		8.02 7.44 7.60 9.70 9.12 8.91 8.82 10.84 9.04 9.55 9.03	45.84 48.15 48.73 48.57 46.47 47.05 47.26 47.35 45.33 47.13 46.62 47.14		362 665 B 57.8 J 1,700 1,760 197 B 88.0 B J 2,100 2,950 4,820	171 J 241 46.7 381 355 200 515 561 634 76.8 J	10 10 10 10 10 10 10 10 10 10 10 10 10 1	<250 [<250] <83.3 <83.3 <83.3 186.1 <250 <250 <250 <83.3 <83.3 <83.3 <83.3 <83.3		0.230 J [0.230 J] <0.0941 <0.0941 <0.0941 0.166 J <1.00 J <1.00 J <1.00 <1.00 <2.00 41 0.222 J <0.0941 0.254 J <0.0941	9.90 [9.78] 1.54 1.86 <-0.278 19.9 13.2 <-1.00 0.334 J 21.9 22.6 22.8 <-0.278	19.7 [19.4] 2.16 4.52 <0.137 1.81 7.86 <1.00 <1.00 1.11 1.36 2.89 <0.137	87 [85.6] 1.89 J 2.16 J	<0.101 <0.101 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <0.101 <0.101 <0.101 <0.101	-0.849 -0.849 -0.849 -2.00 -2.00 -2.00 -1.51 J -0.849 -0.849 -0.849 -0.849	<6.00 [<6.00]	-	Slight odor, no visible sheen
MW-10 MW-10 MW-10 MW-10 MW-10 MW-10 MW-10 MW-10 MW-10 MW-10 MW-10	12/15/2021 2/15/2022 9/28/2022 9/28/2022 1/5/2023 3/23/2023 6/21/2023 12/13/2023 2/21/2024 6/10/2024 9/17/2024	56.17 56.17 56.17 56.17 56.17 56.17 56.17 56.17 56.17 56.17	*** ***  **  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  **  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  **  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  **  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  **  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  **  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  **  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  **  ***  *	8.02 7.44 7.60 9.70 9.12 8.91 8.82 10.84 9.04 9.55 9.03	45.84 48.15 48.73 48.57 46.47 47.05 47.26 47.35 45.33 47.13 46.62	100 mm 10	362 665 B 57.8 J 1,760 197 B 88.0 B J 2,160 2,950 4,820 171 464	171 J 241 <66.7 381 355 <200 <200 515 561 634	# 1	<250 [<250] <83.3 <83.3 <83.3 186 J <250 <250 <250 <83.3 <83.3 <83.3 <83.3 <83.3		0.230 J [0.230 J]  <0.0941 <0.0941 <0.0941 0.166 J <1.00 J <1.00 J <1.00 <1.00 0.222 J <0.0941 <0.0941 <0.0941 <0.0941	9.90 [9.78] 1.54 1.86 <-0.278 19.9 13.2 <-1.00 0.334 J 21.9 22.6 22.8 <-0.278 5.32	19.7 [19.4] 2.16 4.52 -0.137 1.81 7.86 <1.00 <1.00 -1.11 1.36 2.89 -0.137 -0.137	87 [85.6] 1.89 J 2.16 J -0.174 17.8 31.9 0.221 J -3.00 17.5 31.5 21.7 -0.174 2.23 J	<0.101 <0.101 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <0.101 <0.001 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <	-0.849 -0.849 -2.00 -2.00 -2.00 1.51 J -0.849 -0.849 -0.849 -0.849 -0.849 -0.849	<6.00 [<6.00]	-	Slight odor, no visible sheen
MW-10 MW-10 MW-10 MW-10 MW-10 MW-10 MW-10 MW-10 MW-10 MW-10 MW-10	12/15/2021 2/15/2022 6/7/2022 9/28/2022 1/5/2023 3/23/2023 6/21/2023 9/12/2023 12/13/2023 2/21/2024 6/10/2024	56.17 56.17 56.17 56.17 56.17 56.17 56.17 56.17 56.17 56.17		8.02 7.44 7.60 9.70 9.12 8.91 8.82 10.84 9.04 9.05 9.03 9.45	45.84 48.15 48.73 48.57 46.47 47.05 47.26 47.35 45.33 47.13 46.62 47.14		362 665 B 57.8 J 1,700 1,760 197 B 88.0 B J 2,100 2,950 4,820	171 J 241 46.7 381 355 200 515 561 634 76.8 J		<250 [<250] <83.3 <83.3 <83.3 186.1 <250 <250 <250 <83.3 <83.3 <83.3 <83.3 <83.3		0.230 J [0.230 J] <0.0941 <0.0941 <0.0941 <0.0941 <0.0041 <1.00 JS <1.00 JS <1.00 <1.00 0.222 J <0.0941 0.254 J <0.0941 <0.0941 <0.0941	9.90 [9.78] 1.54 1.86 <-0.278 19.9 13.2 <-1.00 0.334 J 21.9 22.6 22.8 <-0.278	19.7 [19.4] 2.16 4.52 <0.137 1.81 7.86 <1.00 <1.00 1.11 1.36 2.89 <0.137	87 [85.6] 1.89 J 2.16 J -0.174 17.8 31.9 0.221 J <0.00 17.5 31.5 21.7 -0.174 2.23 J	<0.101 <0.101 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <0.101 <0.101 <0.101 <0.101	-0.849 -0.849 -0.849 -2.00 -2.00 -2.00 -1.51 J -0.849 -0.849 -0.849 -0.849	<6.00 [<6.00]	-	Slight odor, no visible sheen
MW-10	12/15/2021 2/15/2022 6/7/2022 9/28/2022 1/5/2023 9/12/2023 9/12/2023 2/21/2024 6/10/2024 9/17/2024 12/16/2002 12/16/2003 6/4/2003	56.17 56.17 56.17 56.17 56.17 56.17 56.17 56.17 56.17 56.17		8.02 7.44 7.60 9.70 9.12 8.91 8.82 10.84 9.04 9.03 9.45 11.68 10.34 10.34 9.83	45.84 48.15 48.73 48.57 46.47 47.05 47.26 47.35 45.33 47.13 46.62 47.14		362 665 B 57.8 J 1,760 1,760 197 B 88.0 B J 2,190 4,820 177 464 22,000 19,000	171 J 241 46.7 381 355 200 515 561 634 76.8 J	790 600	<250 [<250] <83.3 <83.3 <83.3 186.1 <250 <250 <250 <83.3 <83.3 <83.3 <83.3 <83.3	280 <250	0.201/[0.203] 0.0041 0.0041 0.0041 0.0041 0.1661 0.1663 0.1003 0.100 0.2221 0.0041 0.2241 0.0041 0.2541 0.0041 1.00	9.90 [9.78] 9.90 [9.78] 1.54 1.154 1.166 -0.278 19.9 13.2 -1.100 0.334.J 21.9 22.6 22.8 -0.278 5.32 980 70 5500	19.7 [19.4] 2.16 4.52 4.52 4.137 1.81 7.86 <1.00 <1.00 <1.00 <1.00 <1.00 <1.01 7.86 6.01 7.87 6.01 7.87 6.01 7.88 6.01 7.89 6.01 7.89 6.01 7.80 6.00 6.00 6.00 6.00 6.00 6.00 6.00 6	87 [85.6] 1.89 J 2.16 J -0.174 17.8 31.9 0.221 J -3.00 17.5 31.5 21.7 -0.174 2.23 J 3,000 2,3	<0.101 <0.101 <0.101 <1.00 <1.00 <1.00 <1.00 <1.00 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.201 <0.202 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.203 <0.2	-0.849 -0.849 -2.00 -2.00 -2.00 1.51 J -0.849 -0.849 -0.849 -0.849 -0.849 -0.849	<6.00 [<6.00]		Slight oder, no visible sheen
MW-10 MW-10 MW-10 MW-10 MW-10 MW-10 MW-10 MW-10 MW-10 MW-10 MW-10 MW-10 MW-10 MW-10	12/15/2021 2/15/2022 6/7/2022 9/28/2022 1/5/2023 3/23/2023 6/21/2023 12/13/2023 2/21/2024 9/17/2024 12/16/2002 3/6/2003	56.17 56.17 56.17 56.17 56.17 56.17 56.17 56.17 56.17 56.17		8.02 7.44 7.60 9.70 9.12 8.91 8.82 9.04 9.55 9.03 9.45	45.84 48.15 48.73 48.57 46.47 47.05 47.26 47.35 45.33 47.13 46.62 47.14		362 665 B 57.8 J 1.700 1.760 197 B 88.0 B J 2.100 2.950 171 464 22,000 19,000	171 J 241 46.7 381 355 200 515 561 634 76.8 J	790	<250 [<250] <83.3 <83.3 <83.3 186.1 <250 <250 <250 <83.3 <83.3 <83.3 <83.3 <83.3	280	0.20.J [0.230.J] <0.0941 <0.0941 <0.0941 <0.0941 <1.00.J3 <1.00 <1.00 <2.100 <2.22.J <0.0941 <0.0941 <0.0941 <0.0941 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.0	9.90 [9.78] 1.54 1.86 -0.278 19.9 13.2 -<1.00 0.334 J 21.9 22.6 -2.28 -0.278 5.32	19.7 [19.4] 2.16 4.52 -0.137 1.81 7.86 <1.00 <1.00 <1.00 <1.00 <1.00 <1.037 -0.137 -0.137 -0.137 -0.137 -0.137	87 [85.6] 1.89 J 2.16 J -0.174 17.8 31.9 0.221 J -<.3.00 17.5 31.5 21.7 -0.174 2.23 J 3,000 2,300	<ul> <li>0.101</li> <li>0.101</li> <li>0.101</li> <li>0.101</li> <li>0.100</li> <li>0.100</li> <li>0.100</li> <li>0.101</li> <li></li></ul>	-0.849 -0.849 -2.00 -2.00 -2.00 1.51 J -0.849 -0.849 -0.849 -0.849 -0.849 -0.849	<6.00 [<6.00]	-	Slight oder, no vaishe sheen
MW-10 MW-11 MW-11 MW-11 MW-11 MW-11 MW-11 MW-11 MW-11	12/15/2021 2/15/2022 6/7/2022 9/28/2022 1/5/2023 3/23/2023 6/21/2023 12/13/2023 12/13/2023 2/21/2024 9/17/2024 9/17/2024 12/16/2002 3/6/2003 9/11/2003 12/17/2003	56.17 56.17 56.17 56.17 56.17 56.17 56.17 56.17 56.17 56.17		8.02 7.44 7.60 9.70 9.12 8.91 8.82 10.84 9.03 9.03 9.45 11.68 10.34 9.83 10.26 9.61 9.61	45.84 48.15 48.73 48.57 46.47 47.05 47.26 47.35 45.33 47.13 46.62 47.14		362 665 B 57.8 J 1,760 1,760 1,760 197 B 88.0 B J 2,160 2,259 4,820 171 464 22,000 16,000 16,000 63 3,300,83 4,700	171 J 241 46.7 381 355 200 515 561 634 76.8 J	790 600 <250 260/<250 <800*	<250 [<250] <83.3 <83.3 <83.3 186.1 <250 <250 <250 <83.3 <83.3 <83.3 <83.3 <83.3	280 <250 <250 <250 <250/<250 <1,000	0.201 [0.203] [0.204] (0.0041] (0.0041] (0.0041] (0.0041] (0.0041] (0.166] (1.00] (1.0	9.90 [9.78] 1.54 1.86 -0.2278 19.9 13.2 -(1.00 0.334.1 21.9 22.6 -(2.28 -(0.278 -(3.34.2) -(3.34	12.00 (4.00	87 [856] 1.89 J 2.16 J -0.174 11.8 31.9 0.221 J -3.00 11.5 21.7 -0.174 2.23 J 3.000 2.100	<ul> <li>0.101</li> <li>0.101</li> <li>0.101</li> <li>1.00</li> <li>1.00</li> <li>1.00</li> <li>1.00</li> <li>1.00</li> <li>1.00</li> <li>1.00</li> <li>0.101</li> <li>0.101</li> <li>0.101</li> <li>0.101</li> <li>0.101</li> <li>0.201</li> <li>0.201<!--</td--><td>-0.849 -0.849 -2.00 -2.00 -2.00 1.51 J -0.849 -0.849 -0.849 -0.849 -0.849 -0.849</td><td>&lt;6.00 [&lt;6.00]</td><td>## ## ## ## ## ## ## ## ## ## ## ## ##</td><td>Slight odor, on visible sheen</td></li></ul>	-0.849 -0.849 -2.00 -2.00 -2.00 1.51 J -0.849 -0.849 -0.849 -0.849 -0.849 -0.849	<6.00 [<6.00]	## ## ## ## ## ## ## ## ## ## ## ## ##	Slight odor, on visible sheen
MW-10 MW-10 MW-10 MW-10 MW-10 MW-10 MW-10 MW-10 MW-10 MW-10 MW-10 MW-11 MW-11 MW-11 MW-11 MW-11 MW-11	12/15/2021 2/15/2022 6/7/2022 9/28/2022 1/5/2023 3/23/2023 3/23/2023 3/23/2023 12/13/2023 12/13/2023 12/13/2023 12/13/2024 11/2024 12/16/2002 3/6/2003 6/11/2004 12/16/2002 3/6/2003 6/11/2004 12/17/2003 6/11/2004	56.17 56.17 56.17 56.17 56.17 56.17 56.17 56.17 56.17 56.17 56.17 56.17 56.17 56.17 56.17 56.17 56.17 56.17		8.02 7.44 7.60 9.70 9.12 8.91 8.82 10.84 9.04 9.55 9.03 11.68 10.26 9.61 9.12 9.42	45.84 48.15 48.73 48.73 48.57 46.47 47.05 47.26 47.35 45.33 47.13 46.62 47.14 46.72		362 578 J 578 J 1,760 1,76	171 J 241 46.7 381 355 200 515 561 634 76.8 J	790 600 <250 260/<250 <800* <250 <250 <250	<250 [<250] <83.3 <83.3 <83.3 186.1 <250 <250 <250 <83.3 <83.3 <83.3 <83.3 <83.3	280 <250 <250 <250/<250 <1,000 <250 <250	0.291 [0.293] [0.294] (0.0941	9.90 [9.78] 1.54 1.86 -0.278 19.9 13.2 -<.1.00 0.334 J 21.9 22.6 -0.278 5.32 980 70 590 -0.5	1921 948 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$7 [856] 1.89 J 2.16 J 6.0.174 11.8 31.9 0.221 J 3.19 0.221 J 3.10 11.5 21.7 0.0.174 2.23 J 3.000 1.00 3.000 1.00 3.000	<0.101 <0.101 <0.101 <1.00 <1.00 <1.00 <1.00 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <2.0 <20* <2.5 2.1*2*2.5 2.1*2*2.5	-0.849 -0.849 -2.00 -2.00 -2.00 1.51 J -0.849 -0.849 -0.849 -0.849 -0.849 -0.849	<600 [-6.00]		Slight oder, on visible shreer
MW-10 MW-11	12/15/2021 2/15/2022 6/7/2022 9/28/2022 1/5/2023 3/23/2023 6/21/2023 9/12/2023 9/12/2023 9/12/2023 12/15/2024 12/15/2024 12/15/2024	56.17 56.17 56.17 56.17 56.17 56.17 56.17 56.17 56.17 56.17 56.17 56.17 56.17 56.17 56.17 56.17 56.17 56.17 56.17		8.02 7.44 7.60 9.70 9.12 8.91 8.82 10.84 9.04 9.55 9.03 9.45 11.68 10.34 9.83 10.26 9.12 9.12 9.12 9.12	45.84 48.73 48.73 48.73 46.47 47.05 47.26 47.26 47.33 47.13 46.72 47.14 46.72		362 565 B 578 J 1,760 1,760 1,760 197 B 88.0 B J 2,950 4,820 171 464 22,060 19,060 63 5,30083 4,760 3,860 1,100	171 J 241 46.7 381 355 200 515 561 634 76.8 J	790 600 <250 260×250 <800* <250 <250 <410	<250 [<250] <83.3 <83.3 <83.3 186.1 <250 <250 <250 <83.3 <83.3 <83.3 <83.3 <83.3	280 <250 <250 <250-250 <1,000 <250 <250 <100	0.250 [0.250]	9.90 [9.78] 1.54 1.86 -0.2278 1.99 1.13.2 -1.00 2.2.6 -2.2.8 -2.2.8 -0.278 -0.278 -0.278 -0.70 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.	197,1934) 27,16 4.52 4.52 4.51 7.86 4.100 1.11 1.16 2.89 4.01 7.87 6.01 7.87 6.01 7.87 6.01 7.87 6.01 7.88 6.01 7.89 6.01 7.89 6.01 7.89 6.01 7.80 6.01 7.80 6.01 7.80 6.01 7.80 6.01 7.80 6.01 7.80 6.01 7.80 6.01 7.80 6.01 7.80 6.01 7.80 6.01 7.80 6.01 7.80 6.01 7.80 6.01 7.80 6.01 7.80 6.01 7.80 6.01 7.80 6.01 7.80 7.80 7.80 7.80 7.80 7.80 7.80 7.80	\$7 [85.6] 1.89 J 2.16 J -0.174 17.8 31.9 0.221 J -3.00 17.5 31.15 21.7 2.23 J -2.30 2.300 2.300 2.300 2.300 2.300 2.300 2.300 2.300 2.300 3.000	0,101   0,101   0,101   0,101   0,101   0,101   0,100   0,100   0,100   0,101   0,10	-0.849 -0.849 -2.00 -2.00 -2.00 1.51 J -0.849 -0.849 -0.849 -0.849 -0.849 -0.849		## ## ## ## ## ## ## ## ## ## ## ## ##	Slight odor, no visible sheen
MW-10 MW-11	12/15/2021 2/15/2022 5/7/2022 9/28/2022 15/2023 3/23/2023 5/21/2023 12/13/2023 2/21/2024 6/10/2024 12/16/2002 3/6/2003 6/11/2024 12/15/2023 12/15/2023 12/15/2023 12/15/2023 12/15/2024	56.17 56.17		8.02 7.44 7.50 9.70 9.12 8.91 8.82 9.04 9.05 9.03 9.45 10.54 9.83 10.26 9.61 9.61 9.62 9.62 9.62 9.63 9.63 9.64 9.64 9.64 9.64 9.65 9.64 9.65 9.64 9.65 9.65 9.65 9.65 9.65 9.65 9.65 9.65	45.84 48.15 48.73 48.73 48.73 46.47 47.05 47.26 47.26 47.25 46.72 46.72 46.72 47.74 46.72		362 578.1 578.1 1,760 1,760 1,760 1,760 1,760 2,950 1,760 2,950 1,71 1,71 1,71 1,71 1,71 1,71 1,71 1,7	171 J 241 46.7 381 355 200 515 561 634 76.8 J	790 600 <250 260<250 <800° <250 <250 <410 <400	<250 [<250] <83.3 <83.3 <83.3 186.1 <250 <250 <250 <83.3 <83.3 <83.3 <83.3 <83.3	280 <250 <250 <250 <250/-250 <1,000 <250 <250 <1,000 <500 <500	0.250 [0.250]	9.90 [9.78] 1.54 1.86 -0.2278 19.9 13.2 -1.00 0.334 J 22.6 22.8 -0.278 5.32 980 70 6.70 6.70 6.70 6.70 19 28 7.6 3 10	100 mg	\$7 [85.6] 1.89 J 2.16 J -0.174 17.8 31 J 0.221 J 0.23 J 0.3000 2.30000 2.30000 2.30000 2.30000 2.30000 2.30000 2.30000 2.30000 2.30000 2.30000 2.30000 2.30000 2	<0.101 <0.101 <0.101 <1.00 <1.00 <1.00 <1.00 <1.00 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.1		<6.00 [<6.00] ——————————————————————————————————		Slight oder, an vaishe sheen
MW-10 MW-11	12/15/2021 2/15/2022 67/2022 97/2022 15/2023 3/23/2023 67/2023 3/23/2023 3/23/2023 5/21/2023 91/2/2023 12/13/2023	56.17 56.17		8.02 7.44 7.50 9.70 9.12 8.91 8.82 10.84 9.04 9.03 9.45 11.68 10.34 9.83 10.34 9.83 9.83 10.34 9.83 10.34 9.83 10.34 9.83 10.34 9.83 10.34	48.584 48.73 48.73 46.47 46.47 47.26 47.26 47.26 47.26 47.26 47.26 47.26 46.21 46.22 46.22 46.22 46.22 46.23 46.24 46.24 46.24 46.25 46.26 46.27 47.26 4		362 578.1 578.1 1,760 1,760 1,760 1,760 1,760 2,950 1,71 88.0 B.J 2,100 2,950 1,71 1,71 1,71 1,71 1,71 1,71 1,71 1,7	171 J 241 46.7 381 355 200 515 561 634 76.8 J	790 600 <250 260/250 <800* <250 410 <400 350	<250 [<250] <83.3 <83.3 <83.3 186.1 <250 <250 <250 <83.3 <83.3 <83.3 <83.3 <83.3	280	0.250 [0.250 J] -0.0941 -0.0941 -0.0941 -0.0941 -0.166 J -1.000 S	9.90 (9.78) 1.54 1.86 -0.278 19.9 13.2 -1.00 0.319 2.2.6 -0.278 -0.278 -0.319 2.2.6 -0.278 -0	197 [19.4] 2.16 4.52 -0.1377 1.81 -1.81 -7.86 -1.00 -1.10 -1.11 -1.14 -1.15 -1	\$7 [85.6] 1.89 J 2.16 J -0.174 17.8 31 J 0.22 J 17.8 31 J 0.22 J 3.3 J 0.22 J 0.22 J 0.23 J 0.24 J 0.25 J 0	49,101   40,101   40,101   40,101   41,000   41,000   41,000   41,000   41,000   41,000   41,000   41,000   41,000   41,000   40,101   4		-6.00 [-6.00]		Slight oder, on visible sheen  Well inaccessible
MW-10 MW-11	12/15/2021 2/15/2022 5/7/2022 9/28/2023 3/23/2023 9/12/2023 9/12/2023 9/12/2023 12/13/2024 6/10/2024 9/17/2024 9/17/2024 9/17/2024 9/17/2024 9/17/2024 9/17/2024 9/17/2024 9/17/2024 9/17/2024 9/17/2024	56.17 56.17 56.17 56.17 56.17 56.17 56.17 56.17 56.17 56.17 56.17 56.17 56.17 56.17 56.17 56.17 56.17 56.25 56.32 56.32		8.02 7.44 7.50 9.70 9.12 8.91 8.82 9.04 9.05 9.03 9.45 10.54 9.83 10.26 9.61 9.61 9.62 9.62 9.62 9.63 9.63 9.64 9.64 9.64 9.64 9.65 9.64 9.65 9.64 9.65 9.65 9.65 9.65 9.65 9.65 9.65 9.65	45.84 48.15 48.73 48.73 48.73 46.47 47.05 47.26 47.26 47.25 46.72 46.72 46.72 47.74 46.72		362 665 B 578 J 1700 1.760 1.7	171 J 241 46.7 381 355 200 515 561 634 76.8 J	790 600 <250 260<250 <800° <250 <250 <410 <400	<250 [<250] <83.3 <83.3 <83.3 186.1 <250 <250 <250 <83.3 <83.3 <83.3 <83.3 <83.3	280 <250 <250 <250 <250/-250 <1,000 <250 <250 <1,000 <500 <500	0.201 [0.204] [0.204] (0.0041] (0.0041] (0.0041] (0.0041] (0.0041] (0.1661) (0.1661) (1.00) (1.00) (0.224] (0.0041] (0.224] (0.0041] (0.224] (0.0041] (0.004	9.90 [9.78] 1.54 1.86 -0.2278 19.9 13.2 -1.00 0.334 J 22.6 22.8 -0.278 5.32 980 70 6.70 6.70 6.70 6.70 19 28 7.6 3 10	100 mg	\$7 [85.6] 1.89 J 2.16 J -0.174 17.8 31 J 0.221 J 0.23 J 0.3000 2.30000 2.30000 2.30000 2.30000 2.30000 2.30000 2.30000 2.30000 2.30000 2.30000 2.30000 2.30000 2	<0.101 <0.101 <0.101 <1.00 <1.00 <1.00 <1.00 <1.00 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.101 <0.1		<6.00 [<6.00] ——————————————————————————————————		
MW-10 MW-11	12115/2021 2/15/2022 67/2022 9/28/2022 1/5/2023 3/23/2031 9/12/2023 9/12/2023 9/12/2023 9/12/2023 9/12/2024 9/17/202	56.17 56.17		8.02 7.44 7.50 9.70 9.12 8.91 10.84 9.04 9.05 9.05 9.03 11.68 10.34 9.83 10.26 9.45 9.45 10.34 9.45 10.34 9.45 10.34 10.34 10.34 10.35 10.	4554 4815 4873 4857 4647 4705 47126 47126 47136 47136 47136 47136 4714 4716 4714 4716 4714 4716 4714 4716 4714 4716 4714 4716 4714 4714		362 665 B 578 J 1700 1.760 1.760 1.760 1.760 1.760 1.760 1.760 1.760 1.760 1.760 1.760 1.760 1.760 1.760 1.771 464 1.771 464 1.771 465 1.771 466 1.771 1.771 1.770	171.1 241 246.7 381 385 355 4200 4200 4200 4200 4200 4200 4200 42	790 600 <250 260/250 <800* <250 410 <400 350	<250 (<250) (250) (251) (253) <253 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250<	280	0.201 [0.204] [0.204] [0.204] [0.204] [0.204] [0.204] [0.204] [0.166] [0.204] [0.166] [0.204]	9.90 [9.78] 1.54 1.86 -0.278 19.9 13.2 -(1.00 0.334 J 22.6 22.8 -0.278 5.32 -0.278 5.32 -0.50 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.	197 [194] 197 [194] 2 [16 4 32 4 32 4 317 1 181 7 36 4 1,00 1 1,11 1 1,16 2 39 4 1,17 7 40 6 40 6 40 6 40 6 7 7 8 6 6 7 8 7 8 6 6 7 9 7 8 7 8 6 6 7 9 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8	\$7 [85.6] 1.89 J 2.16 J -0.174 17.8 31.9 0.221 J -3.00 17.5 21.7 -0.174 2.23 J -0.174 2.23 J -0.174 2.30 3.00 2.00 3.00 3.00 3.00 4.00 3.00 5.00 3.00 5.00 5.00 5.00 5.00 5	-0.101 -0.101 -0.101 -0.101 -0.101 -0.101 -0.101 -0.100 -0		-6.00 [-6.00]		
MW-10 MW-11	12/15/2021 2/15/2022 2/15/2022 9/28/2022 1/5/2023 3/23/2023 15/2023 3/23/2023 12/13/2024 9/17/2024 9/17/2024 9/17/2024 9/17/2024 12/13/2024 12/13/2024 12/13/2024 12/13/2024 12/13/2024 12/13/2024 12/13/2024 12/13/2024 12/13/2024 12/13/2024 13/13/2024 13/13/2024 13/13/2024 13/13/2024 13/13/2024 13/13/2024 13/13/2024 13/13/2024 13/13/2026 13/13/2026 13/13/2026	56.17 56.17		8.02 7.44 7.50 9.70 9.12 8.91 10.84 9.04 9.05 10.83 10	45.54 48.15 48.73 48.67 48.57 46.67 47.26 47.26 47.26 47.13 47.14 46.72 47.14 46.72 46.72 46.73 47.14 46.72 46.73 47.14		362 578.1 578.1 1,760 1,	171 J 241 <866.7 281 381 355 <200 <200 <515 561 684 76.8 J 1947	790 600 <250 260/250 <800* <250 410 <400 350	<250 [<250] <83.3 <83.3 <83.3 <83.3 <83.3 <83.3 <250 <250 <250 <250 <33.3 <83.3 <83.3 <83.3 <83.3 <83.3 <83.3 <83.3 <83.3 <83.3 <83.3 <83.3 <83.3 <83.3 <83.3 <83.3 <83.3 <83.3 <83.3 <83.3 <83.3 <83.3 <83.3 <83.3 <83.3 <83.3 <83.3 <83.3 <83.3 <83.3 <83.3 <83.3 <83.3 <83.3 <83.3 <83.3 <83.3 <83.3 <83.3 <83.3 <83.3 <83.3 <83.3 <83.3 <83.3 <83.3 <83.3 <83.3 <83.3 <83.3 <83.3 <83.3 <83.3 <83.3 <83.3 <83.3 <83.3 <83.3 <83.3 <83.3 <83.3 <83.3 <83.3 <83.3 <83.3 <83.3 <83.3 <83.3 <83.3 <83.3 <83.2 <84.0 <84.0 <84.0 <84.0 <84.0 <84.0 <84.0 <84.0 <84.0 <84.0 <84.0 <84.0 <84.0 <84.0 <84.0 <84.0 <84.0 <84.0 <84.0 <84.0 <84.0 <84.0 <84.0 <84.0 <84.0 <84.0 <84.0 <84.0 <84.0 <84.0 <84.0 <84.0 <84.0 <84.0 <84.0 <84.0 <84.0 <84.0 <84.0 <84.0 <84.0 <84.0 <84.0 <84.0 <84.0 <84.0 <84.0 <84.0 <84.0 <84.0 <84.0 <84.0 <84.0 <84.0 <84.0 <84.0 <84.0 <84.0 <84.0 <84.0 <84.0 <84.0 <84.0 <84.0 <84.0 <84.0 <84.0 <84.0 <84.0 <84.0 <84.0 <84.0 <84.0 <84.0 <84.0	280	0.250 [0.250 J] -0.0941 -0.0941 -0.0941 -0.0941 -0.166 J -1.000 S	9.90 (9.78) 1.54 1.86 -0.278 19.9 13.2 -1.02 -1.03 -1.	19.7 [19.4] 19.7 [19.4] 4.52 -0.1377 1.81 7.86 -1.00 -1.10 -	\$7 [85.6] 1.89 J 2.16 J 2.16 J 2.16 J 2.17 J 17.8 31.9 J 2.21 J 2.20 J 2	-0.101 -0.101 -0.101 -0.101 -0.101 -1.00 -		-6.00 [-6.00]		
MW-10 MW-11	12/15/2021 22/15/2022 67/2022 67/2022 67/2022 67/2022 15/2023 15/2023 12/2023 12/12/2023 12/12/2023 12/12/2023 12/12/2023 12/12/2024 12/16/2002 12/16/2003 12/17/2024 12/16/2003 12/17/2004 12/16/2005 12/12/2006 11/2006	\$6.17 \$6		8.02 7.44 7.50 9.70 9.12 8.91 10.84 9.04 9.05 11.68 10.33 10.33 10.35 10.31 11.68 10.31 10	45.54 48.15 48.73 48.67 48.57 46.67 47.06 47.26 47.36 47.37 46.37 47.37		362 665 B 578 J 1700 1,760 1,7	171 J 241 <66,7 241 <66,7 381 355 <200 <200 <5105 <61 634 76,8 J 1947	790 600 600 6250 6000 6250 6000 6250 6250	<250 (<250) (250) (251) (253) <253 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250<	280 -d250 -d250 -d250 -d250-d250 -d250-d250 -d250-d250 -d250	0.250 [0.250]	9.90 [9.78] 1.54 1.86 -0.278 19.9 13.2 -(1.00 0.334 J 22.6 22.8 -0.278 5.32 -0.278 5.32 -0.50 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.	19.7[19.4] 19.7[19.4] 4.52 -0.01377 1.81 7.86 -1.00 -1.11 1.55 -2.07 -1.11 1.55 -2.07 -1.11 -1.15 -2.07 -1.11 -1.15 -2.07 -1.11 -1.15 -2.07 -1.1	\$7 [85.6] 1.89 J 2.16 J 2.16 J 2.16 J 2.17 J 17.8 3.19 J 2.21 J 2.22 J 2.23 J 2.24 D 2.240 C 2.240 C 2.240 C 2.25 J 2.26 D 2.26 D 2.26 D 2.27 D 2.27 D 2.27 D 2.28	-0.101 -0.101 -0.101 -0.101 -0.101 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -0.101 -0.		-6.00 [-6.00]	△1, ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←	
MW-10 MW-11	12/15/2021 2/15/2022 6/7/2022 6/7/2022 6/7/2023 6/2/2023 6/2/2023 6/2/2023 6/2/2023 6/2/2023 6/2/2023 6/2/2024 6/10/2024 6/10/2024 6/10/2024 6/10/2024 6/4/2003	56.17 56.17		8.02 7.44 7.60 9.70 9.12 8.81 10.84 9.85 9.45 11.68 11.	45.54 481.5 487.3 48.47 46.47 470.6 477.36 477.36 473.5 45.33 471.1 46.62 47.14 46.72 47.16 46.72 47.16 46.72 47.16 46.72 47.16 46.72 47.16 46.72 47.16 46.72 47.16 46.72 47.16 46.72 47.16 46.72 47.16 46.72 47.16 46.72 47.16 46.72 47.16 46.72 47.16 46.72 47.16 46.72 47.16 47.1		362 665 B 578 J 1,760 1,	171.1 241 246.7 381 355 350 300 300 300 300 300 300 300 300	790 600 600 6250 2500/250 8008 8008 6250 4210 4410 4400 4400 510 510 510 510 510 510 510 510 510 5	<250 (<250) (250) (250) <a href="#sqs:150">(33.3)</a> <a href="#sqs:150">(33.3)</a> <a href="#sqs:150">(35.3)</a> <a href="#sqs:150">(33.3)</a> <a href="#sqs:150">(33.5)</a>	280 -d259 -d259 -d259 -d259-d259 -d1,000 -d259 -d259 -d200 -	0.201 [0.204] [0.204] [0.204] [0.204] [0.204] [0.204] [0.204] [0.166] [0.204] [0.166] [0.204]	9.90 (9.78) 1.54 1.86 -0.278 19.9 13.2 -(1.00 0.334 J 22.6 22.8 -(0.278 5.32 -(0.278) 9.90 9.90 9.90 9.90 9.90 9.90 9.90 9.9	197,1934) 197,1934) 2,16 4,52 4,52 4,51 1,81 7,86 4,1,00 4,1,00 1,11 1,16 2,89 4,01,37 7,60 4,01,37 7,60 4,01 1,17 6,01,37 7,01 1,17 6,01 1,17 7,01 1,17 7,01 1,17 7,01 1,17 7,01 1,17 7,01 1,17 1,17	87 [85.6] 1.89 J 2.16 J -0.0174 17.8 31.9 0.221 J -5.00 17.5 31.15 21.7 -0.174 2.23 J -0.074 2.23 J -0.074 2.300 2.100 2	-0.101 -0.101 -0.101 -0.101 -0.101 -0.101 -0.100 -1.00		-6.00 [-6.00]		
MW-10 MW-11	1211/s/0021 2/15/2002 2/15/2002 6/7/2002 6/7/2002 1/5/2002 1/5/2003 3/3/3/2003 1/21/2003 1/21/2003 1/21/2004 1/21/2007 1/21/2004 1/21/2007 1/21/2007 1/21/2007 1/21/2007 1/21/2007 1/21/2007 1/21/2007 1/21/2007	56.17 56.22 56.32 56.32 56.32 56.32 56.32 56.32 56.32 56.32 56.32 56.32 56.32 56.32 56.32		8.02 7.44 7.60 9.70 9.12 8.91 10.84 10.84 10.84 10.84 10.84 10.84 10.84 10.84 10.84 10.84 10.84 10.85 10.95 10.95 10.96 1	45.54 48.15 48.73 48.47 48.67 49.75		362 665 B 578 J 1,760 1,	171.1 241 246.7 381 355 350 300 300 300 300 300 300 300 300	790 600 600 600 600 600 600 600 600 600 6	<250 (<250) (250) (250) <a href="#sqs:150">(33.3)</a> <a href="#sqs:150">(33.3)</a> <a href="#sqs:150">(35.3)</a> <a href="#sqs:150">(33.3)</a> <a href="#sqs:150">(33.5)</a>	200 205 259 259 2450 2450 2450 2450 2450 2450 2450 2450	0.250 [0.250]	9.90 (9.78) 1.54 1.86 -0.278 19.9 13.2 -(1.00 0.334 J 22.6 -(2.28 -(0.278 5.32 -(0.278 5.33 -(0.	197 [194] 197 [194] 2,16 4,52 4,17 1,181 7,36 4,100 4,100 1,11 1,16 2,309 4,100 4,101 4,100 4,107 4,10	\$7 [85.6] 1.89 J 2.16 J -0.174 17.8 31 J 0.221 J 0.231 J 0.231 J 0.231 J 0.231 J 0.24 J 0.25 J	-0.101 -0		-6.00 [-6.00]		
MW-10 MW-11	121/5/2021 2/15/2022 6/7/2022 6/7/2022 6/7/2022 6/7/2023 1/5/2023 1/5/2023 1/5/2023 1/5/2023 1/5/2023 1/5/2023 1/5/2023 1/5/2023 1/5/2023 1/5/2023 1/5/2024	\$6.17 \$6.17		8.02 7.44 7.60 9.70 9.12 8.91 9.12 10.54 9.55 9.45 11.68 10.34 9.83 10.34 9.83 10.34 9.83 10.34 10.38	4534 4815 4873 4857 4647 4705 4726 4726 4735 4633 4654 4736 4736 4736 4737 4654 4738 4654 4655 4655 4655 4655		362 665 B 578.1 1790 1.7	171.1 241 246.7 381 355 350 300 300 300 300 300 300 300 300	790 600 -(230) -(240) -(240) -(240) -(240) -(240) -(240) -(240) -(240) -(240) -(340) -(350) -	<250 (<250) (250) (250) <a href="#sqs:150">(33.3)</a> <a href="#sqs:150">(33.3)</a> <a href="#sqs:150">(35.3)</a> <a href="#sqs:150">(33.3)</a> <a href="#sqs:150">(33.5)</a>	280 230 2450 2450 2450 2450 2450 2450 2450 245	0.250 [0.250]	9.90 (9.78) 1.54 1.86 -0.278 19.9 13.2 -(1.00 0.334 J 22.9 -(2.28 -0.278	19.7 [19.4] 19.7 [19.4] 4.52 4.52 4.52 4.53 1.81 7.86 4.100 1.11 1.16 2.26 4.100 1.17 4.13	\$7 [85.6] 1.89 ] 2.16 ] 2.16 ] 2.16 ] 4.0174 17.8 31.9 0.221 ] 3.19 0.221 ] 3.19 0.21 ] 3.10 0.114 3.10 0.114 3.10 0.114 3.10 0.114 3.100	-0.101 -0		-6.00 [-6.00]		
MW-10 MW-11	1211/5/021 2/15/020 2/15/020 6/7/020 6/7/020 6/7/020 1/5/020	56.17 56.17		8.02 7.44 7.60 9.70 9.12 8.02 8.02 8.02 8.03 8.04 9.03 9.05 9.05 11.68 10.34 9.83 10.34 9.83 10.35 10.	45.54 48.15 48.73 48.57 46.47 47.05 47.26 47.26 47.26 47.26 47.26 47.37 46.62 47.16 46.72 47.16 46.72 47.16 46.72 47.16 46.72 47.10 46.72 47.10 46.72 47.10 46.72 47.10 46.72 47.10 46.72 47.10 46.72 47.10 46.72 47.10 46.72 47.10 46.72 47.10		362 665 B 578.1 1700 1.760 1.7	171.1 241 246.7 381 355 350 300 300 300 300 300 300 300 300	790 600	<250 (<250) (250) (250) <a href="#sqs:150">(33.3)</a> <a href="#sqs:150">(33.3)</a> <a href="#sqs:150">(35.3)</a> <a href="#sqs:150">(33.3)</a> <a href="#sqs:150">(33.5)</a>	280 2450 2450 2450 2450 2450 2450 2450 245	0.250 [0.250]	9.90 (9.78) 1.54 1.86 -0.278 19.9 13.2 -(1.00 0.334 J 22.6 -(2.28 -(0.278 5.32 -(0.278 5.33 -(0.	197 [19.4] 19.7 [19.4] 2.16 4.52 -0.137 1.81 -7.86 -<1.00 -1.11 -1.56 -2.39 -0.137 -0.	\$7 [85.6] \$1.89 J \$2.16 J \$0.174 \$17.8 \$31.9 \$0.21 J \$1.00 \$17.5 \$31.9 \$0.21 J \$1.00 \$17.5 \$31.5 \$21.7 \$21.7 \$21.7 \$21.7 \$22.3 J \$31.5 \$21.7 \$22.3 J \$31.5 \$21.7 \$22.3 J \$31.5 \$21.7 \$33.0 \$33.0 \$33.0 \$33.0 \$33.0 \$33.0 \$33.0 \$34.5 \$35.7	-0.101 -0.101 -0.101 -0.101 -0.101 -1.00 -		-6.00 [-6.00]		
MW-10 MW-11	1211/s/0021 2/15/2002 2/15/2002 6/7/2002 6/7/2002 1/5/2002 1/5/2003 3/23/2003 1/211/2003 1/211/2004 1/21/2006 1/21/2006	56.17 56.25 56.32 56.32 56.32 56.32 56.32 56.32 56.32 56.32 56.32 56.32 56.32 56.32 56.32 56.32 56.32 56.32 56.32 56.33 56.33 56.33 56.33 56.33 56.33 56.33 56.33 56.33		8.02 7.44 7.60 9.70 9.12 8.91 10.84 9.04 10.85 9.61 11.68 11.68 9.83 10.31 10.31 10.31 10.31 10.35 10.35 10.35 10.35 10.31 10.31 10.35 10.	45.54 48.15 48.73 48.67 48.67 48.67 47.06 47.26 47.26 47.16 47.26 47.17 46.67 47.16 46.77 47.16 46.77 47.16 46.77 47.16 46.77 47.16 46.77 46.53 46.67 47.77 46.53		362 665 B 578 J 1,760 1,	171.1 241 246.7 381 355 350 300 300 300 300 300 300 300 300	790 600 600 600 600 600 600 600 600 600 6	<250 (<250) (250) (250) <a href="#sqs:150">(33.3)</a> <a href="#sqs:150">(33.3)</a> <a href="#sqs:150">(35.3)</a> <a href="#sqs:150">(33.3)</a> <a href="#sqs:150">(33.5)</a>	280 259 259 259 259 2450 2450 2450 2450 2450 2450 2450 2450	0.250 [0.250]	9.90 (9.78) 1.54 1.86 -0.278 19.9 13.2 -(1.00 0.334 J 22.9 -(2.28 -0.278	197 [19.4] 2.16 4.52 -0.1377 1.81 -1.81 -7.86 -1.00 -1.10 -1.15 -1	\$7 [85.6] \$1.89 J \$2.16 J \$-0.174 \$17.8 \$13 J \$1.9 \$0.221 J \$1.9 \$0.174	-0.101 -0.101 -0.101 -0.101 -0.101 -0.101 -0.101 -0.100 -1.100 -1.100 -1.100 -1.100 -1.100 -0.101 -0		-6.00 [-6.00]		
MW-10 MW-11	1211/s/0021 2/15/2002 2/15/2002 6/7/2002 6/7/2002 6/7/2002 1/5/2002 1/5/2003 3/23/2003 1/211/2003 1/211/2004 1/21/2005 1/21/2006 1/25/2006	56.17 56.20 56.32		8.02 7.44 7.60 9.70 9.12 8.91 8.82 10.84 9.04 9.85 9.05 11.68 11.6	45.54 48.15 48.73 48.67 48.67 48.67 48.67 47.05 47.25 47.15 47.15 46.67 47.16 46.67		362 665 B 578 J 1,760 1,	171 J 241 466.7 381 385 355 400 400 400 400 400 400 400 400 400 4	790 600	<250 (<250) (<250) <83.3 <83.3 <83.3 <83.3 <35.3 <185.0 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 </td <td>280 2450 2450 2450 2450 2450 2450 2450 245</td> <td>0.250 [0.250]</td> <td>9.90 (9.78) 1.54 1.86 -0.278 19.9 13.2 -(1.00 0.334 J 22.9 -(2.28 -0.278</td> <td>197 [19.4] 19.7 [19.4] 2.16 4.52 -0.137 1.81 -7.86 -&lt;1.00 -1.11 -1.56 -2.39 -0.137 -0.</td> <td>\$7 [85.6] \$1.89 J \$2.16 J \$0.174 \$17.8 \$31.9 \$0.21 J \$1.00 \$17.5 \$31.9 \$0.21 J \$1.00 \$17.5 \$31.5 \$21.7 \$21.7 \$21.7 \$21.7 \$22.3 J \$31.5 \$21.7 \$22.3 J \$31.5 \$21.7 \$22.3 J \$31.5 \$21.7 \$33.0 \$33.0 \$33.0 \$33.0 \$33.0 \$33.0 \$33.0 \$34.5 \$35.7</td> <td>-0.101 -0.101 -0.101 -0.101 -0.101 -1.00 -</td> <td></td> <td>-6.00 [-6.00]</td> <td></td> <td></td>	280 2450 2450 2450 2450 2450 2450 2450 245	0.250 [0.250]	9.90 (9.78) 1.54 1.86 -0.278 19.9 13.2 -(1.00 0.334 J 22.9 -(2.28 -0.278	197 [19.4] 19.7 [19.4] 2.16 4.52 -0.137 1.81 -7.86 -<1.00 -1.11 -1.56 -2.39 -0.137 -0.	\$7 [85.6] \$1.89 J \$2.16 J \$0.174 \$17.8 \$31.9 \$0.21 J \$1.00 \$17.5 \$31.9 \$0.21 J \$1.00 \$17.5 \$31.5 \$21.7 \$21.7 \$21.7 \$21.7 \$22.3 J \$31.5 \$21.7 \$22.3 J \$31.5 \$21.7 \$22.3 J \$31.5 \$21.7 \$33.0 \$33.0 \$33.0 \$33.0 \$33.0 \$33.0 \$33.0 \$34.5 \$35.7	-0.101 -0.101 -0.101 -0.101 -0.101 -1.00 -		-6.00 [-6.00]		
MW-10 MW-11	1211/5/021 2/15/202 2/15/202 2/15/202 6/7/202	\$6.17 \$6.17		8.02 7.44 7.60 9.70 9.12 8.02 8.02 8.03 8.04 9.03 8.04 9.03 9.03 9.45 11.68 10.34 9.83 10.34 9.83 10.35 10.3	45.54 48.15 48.73 48.57 46.47 47.05 47.26 47.26 47.26 47.26 47.26 47.37 45.33 45.33 45.62 47.14 46.72 47.14 46.72 47.14 46.72 47.14 46.72 47.14 46.72 47.14 46.72 47.14 46.73 46.83 46.47 47.47 48.43 48.43 48.43 48.43 48.43		362 665 B 578 J 1700 1.760 1.760 1.760 1.760 1.760 1.760 1.760 1.760 1.760 1.760 1.760 1.760 1.760 1.760 1.760 1.760 1.760 1.760 1.770 1.7	171.1 241 246.7 381 385 355 300 300 300 300 300 300 300 300 30	790 600 600 600 600 600 600 600 600 600 6	<250 (<250) <83.3 <83.3 <83.3 <83.3 <38.3 <250 <250 <250 <250 <35.3 <35.3 <35.3 <35.3 <35.3 <35.3 <35.3 <35.3 <35.3 <35.3 <35.3 <35.3 <35.3 <35.3 <35.3 <35.3 <35.3 <35.3 <35.3 <35.3 <35.3 <35.3 <35.3 <35.3 <35.3 <35.3 <35.3 <35.3 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0	280 259 259 259 259 2450 2450 2450 2450 2450 2450 2450 2450	0.250 [0.250]	9.90 (9.78) 1.54 1.86 -0.278 19.9 13.2 -(1.00 0.334 J 22.9 -(2.28 -0.278	197 [19.4] 2.16 4.52 -0.1377 1.81 -1.81 -7.86 -1.00 -1.10 -1.15 -1	\$7 [85.6] \$1.89 J \$2.16 J \$-0.174 \$17.8 \$13 J \$1.9 \$0.221 J \$1.9 \$0.174	-0.101 -0.101 -0.101 -0.101 -0.101 -0.101 -0.101 -0.100 -1.100 -1.100 -1.100 -1.100 -1.100 -0.101 -0		-6.00 [-6.00]		
MW-10 MW-11	1211/s/0021 2/15/2002 2/15/2002 6/7/2002 6/7/2002 6/7/2002 1/5/2002 1/5/2003 3/23/2003 1/211/2003 1/211/2004 1/21/2005 1/21/2006 1/25/2006	\$6.17 \$6.17		8.02 7.44 7.60 9.70 9.12 8.91 8.92 8.93 9.94 9.95 9.94 9.95 10.34 9.83 10.34 9.83 10.35 9.61 10.38 10.	45.54 48.15 48.73 48.67 48.67 48.67 48.67 47.05 47.25 47.15 47.15 46.67 47.16 46.67		362 5665 B 578.1 1,760 1	171 J 241 466.7 381 385 355 400 400 400 400 400 400 400 400 400 4	790 600 600 600 600 600 600 600 600 600 6	<250 (<250) (<250) <83.3 <83.3 <83.3 <83.3 <35.3 <185.0 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 <250 </td <td>280 259 259 259 259 2450 2450 2450 2450 2450 2450 2450 2450</td> <td>0.250 [0.250]</td> <td>9.90 (9.78) 1.54 1.86 -0.278 19.9 13.2 -(1.00 0.334 J 22.9 -(2.28 -0.278</td> <td>197 [19.4] 2.16 4.52 -0.1377 1.81 -1.81 -7.86 -1.00 -1.10 -1.15 -1</td> <td>\$7 [85.6] \$1.89 J \$2.16 J \$-0.174 \$17.8 \$13 J \$1.9 \$0.221 J \$1.9 \$0.174</td> <td>-0.101 -0.101 -0.101 -0.101 -0.101 -0.101 -0.101 -0.100 -1.100 -1.100 -1.100 -1.100 -1.100 -0.101 -0</td> <td></td> <td>-6.00 [-6.00]</td> <td></td> <td></td>	280 259 259 259 259 2450 2450 2450 2450 2450 2450 2450 2450	0.250 [0.250]	9.90 (9.78) 1.54 1.86 -0.278 19.9 13.2 -(1.00 0.334 J 22.9 -(2.28 -0.278	197 [19.4] 2.16 4.52 -0.1377 1.81 -1.81 -7.86 -1.00 -1.10 -1.15 -1	\$7 [85.6] \$1.89 J \$2.16 J \$-0.174 \$17.8 \$13 J \$1.9 \$0.221 J \$1.9 \$0.174	-0.101 -0.101 -0.101 -0.101 -0.101 -0.101 -0.101 -0.100 -1.100 -1.100 -1.100 -1.100 -1.100 -0.101 -0		-6.00 [-6.00]		
MW-10 MW-11	12/15/2021 2/15/2022 2/15/2022 2/15/2022 2/15/2022 1/5/2023 3/23/2023 1/5/2023 3/23/2023 1/5/2023 1/5/2023 1/5/2023 1/5/2024 1/5/	\$6.17 \$6.17		8.02 7.44 7.60 9.70 9.12 8.91 8.82 10.84 9.04 9.55 9.03 11.68 10.35 9.61 11.68 9.83 10.31 10.31 10.35	45.54 48.15 48.73 48.67 48.67 48.67 47.06 47.26 47.13 47.14 46.72 47.14 46.72 47.14 46.72 47.14 46.72 47.14 46.72 47.14 46.73 47.14 46.73 46.74 46.74 46.75 46.84 46.87 46.85 46.87 46.87 46.81 46.81 46.81 46.81 46.83 46.83 46.83 46.83 46.83 46.83 46.83 47.89 48.83		362 665 B 578 J 1700 1,760 1,7	171 J 241 466.7 281 381 385 385 400 400 400 400 404 404 405 405 406 407 407 407 407 407 407 407 407 407 407	790 600 600 600 600 600 600 600 600 600 6	<250 (<250) (<250) <83.3 <83.3 <83.3 <83.3 <35.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <25.0 <2	280 259 259 259 259 2450 2450 2450 2450 2450 2450 2450 2450	0.250 [0.250]	9.90 (9.78) 1.54 1.86 -0.278 19.9 13.2 -(1.00 0.334 J 22.9 -(2.28 -0.278	197 [19.4] 2.16 4.52 -0.1377 1.81 -1.81 -7.86 -1.00 -1.10 -1.15 -1	\$7 [85.6] \$1.89 J \$2.16 J \$-0.174 \$17.8 \$13 J \$1.9 \$0.221 J \$1.9 \$0.174	-0.101 -0.101 -0.101 -0.101 -0.101 -0.101 -0.101 -0.100 -1.100 -1.100 -1.100 -1.100 -1.100 -0.101 -0		-6.00 [-6.00]		
MW-10 MW-11	1211/5/021 2/15/202 2/15/202 2/15/202 6/7/202 6/7/202 6/7/202 15/5/203 3/22/203 15/5/203 3/22/203 15/5/203 3/22/203 12/12/204 9/17/204 9/1	\$6.17 \$6.17		8.02 7.44 7.60 9.70 9.12 9.70 9.12 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05	45.54 48.15 48.73 48.73 46.47 47.05 47.73 47.73 47.73 47.73 47.74		362 665 B 578 J 1700 1,760 1,7	171.1 241 246.7 381 385 355 300 300 300 300 300 300 300 300 30	790 600 (-239) -240(-239) -240(-239) -250(-239) -250(-239) -250(-239) -250(-239) -350(-2	<250 (~250) <83.3 <83.3 <83.3 <83.3 <35.0 <250 <250 <250 <35.3 <35.3 <35.3 <35.3 <35.3 <35.3 <35.3 <35.3 <35.3 <35.3 <35.3 <35.3 <35.3 <35.3 <35.3 <35.3 <35.3 <35.3 <35.3 <35.3 <35.3 <35.3 <35.3 <35.3 <35.3 <35.3 <35.3 <35.3 <35.3 <35.3 <35.3 <35.3 <36.5 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <36.0 <p< td=""><td>280 230 230 230 230 250 250 250 250 250 250 250 250 250 25</td><td>0.250 [0.250]</td><td>9.90 (9.78) 1.54 1.86 -0.278 19.9 13.2 -(1.00 0.334 J 22.9 -(2.28 -0.278</td><td>19.7 [19.4] 19.7 [19.4] 4.52 4.52 4.52 4.53 1.81 7.86 4.100 1.11 1.26 2.26 4.100 1.11 1.26 2.26 4.100 1.11 1.26 2.26 4.100 1.11 1.26 2.26 2.20 2.37 2.37 2.37 2.37 2.37 2.37 2.37 2.37</td><td>\$7 [85.6] 1.89 J 2.16 J 2.16 J 2.16 J 2.17 J 17.8 31.9 0.221 J 2.30 0 17.5 3.19 0.221 J 2.30 0 17.5 3.17 0.174 3.30 0 2.3</td><td>-0.101 -0</td><td></td><td>-6.00 [-6.00]</td><td></td><td></td></p<>	280 230 230 230 230 250 250 250 250 250 250 250 250 250 25	0.250 [0.250]	9.90 (9.78) 1.54 1.86 -0.278 19.9 13.2 -(1.00 0.334 J 22.9 -(2.28 -0.278	19.7 [19.4] 19.7 [19.4] 4.52 4.52 4.52 4.53 1.81 7.86 4.100 1.11 1.26 2.26 4.100 1.11 1.26 2.26 4.100 1.11 1.26 2.26 4.100 1.11 1.26 2.26 2.20 2.37 2.37 2.37 2.37 2.37 2.37 2.37 2.37	\$7 [85.6] 1.89 J 2.16 J 2.16 J 2.16 J 2.17 J 17.8 31.9 0.221 J 2.30 0 17.5 3.19 0.221 J 2.30 0 17.5 3.17 0.174 3.30 0 2.3	-0.101 -0		-6.00 [-6.00]		
MW-10 MW-11	121/15/001 2/15/202 2/15/202 2/15/202 2/15/202 2/15/202 1/5/202	56.17 56.17		8.02 7.44 7.60 9.70 9.12 8.02 8.03 9.70 9.12 8.04 9.70 9.15 10.44 9.85 10.44 9.85 10.45 9.61 10.45 9.61 10.38 10.3	4584 4815 4873 4647 4647 4647 4726 4726 4726 4726 4726		362 665 B 578 J 1,760 1,	171.1 241 246.7 381 385 355 300 300 300 300 300 300 300 300 30	790 600 600 600 600 600 600 600 600 600 6	<250 (-250) (-250) <33.3 <33.3 <33.3 <35.3 <35.3 <250 <250 <250 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.3 <38.2 <38.2 <38.2 <38.2 <38.2 <38.2 <38.2 <38.2 <38.2 <38.2 <38.2 <38.2 <38.2 <38.2 <38.2 <38.2 <38.2 <38.2 <38.2 <38.2 <38.2 <38.2 <38.2 <38.2 <38.2 <38.2 <38.2 <38.2 <38.2 <38.2 <38.2 <38.2 <38.2 <38.2 <38.2 <38.2 <38.2 <38.2 <38.2 <38.2 <38.2 <38.2 <38.2 <38.2 <38.2 <38.2 <38.2 <38.2 <38.2 <38.2 <38.2 <38.2 <38.2 <38.2 <38.2 <38.2 <38.2 <38.2 <38.2 <38.2 <38.2 <38.2 <38.2 <38.2 <38.2 <38.2 <38.2 <38.2 <38.2 <	280 259 259 259 259 2450 2450 2450 2450 2450 2450 2450 2450	0.250 [0.250]	9.90 (9.78) 1.54 1.86 -0.278 19.9 13.2 -(1.00 0.334 J 22.9 -(2.28 -0.278	197 [19.4] 2.16 4.52 -0.1377 1.81 -1.81 -7.86 -1.00 -1.10 -1.15 -1	\$7 [85.6] \$1.89 J \$2.16 J \$-0.174 \$17.8 \$13 J \$1.9 \$0.221 J \$1.9 \$0.174	-0.101 -0.101 -0.101 -0.101 -0.101 -0.101 -0.101 -0.100 -1.100 -1.100 -1.100 -1.100 -1.100 -0.101 -0		-6.00 [-6.00]		
MW-10 MW-11	12/15/2021 2/15/2022 2/15/2022 2/15/2022 2/15/2022 1/5/2023 3/23/2023 1/5/2023	\$6.17 \$6.17		8.02 7.44 7.60 9.70 9.12 9.70 9.12 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05	45.54 48.15 48.73 48.73 46.47 47.05 47.73 47.73 47.73 47.73 47.74		362 665 B 578 J 1700 1,760 1,7	171.1 241 246.7 381 385 355 360 300 300 300 300 300 300 300 300 300	790 600 (-239) -240(-239) -240(-239) -250(-239) -250(-239) -250(-239) -250(-239) -350(-2	<250 (-250)	280 230 230 230 230 250 250 250 250 250 250 250 250 250 25	0.250 [0.250]	9.90 (9.78) 1.54 1.86 -0.278 19.9 11.2 -1.00 3.34 J 2.2.3 -1.2.3 -1.2.3 -1.2.3 -1.2.3 -1.2.3 -1.2.3 -1.2.3 -1.2.3 -1.3.3	19.7 [19.4] 19.7 [19.4] 4.52 4.52 4.52 4.53 1.81 7.86 4.100 1.11 1.26 2.26 4.100 1.11 1.26 2.26 4.100 1.11 1.26 2.26 4.100 1.11 1.26 2.26 2.20 2.37 2.37 2.37 2.37 2.37 2.37 2.37 2.37	\$7 [85.6] 1.89 J 2.16 J 2.16 J 2.16 J 2.17 J 17.8 31.9 0.221 J 2.30 0 17.5 3.19 0.221 J 2.30 0 17.5 3.17 0.174 3.30 0 2.3	-0.101 -0		-6.00 [-6.00]		

Table 1 Historical Groundwater Gauging Data and Select Analytical Results Former Chevron Service Station 97502 640 Metcalf Street, Sedro-Woolley, Washington

MW-12 1/19/2007 56.79 - 9.72 47.07 - 2.200 - 6.800 1.500 1.500 1.500 1.500 1.500 1.500 1.500 1.500 1.500 1.500 1.500 1.500 1.500 1.500 1.500 1.500 1.500 1.500											640 Me	tcalf Street, Sedro-Wo	oolley, Washington								
West   1985	Well	Date					Thickness		DRO (μg/L)	DRO w/ Silica Gel (µg/L)						Total Xylenes (μg/L)					Comments
March   Marc			M	TCA Method	A CULs		(11)	800/1,000	500		500	500	5	1000	700		20	15	15	0.01	
Value   1975				-			-				-		-	-		-	-	-	-	-	
Column   C					8.72		-		200	75	<60	<69	2	2 8			-	-	-	-	
Column   C	MW-11	12/7/2010	56.32	-	10.38	45.94	-	2,500		130		<70	3	7	120	270	-	-	-		
Color   Colo	MW-11		56.32	-	7.91	48.41	-	1,300		61	-	<69	0.9	3			-		-		
Column   C	MW-11			-				1,400		67,000		<6,800*	2	5			-		-	-	<b> </b>
100   100		12/13/2011	56.32	-	9.75	46.57	-		-	49	-	<68	3	5			-	-	-	-	
Color   Colo		12/19/2011			9.62		-	-			-	-	-	-		-	-	-	-		
1906   1907   1908   1909				-			-			<30	-		3	3			-	-	-	-	1
Mary				-			-		-	<300	-		<5	<5			-	-	-	-	
March   Marc	MW-11			-	8.40	47.92	-				-	<68	6	6			-	-	-		
Color   Colo	MW-11	3/11/2013	56.32		7.56	48.76	-	3,200		88		<70	7	9	150	190	-		-		<b>+</b>
March   Marc	MW-11			-			-	4,000		-		-					-	-	-	-	
March   Marc	MW-11	12/11/2013	56.32	-	9.04		-	2,700	100	1	<67	-	4	7		210	-	-	-	-	
The color   The							-			-	-	-					-		-		<del> </del>
March   1985				-			-		724	-	<83.3	-					-	<2.95	-	-	
March   1988   1989			57.20	-				4,190	543			-							<6.00		
Section   Control   Cont			57.20	-	8.15					-	<83.3	-						<2.99	-		1
Part   Property   Pr	MW-11		57.20 57.20	-	7.51	49.69	-	228 315 B	97.93 <66.7	-	<83.3 <83.3	-	1.30	0.339 J 0.299 I	< 0.137	0.234 J <0.174	<0.101	<0.849	-	-	
Color   Colo	MW-11	9/28/2022	57.20	_	9.82	47.38		3,580 [3,340]	348 [320 ]	-[-]	<250 [<250]	[]	2.08 [2.17]	1.13 [1.17]	6.22 [6.16]	2.88 J [2.57 J]	<1.00 [<1.00]	<2.00 [<2.00]	-[-]	- []	
Column   C	MW-11	1/5/2023	57.20	-	8.73	48.47	-	3,510 [3,550]	378 [383]	-[-]	<250 [<250]	[]	0.995 J [1.05]	0.939 J [ 0.943 J]	22.0 [23.6]	2.44 J [ 2.31 J]	<1.00 [<1.00]	<2.00 [<2.00]	[]	[]	
The color				-			-			-	<250	-							-	-	
March   1986   1986   1	MW-11	9/12/2023	57.20	_	10.84	46.36		8,700 [6,290]	711 [645]	-[-]	<83.3 [<83.3]	[]	1.31 [1.29]	2.85 [3.00]	104 [99.8]	0.195 J [3.81]	<0.101 [<0.101]	<0.849 [1.70 B J]	-[-]	- []	
March   150   15				-			-	5,940	918	-		-							-	-	
March   1926	MW-11 MW-11		57.20 57.20	-				3,490 234	970 105 I	-	<83.3 <83.3	-		<2.78 <0.278	38.8 <0,137	9.50 J <0.174			-	-	
1982   1.00	MW-11		57.20		9.82	47.38			737	-	<83.3		1.59	1.13	5.92	2.17 J	<0.101	<0.849	_	_	
March   1930   1-2   1-2   1-3   1		0.000																	2.0		
March   Color   Colo	MW-12 MW-12	8/10/2006 12/5/2006		-	9.23	-	-	89,000	62,000	-	<21,000	-	16	230	990 280	4,400		4.3	164 20 R	-	
1992   1992   1992   1993   1994   1995	MW-12			-		-	-	9,500	1,600	-		-		34		1,140			65	-	
Marco   1930    1930			-			_						-						2		-	
March   1998							-		330,017	2 900	<100	<110									
March   Marc	MW-12	9/3/2007	30.79	-	10.18	40.01	-	3,100		2,700	-	~110	-0.5		31	33	~0.5	-	2.5	~0.5	In analyzing DRO w/ silica gel, the
More	MW-12	12/19/2007	56.79	-	9.72	47.07	-	2,200		6,800	-	<490	<0.5	0.5	24	19	<0.5	-	13.4	<0.5*	observed sample pattern includes #2 fuel/diesel and an additional pattern that
Wiley   1915								7,100		1,500	-	<100	12	250	180	1,100	<0.5		-		In analyzing DRO w/ silica gel, the observed sample pattern is not typical of #2 fitel/diesel.
No. 12   195900   1959							0.05	-		-	-	-	-	-	-	-	-		-		
No. 12   19.500   19.50   17.50   17.50   17.50   19		11/20/2008		8.15	8.27	48.62	0.12	-		-	-	-		-		-	-	-	-		
Mile   2000   50   50   50   50   50   50	MW-12	3/4/2009	56.79	7.52	7.56	49.26	0.04	-		1	-	-	-	-		-	-	-	-		
Min		6/4/2009	56.79		7.80	49.04	0.06	-		-	-	-	-	-	-	-	-		-		
Min				9.31	12.68		0.70	980,000	460,000	-	530,000	-		-		-	-		-	-	
MANIE   195300   5.79   -   10.07   6.52   -   3.70   3.90   3.90   -   1.600   -   -   -   -   -   -   -   -   -				-								-		-		-	-		-	-	
Marcia   1975/200   5.5   -   10.0   10.1   -   1.00   1.00   1.00   -   1.00   1.00   -   -   -   -   -   -   -   -   -				-	10.23							-		-		-	-		-	-	t
No. 12   1193.000   15.50   -   16.0   16.0   1.50   -   1.500   -     1.500   -     1.500   -     1.500   -     1.500   -     1.500   -       1.500   -     1.500   -     1.500   -     1.500   -     1.500   -     1.500   -     1.500   -     1.500   -     1.500   -       1.500   -     1.500   -     1.500   -     1.500   -     1.500   -     1.500   -     1.500   -     1.500   -     1.500   -       1.500   -     1.500   -     1.500   -     1.500   -     1.500   -     1.500   -     1.500   -     1.500   -     1.500   -       1.500   -     1.500   -     1.500   -     1.500   -     1.500   -     1.500   -     1.500   -     1.500   -     1.500   -       1.500   -       1.500   -     1.500   -     1.500   -     1.500   -     1.500   -     1.500   -     1.500   -     1.500   -     1.500   -       1.500   -     1.500   -     1.500   -     1.500   -     1.500   -     1.500   -     1.500   -     1.500   -     1.500   -       1.500   -		10/15/2009	56.79	-	10.60	46.19	-			-		-	-	-	-	-	-	-	-		
March   193000   1879     180   179     180   179     180   179     180   180     180   180     180   180     180   180     180   180     180   180     180	MW-12	10/22/2009	56.79	-	10.45	46.34	-	4,900	810 J	1	2,800	-	-	-		-	-	-	-		
Marker   1970	MW-12	11/18/2009	56.79		9.66	47.13	-	3,200	1,400 J	7.00	1,800 J		-100	-		200			-	-104	
No.	MW-12 MW-12	12/16/2009	56.79	-		47.99	-	4,500	2,200	-	4,300	-	~10·	-	33	200	- 10	-	-		
MVL1 212000 5.79 - 9.00 47.79 - 5.00 - 9.00				-	8.93	47.86		9,900	-	15,000	-	<1,800°	-	-		-	-	-	-	-	
MW-12   618/2010   56/79   -   8.79   64.60   -   6.900   -     4.460   -     -   -   -     -     -	MW-12	2/12/2010	56.79	-	9.00	47.79	-	5,100		5,000	-	450	-	-	-	-	-	-	-	-	In analyzing DRO w/ silica gel, the observed sample pattern is not typical of #2 fuel/diesel.
MW-12 9/2019 56.79 - 9.74 66.72 - 2.609 5.100 - 2.009 - 150 - 150 - 1 22 29				-							-		-	-	-	-	-	-	-	-	
MW-12 12/72010 56.79 9.54 47.05 \$.600 2.700 150 2.700 150 2.700 150 2.700 150 2.700 150 2.700 150 2.700 150 2.700 150 2.700 150 2.700 150 2.700 150 2.700 150 2.700 150 2.700 150 2.700 2.				-			-			4,600		<360					-	-	-	-	
MW-12 975011 56.79 - 7.31 40.26 - 110 - 2.390 - 270 - 6.5 40.5 40.5 40.5		12/7/2010	56.79		9.74		-		5,100	2,700	~350 	150	<0.5	0.9	28		_	-	-	-	
MW-12 916/2011 56.79 - 8.83 48.26 - 3.160 - 1.300 - 488 4.55 15 10 16	MW-12	3/7/2011	56.79	-	7.53	49.26				2,200	-	270	<0.5			3	-		-	-	
MW-12   121/12011   56,79     8,86   47,81     3300	MW-12		56.79	-	7.14	49.65	-	7.100		1 200	-		-0.6	-			-		-	-	
MW-12   12   19   19   19   19   19   19	MW-12 MW-12	9/16/2011	56.79 56.79	-	9.05	48.26 47.74	-	3,100	-	1,300 330	-		<0.5	<0.5			-	-	-	-	
MW-12   MY-5012   56.79     7.0   47.02	MW-12	12/19/2011	56.79	-	8.96	47.83	-		-	_	-	-					-	-	-	-	
MW-12 9102012 56.79 - 8.8.5 86.44 - 3.200 - 5.800 - 46.8 40.5 40.5 9 4	MW-12	3/15/2012		-	9.77						-						-		-	-	
MW-12 12/09/012 55.79 - 7.84 84.95 - 150 - 81 - 49 45.5 0.5 0.5				-			-		-		-						-	-	-	-	
MW-12 M12013 56.79 - 7.13 49.66 - 159 - 120 - 466 40.5 40.5 40.5 40.5				-			-		-		-						-	-	-	-	
MW-12 9182013 56.79 - 8.88 48.11 - 1.50 1.50		3/11/2013	56.79	-	7.13	49.66		150		120	-	<66	<0.5	<0.5	<0.5	<0.5	-	-	-		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	MW-12	6/12/2013	56.79		7.32	49.47	-			-	<67	-	<0.5	< 0.5		<0.5	-	-	-		<del></del>
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	MW-12 MW-12	12/11/2013	56.79		8.24	48.55	-	97	1,500	-	<66	_	<0.5	<0.5		<0.5	-	-	-		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	MW-12	3/12/2014	56.79	_	7.72	49.07	-		280	-	<70	-	<0.5	< 0.5	< 0.5	<0.5	-	-	-	-	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		9/27/2014		-			-			-	-02.2	-					-	-	-2.05		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$				-			-			-		-					<1.00	-		-	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	MW-12			-	7.83		-	<31.6		-	101 J		< 0.0941		< 0.137					-	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$				-	7.56			72.4 B J		-	<83.3	-							-	-	
MW-12 16/2023 56:72 9.31 47:41 88:2 BJ 14:51 84:9.1 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <	MW-12	6/7/2022	56.72	-	7.66	49.06	-	54.6 B J	<66.7	-	243 J	-	<0.0941	<0.278	<0.137	<0.174	<0.101	<0.849	-		<del></del>
MW-12 3222023 56.72 8.85 47.87 <	MW-12 MW-12	1/6/2023	56.72	-	9.62	47.10	-	~100 88.2 B J	15/ J 145 J	-	203 J 84.9 J	-	<1.00 <1.00	<1.00 <1.00	<1.00 <1.00	<3.00	<1.00 <1.00	<2.00	-	-	
MW-12 620/2023 56.72 - 9.64 47.08 - 42.61 1031 - <250 - <1.00 <1.00 <1.00 1.003 <3.00 <1.00 1.261	MW-12	3/22/2023	56.72		8.85	47.87		<100 [<100]	77.1 J [<200]	-[-]	<250 [<250]	[-]	<1.00 [<1.00]	<1.00 [<1.00]	<1.00 [<1.00]	<3.00 [<3.00]	<1.00 [<1.00]	<2.00 [<2.00]	[]	- []	
MW-12 9122023 56.72 10.74 45.98 214 120.1 <83.3 <0.0941 <0.278 <0.137 <0.174 <0.101 1.28 BJ		6/20/2023		-	9.64			42.6 J	103 J	-	<250	-	<1.00	<1.00	<1.00 J3	<3.00	<1.00	1.26 J	-	-	
	MW-12	9/12/2023	56.72	-	10.74	45.98	-	214	120 J	-	<83.3	-	< 0.0941	< 0.278	< 0.137	<0.174	< 0.101	1.28 B J	-		

Table 1
Historical Groundwater Gauging Data and Select Analytical Results
Former Chevron Service Station 97502
640 Metcalf Street, Sedro-Woolley, Washington

										040 1410	tcalf Street, Sedro-We	ooney, washington								
Well	Date	TOC (ft NAVD 88)	DTP (ft)	DTW (ft)	GWE (ft NAVD 88)	NAPL Thickness (ft)	GRO (µg/L)	DRO (μg/L)	DRO w/ Silica Gel (µg/L)	HRO (µg/L)	HRO w/ Silica Gel (μg/L)	Benzene (µg/L)	Toluene (μg/L)	Ethylbenzene (μg/L)	Total Xylenes (μg/L)	MTBE (μg/L)	Dissolved Lead (µg/L)	Total Lead (μg/L)	EDB (μg/L)	Comments
MW-12 MW-12	12/14/2023 2/21/2024	56.72 56.72	TCA Method	10.14 9.32	46.58 47.40		800/1,000 274 B [58.2 B J] 131 B J3	500 613 [80.5 J] 138 J	500 []	500 <83.3 [88.4 J] <83.3	500 [-]	5 <0.0941 [<0.0941 ]	1000 <0.278 [<0.278 ] <0.278	700 <0.137 [<0.137] <0.137	1000 <0.174 [<0.174 ] <0.174	20 <0.101 [<0.101 ] <0.101	15 <0.849 [<0.849] <0.849	15 []	0.01 []	
MW-12	6/11/2024	56.72	-	9.79	46.93	-	71.7 B J	<66.7	-	<83.3	-	<0.0941 <0.0941 <0.0941	< 0.278	< 0.137	< 0.174	< 0.101	<0.849 <0.849 <0.849	-	-	
MW-12	9/17/2024	56.72	-	9.49	47.23	-	61.5 B J	164 J		<83.3 <2,200	-		<0.278	<0.137	<0.174	<0.101		-	-	
MW-13 MW-13	8/10/2006 12/5/2006	-	-	9.68	-	-	15,000 5,000	5,300 1,700	-	270	-	5 0.99 J	47 33	260 110	1,400 590	<1 <1.0	4.3 1.5 BJ	29.6 17 B	-	
MW-13 MW-13	1/24/2007 5/8/2007		-	8.93 9.17	-		2,300	190	-	<260	-	1.5	21	41	242	<1.0	<2.0	22	-	
MW-13 MW-13	6/4/2007 9/5/2007	56.71 56.71	11.15 11.70	13.00 11.96	45.19 44.96	1.85 0.26	-	-	-	-	-	-	-		-	-	-	-	-	
MW-13 MW-13	12/19/2007 3/6/2008	56.71 56.71	10.51 9.05	10.83 9.37	46.14 47.60	0.32 0.32	-	-	-	-	-	-	-	-	-	-		-	-	
MW-13 MW-13	6/16/2008 9/11/2008	56.71 56.71	8.25 8.64	8.49 8.83	48.41 48.03	0.24 0.19	-		-	-	-				-	-		-	-	
MW-13 MW-13	11/20/2008 3/4/2009	56.71 56.71	8.77 7.68	8.94 7.73	47.91 49.02	0.17 0.05	-		-	-	-	-			-	-	-	-	-	
MW-13 MW-13	6/4/2009 9/22/2009	56.71 56.71	7.94 9.86	7.99 9.89	48.76 46.84	0.05	-	-		-	-	-	-	-	-	-	-	-	-	
MW-13 MW-13	9/23/2009	56.71 56.71	-	12.98 12.12	43.73 44.59		96,000 13,000	31,000 3,300	-	49,000 J <1,400*	-	-	-	-	-	-	-	-	-	
MW-13	10/1/2009	56.71	12.59	12.60	44.12	0.01	9,700	8,000	-	500 J	-		-	-	_	-	-	-		
MW-13 MW-13	10/8/2009 10/15/2009	56.71 56.71	12.70	12.46 12.71	44.25 44.01	0.01	8,000 8,400	760 930	-	350 <68	-		-		-	-		-		
MW-13 MW-13	10/22/2009 11/18/2009	56.71 56.71	-	12.50 10.73	44.21 45.98	-	6,500 8,900	760 1,400	-	<68 370	-		-	-	-	-	-	_	_	
MW-13 MW-13	12/3/2009 12/16/2009	56.71 56.71	_	9.68	47.03	-	11,000 8,700	1,400	5,600	 <66	<680	8	30	300	1,400	<0.5		-	<0.5*	
MW-13 MW-13	1/27/2010 2/12/2010	56.71 56.71	-	9.45 9.55	47.26 47.16	-	16,000 11,000	-	3,700 1,700	-	670 <71	-	-		-	-		-	-	
MW-13 MW-13	3/30/2010 6/18/2010	56.71 56.71	-	9.24 9.00	47.47 47.71		15,000 10,000	-	9,300 3,900	-	<700° <350	5	23	360	1,300	-		-	-	
MW-13 MW-13	9/2/2010 12/7/2010	56.71 56.71		10.56 10.46	46.15 46.25	-	11,000 9,100	3,300	770	<350	<71	5	23 20	280 200	1,100 1,100	-	-	-	-	
MW-13 MW-13	3/7/2010 3/7/2011 6/9/2011	56.71 56.71	-	7.68 7.20	49.03 49.51	-	4,200	-	<30 160	-	<70 <69	<0.5 <0.5	<0.5	200 2 10	9	-	-	-	-	
MW-13	9/16/2011	56.71	-	9.05	47.66	-	1,800 6,400	-	3,000	-	<140	3	7	160	590	-	-	-	-	
MW-13 MW-13	12/13/2011 12/19/2011	56.71 56.71	-	9.60 9.60	47.11 47.11	-	7,600	-	3,600	-	<350	⊲ -	- 11	190	810	-	-	-	-	
MW-13 MW-13	3/15/2012 6/13/2012	56.71 56.71	-	9.25 7.60	47.46 49.11	-	<50 <50	-	<30 <31	-	<70 <72	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	-		-	-	
MW-13 MW-13	9/10/2012 12/10/2012	56.71 56.71	-	9.38 8.28	47.33 48.43		6,000 3,000		660 750	-	<68 <69	থ থ	7 <5	140 55	620 310	-	-	-	-	
MW-13 MW-13	3/11/2013 6/12/2013	56.71 56.71	-	7.42 7.63	49.29 49.08	-	1,300	<29	490	<67	<71	<0.5 <0.5	0.8	18	91 100	-	-	-	-	
MW-13 MW-13	9/18/2013	56.71 56.71	-	9.42 8.78	47.29 47.93		5,500	500	-	<67 <67	-	0.6	7	23 170 170	670 710	-	**	-	-	
MW-13	3/12/2014	56.71	-	7.14	49.57	Sheen	4,500 <50	35	-	<67	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	
MW-13 MW-13	9/27/2014 8/17/2020	56.71 56.71	-	9.47 9.41 10.73	47.24 47.30	-	<50 2,290 [2,450]	<29 731 [516]	-	<83.3 [<83.3]	-	<0.5 <0.0941 [<0.0941]	<0.5 0.580 J [0.535 J]	<0.5 20.1 [21.2]	<0.5 39.4 [39.7]	-	-	<2.95 [<2.95]	-	
MW-13 MW-13	9/28/2021 12/15/2021	56.67 56.67	-	7.89	45.94 48.78	-	4,940 [4,530] <31.6 [<31.6]	730 [752] 76.8 J [70.0 J]	-	<250 [<250] 84.9 J [<83.3]	-	0.147 J [0.194 J] <0.0941 [<0.0941]	1.61 [1.56] <0.278 [<0.278]	76.3 [73.4] <0.137 [<0.137]	108 [122] <0.174 [<0.174]	<1.00 <0.101 [<0.101]	<2.99 [<2.99]	-[-]	-	Slight odor on probe
MW-13 MW-13	2/16/2022 6/7/2022	56.67 56.67	-	7.69 7.75	48.98 48.92	-	65.5 B J 57.0 B J	<66.7 <66.7	-	131 J 279	-	<0.0941 <0.0941	<0.278 <0.278	<0.137 <0.137	<0.174 <0.174	<0.101 <0.101	<0.849 <0.849	-	-	
MW-13 MW-13	9/28/2022 1/5/2023	56.67 56.67	-	9.86 9.39	46.81 47.28	-	3,710 2,040	713 711	-	<250 92.9 J	-	0.113 J 0.109 J	0.969 J 0.492 J	44.4 11.1	57.8 22.2	<1.00 <1.00	<2.00 <2.00	-	-	
MW-13 MW-13	3/23/2023 6/20/2023	56.67 56.67	-	8.94 9.46	47.73 47.21		1,330 1,290	584 739	-	<250 <250	-	0.125 J 0.117 J	0.506 J 0.378 J	7.44 13.1 J3	12.5 17.0	<1.00 <1.00	<2.00 1.53 J	-	-	
MW-13 MW-13	9/11/2023 12/13/2023	56.67 56.67	-	11.07 9.80	45.60 46.87	-	3,490 [4,480] 2,890	753 [767] 1,090	[]	<83.3 [<83.3] <83.3	[]	0.162 J [0.124 J] <0.0941	1.55 [1.59] 0.880 J	63.9 [63.4] 30.2	66.7 [64.3] 39.9	<0.101 [<0.101] <0.101	1.52 B J [5.34 B] <0.849	-[-]	- []	
MW-13 MW-13	2/20/2024	56.67 56.67	-	9.64 9.32	47.03 47.35	-	674 J3 <31.6	600 73.4 J	-	<83.3 <83.3	-	<0.0941 <0.0941	0.321 J <0.278	1.99	7.49 <0.174	<0.101	<0.849 <0.849	-	-	
MW-13	9/16/2024	56.67	-	9.83	46.84	-	1,120	735	-	<83.3	-	<0.0941	0.372 J	13.7	12.1	<0.101	<0.849	-	-	
MW-14	8/10/2006		-	10.14	-			-	-	 130 J	-	-	 560	690	-	- <10	 0.055 BJ		-	Well dry
MW-14 MW-14	12/5/2006 1/24/2007	-	-	9.27	-		19,000 32,000	1,500 2,300	-	130 J <260	-	31 29	1,200	1,000	3,300 5,500	<25	<2.0	8.1 B 26	-	
MW-14 MW-14	5/8/2007 6/4/2007	56.51	-	9.44 9.58	46.93	-	1,700 3,100	180 <79	-	<98	-	6.2 15	3.1 7	53 110	143 290	<2.0 <0.5	<2.0	13 2.8	<0.5*	
MW-14 MW-14	9/5/2007 12/19/2007	56.51 56.51	-	10.54 10.60	45.97 45.91	-	3,000 11,000	-	95 400	<100	 <500*	9 7	17 39	140 240	370 1,000	<0.5 <1	-	0.26 4.8	<0.5* <1*	
MW-14 MW-14	3/6/2008 6/16/2008	56.51 56.51	-	9.38 8.78	47.13 47.73	-	2,300 200	-	<160 <82	-	<200 <100	2 2	66 0.6	76 6	330 14	<0.5 <0.5		-	<0.5* <0.5*	
MW-14 MW-14	9/11/2008 11/20/2008	56.51 56.51	-	9.09 9.31	47.42 47.20		1,800 3,900	-	<79 120	-	<99	9	9	81 120	230 420	<0.5 <0.5		-	<0.5* <0.5*	
MW-14 MW-14	3/4/2009 6/4/2009	56.51 56.51	-	8.14 8.39	48.37 48.12	-	5,400	-	450 <300	-	<69 <700°	21	21	170 170	480 27	<1 <0.5	-	-	<1*	
MW-14 MW-14 MW-14	9/22/2009	56.51 56.51	-	8.39 10.23 10.30	48.12 46.28 46.21	-	7,300 9,500	210 560 J	~300 **	140 J <700°	×/00* 	3 	-			-0.5	-	=	<0.5*	
MW-14	9/24/2009	56.51	-	10.68	45.83	-	12,000	270	-	<67	-				-	-	-	-	-	
MW-14 MW-14	10/8/2009 10/15/2009	56.51 56.51	-	10.80 10.94	45.71 45.57		11,000 14,000	220 370	-	<67 <66	-	-	-		-	-	-	-	-	
MW-14 MW-14	10/22/2009 11/18/2009	56.51 56.51	-	10.94 10.39	45.57 46.12	-	15,000 19,000	260 660	-	<66 <130	-	-	-	-	-	-	-	-		·
MW-14 MW-14	12/3/2009 12/16/2009	56.51 56.51	-	9.61	46.90		22,000 20,000	690	620	 <66	<140	6	200	530	2,800	<0.5		-	<0.5*	
MW-14 MW-14	1/27/2010 2/12/2010	56.51 56.51	-	9.24 9.29	47.27 47.22		24,000 19,000		440 370	-	<69 <70		-		-	-		-		
MW-14 MW-14	3/30/2010 6/18/2010	56.51 56.51		9.21 8.90	47.30 47.61	-	14,000		300 160	-	<69 <69	-	- 83		680		-	-	-	
MW-14	9/2/2010	56.51 56.51	-	10.33 10.25	46.18	-	7,400	320	 270	<350	<73	1	67	250 320	1,100	-	-	-	-	
MW-14 MW-14	12/7/2010 3/7/2011	56.51	-	8.14	46.26 48.37	-	8,600 8,700	-	440	-	<72	0.7	95 53	77	1,600 1,100	-		-	-	
MW-14 MW-14	6/9/2011 9/16/2011	56.51 56.51	-	7.61 8.85	48.90 47.66	-	5,200 7,400	-	100 50	-	<67 <73	0.7 3	31 22	170 75	690 830	-	-		-	
MW-14	12/13/2011	56.51	-	9.45	47.06	-	8,600	-	120	-	<68	<3	34	280	1,400	-		-	-	

Table 1
Historical Groundwater Gauging Data and Select Analytical Results
Former Chevron Service Station 97502
640 Metcalf Street, Sedro-Woolley, Washington

										640 Me	tcalf Street, Sedro-We	oney, washington								
Well	Date	TOC (ft NAVD 88)	DTP (ft)	DTW (ft)	GWE (ft NAVD 88)	NAPL Thickness (ft)	GRO (µg/L)	DRO (μg/L)	DRO w/ Silica Gel (µg/L)	HRO (µg/L)	HRO w/ Silica Gel (μg/L)	Benzene (µg/L)	Toluene (μg/L)	Ethylbenzene (µg/L)	Total Xylenes (μg/L)	MTBE (μg/L)	Dissolved Lead (µg/L)	Total Lead (µg/L)	EDB (µg/L)	Comments
MW 14	12/10/2011	56.51	TCA Method	A CULs 9.40	47.11		800/1,000	500	500	500	500	5	1000	700	1000	20	15	15	0.01	
MW-14 MW-14	12/19/2011 3/15/2012	56.51	-	8.15	48.36	-	13,000	-	220	-	<68	-3	110	340	2,100	-	-	-	-	
	6/13/2012 9/10/2012	56.51 56.51	-	7.80 9.10	48.71 47.41		4,900 13,000	-	76 200	-	<72 <70	<1 <5	19	100 390	470 1,600	-		-		
	12/10/2012	56.51	-	9.10 8.52	47.41	-	3,000	-	53	-	<71	<	39 11	60	390	-	-	-	-	
	3/11/2013	56.51	-	7.70	48.81		17,000	-	230	-	<67	<5	100	460	2,500	-		-		
	6/12/2013 9/18/2013	56.51 56.51	-	7.90 9.28	48.61 47.23		10,000 12,000	120 190	-	<66 <67	-	0.5 0.6	56 50	390 460	1,800 2,300	-	-	-	-	
MW-14	12/11/2013	56.51	-	8.90	47.61	-	9,200	90	-	<66	-	<3	39	310	1,900	-	-	-		
MW-14 MW-14	3/12/2014 9/27/2014	56.51 56.51	-	9.02 9.22	47.49 47.29	-	18,000 280	-	-	-	-	<1 <0.5	54 <0.5	580 <0.5	2,800 <0.5	-	-	-		
MW-14	8/17/2020	56.51	-	9.65	46.86		5,720	480	-	<83.3	-	0.245 J	4.55	143	420	-		<2.95	-	
MW-14 MW-14	9/28/2021	56.49 56.49	-	10.62 8.36	45.87 48.13		5,110 7,390	556 686		<250 114 J	-	0.394 J 0.413 J	7.98	454 E 337	837 E 1,240	<1.00 <0.101	<7.99	<6.00		
MW-14	2/15/2022	56.49	-	7.80	48.69		4,860	547	-	<83.3	-	0.318 J	4.47	94.0	249	< 0.101	< 0.849	-	-	
	6/7/2022 9/28/2022	56.49 56.49	-	7.91 9.43	48.58 47.06		5,760 443	438 94.0 J	**	225 J 181 J	-	<0.0941 0.109 J O	4.35 J 0.765 J O	172 27.8 O	456 72.0 O	<1.01 <1.00 O	<0.849 <2.00	-	-	
MW-14	1/5/2023	56.49	-	9.55	46.94		305 B [659]	92.0 J [175 J]	-[-]	<250 [129 J]	-[-]	<1.00 [<1.00]	0.312 J [0.639 J]	7.09 [21.3]	17.8 [49.9]	<1.00 [<1.00]	<2.00 [<2.00]	-[-]	-[]	
	3/23/2023 6/21/2023	56.49 56.49	-	9.20 9.66	47.29 46.83		287 B 224 B	<200 <200	-	<250 <250	-	<1.00 <1.00	<1.00 <1.00	3.41 2.91 J3	6.76 6.86	<1.00 <1.00	<2.00 <2.00	-	-	
MW-14	9/12/2023	56.49	-	11.01	45.48	-	2,700	230	-	<250 <83.3	-	<1.00 0.272 J	<1.00 3.21	115	295	<0.101	1.43 B J	-	-	
MW-14	12/13/2023	56.49	-	11.96	44.53			259			-		-		_			-	-	Insufficient water to purge or sample
	2/21/2024 6/10/2024	56.49 56.49	-	9.71 9.78	46.78 46.71		928 J3 200 [547]	90.7 J [145 J]	-[-]	<83.3 <83.3 [<83.3]	-[-]	0.141 J <0.0941 [<0.0941]	1.50 0.349 J [0.356 J]	69.4 24.5 [23.0]	141 25.2 [23.9]	<0.101 <0.101 [<0.101]	<0.849 <0.849 [<0.849]	[]	- []	
MW-14	9/17/2024	56.49	-	9.85	46.64		53.5 B J	<66.7		<83.3		< 0.0941	<0.278	< 0.137	<0.174	<0.101	< 0.849		-	-
MW-15	9/27/2021	56.71	-	10.09	46.62	-	219 B	396		<250	_	<1.00	<1.00	<1.00	<3.00	<1.00	-	<6.00		
MW-15	12/14/2021	56.71	-	7.55	49.16		406 B	491	-	<83.3	-	< 0.0941	< 0.278	< 0.137	< 0.174	< 0.101	<2.99	-	-	Odor present on probe
	2/16/2022 6/6/2022	56.71 56.71	-	7.31 7.44	49.40 49.27	-	163 B [175 B] 342	428 [414] 486	-[-]	<83.3 [93.1 J] <83.3	[-]	<0.0941 [<0.0941] <0.0941	<0.278 [<0.278] <0.278	<0.137 [<0.137] <0.137	<0.174 [<0.174] <0.174	<0.101 [<0.101]	<0.849 [<0.849] <0.849	[]	-[-]	
MW-15	9/27/2022	56.71	-	9.44	47.27	-	288	372	-	158 J	-	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	-		-
MW-15 MW-15	1/6/2023 3/22/2023	56.71 56.71	-	8.81 8.57	47.90 48.14	-	272 B 171	586 279	-	93.8 J <250	-	<1.00 <1.00	<1.00 <1.00	<1.00 <1.00	<3.00 <3.00	<1.00 <1.00	<2.00 <2.00	-	-	
MW-15	6/21/2023	56.71	-	9.41	47.30	-	181 B	400	-	<250	_	<1.00	<1.00	<1.00	<3.00	<1.00	1.35 J	-	-	
	9/11/2023	56.71 56.71	-	10.59	46.12 47.09	-	275 286 R [<31.6]	406 561 [<66.7]	-[-]	<83.3 <83.3 [<83.3]	-[-]	<0.0941 <0.0941 [<0.0941]	<0.278 <0.278 [<0.278]	<0.137 <0.137 [<0.137]	<0.174 <0.174 [<0.174]	<0.101 <0.101 [<0.101]	2.37 B <0.849 [<0.849]	-[-]	- []	
MW-15	2/20/2024	56.71	-	8.83	47.88	-	205 B J3 J5	509		<83.3	-1-1	< 0.0941	<0.278	<0.137J3	< 0.174	< 0.101	<0.849	[]	-[-]	
	6/11/2024 9/16/2024	56.71 56.71	-	9.63 9.11	47.08 47.60		183 186 B	409 436		<83.3 <83.3	-	<0.0941 <0.0941	<0.278 <0.278	<0.137 <0.137	<0.174 <0.174	<0.101 <0.101	<0.849 <0.849	-	-	
			-														-0.849		-	
	9/27/2021 12/14/2021	56.62 56.62	-	9.75 7.38	46.87 49.24		54.7 B J <31.6	72.0 J 162 J		<250 <83.3	-	<1.00 <0.0941	<1.00 <0.278	<1.00 <0.137	<3.00 <0.174	<1.00 <0.101	<2.99	<6.00		
MW-16	2/16/2022	56.62	-	7.31	49.31		79.6 B J	106 J	-	84.1 J	-	< 0.0941	< 0.278	< 0.137	< 0.174	< 0.101	< 0.849	-	-	
MW-16	6/6/2022	56.62	-	7.45	49.17 47.50		62.6 B J <100	99.1 J	-	<83.3	-	<0.0941	< 0.278	<0.137 <1.00	< 0.174	<0.101 <1.00	< 0.849	-		
MW-16 MW-16	9/27/2022 1/6/2023	56.62 56.62	-	9.12 8.61	48.01	-	<100 45.9 B J	<200 79.6 J	-	120 J 97.9 J	-	<1.00 <1.00	<1.00 <1.00	<1.00	<3.00 <3.00	<1.00	<2.00 <2.00	-	-	
	3/22/2023 6/20/2023	56.62 56.62	-	8.4 9.00	48.22 47.62		<100 <100	<200 <200	-	<250 <250	-	<1.00 <1.00	<1.00 <1.00	<1.00 <1.00 J3	<3.00 <3.00	<1.00 <1.00	<2.00 2.48	-	-	
	9/12/2023	56.62	-	10.25	46.37	-	<31.6	<66.7	-	<83.3	-	<0.0941	<0.278	< 0.137	<0.174	<0.101	< 0.849	-	-	
	12/13/2023 2/20/2024	56.62 56.62	-	9.82 8.71	46.80 47.91		54.4 B J 75.0 B J J3	3,280 117 J	-	240 J <83.3	-	<0.0941 <0.0941	<0.278 <0.278	<0.137 <0.137	<0.174 <0.174	<0.101 <0.101	<0.849 <0.849	-		
	6/11/2024	56.62	-	9.14	47.48	-	<31.6	76.9 J		<83.3	-	<0.0941	<0.278	<0.137	<0.174	<0.101	<0.849	-	-	
MW-16	9/16/2024	56.62	-	9.02	47.60		46.0 B J	68.3 J	-	<83.3	-	<0.0941	<0.278	<0.137	<0.174	<0.101	<0.849	-		
MW-17	9/28/2021	56.54	-	10.34	46.20		<100	546	-	<250	-	0.124 J	125 E	152 E	616 E	<1.00	-	<6.00		
	12/15/2021	56.54 56.54	-	7.99 7.68	48.55 48.86		2,800	411 599	-	<83.3 125.I	-	<0.0941 <0.0941	40.9 28.3	68.9 96.5	382 336	<0.101	<2.99 <0.849	-	-	
	6/7/2022	56.54	-	7.68	48.86		4,960 4,080	599 648	-	250 J	-	<0.0941	28.3 19.9	96.5	336 210	<0.101	<0.849	-	-	
	9/28/2022	56.54	-	9.59	46.95		6,610	584	-	152 J	-	<1.00	41.0	143 E	423 E	<1.00	<2.00	-		
MW-17 MW-17	1/5/2023 3/23/2023	56.54 56.54	-	9.21 8.92	47.33 47.62		3,480 3,320 (3,510)	619 270 [302]	-[-]	<250 <250 [<250]	[-]	<1.00 <1.00 [<1.00]	32.8 26 [25.8]	90.5 69.6 [70.6]	414 333 [329]	<1.00 <1.00 [<1.00]	<2.00 <2.00 [<2.00]	-[-]	-[-]	
MW-17	6/20/2023	56.54	-	9.51	47.03		3,550	412		<250	-	<1.00	23.6	63.3 J3	276	<1.00	0.874 J	-	-	
MW-17 MW-17	9/11/2023 12/14/2023	56.54 56.54	-	10.75 10.17	45.79 46.37		1,780 1,480	336 4,350	-	<83.3 104 J	-	<0.0941 <0.0941	32.4 20.7	56.4 49.8	168 134	<0.101 <0.101	1.80 B J <0.849	-	-	
MW-17	2/20/2024	56.54 56.54	-	9.47	47.07 46.72	-	652 J3	283		<83.3	-	<0.0941 <0.0941	16.3 13.0	31.7 38.4	87.5 108	<0.101 <0.101	<0.849 <0.849	-	-	
	6/11/2024 9/17/2024	56.54 56.54	-	9.82 9.42	46.72 47.12	-	2,190 1,780	477 732	-	<83.3 <83.3	-	<0.0941 <0.0941	13.0 33.5	38.4 95.7	108 228	<0.101 <0.101	<0.849 <0.849	-	-	
		56.56		15.1	41 46		367	161 I		<250		<1.00	<1.00	<1.00	<3.00	<1.00		3.80 I		
	9/28/2021 12/15/2021	56.56	-	8.18	41.46 48.38	-	427	174 J	-	<83.3	_	<1.00 <0.0941	<0.278	<1.00 0.791 J	3.96	<0.101	<2.99	5.80 J	-	
	2/16/2022	56.56	-	7.58	48.98		99.7 B J	127 J	-	85.1 J	-	<0.0941	<0.278	<0.137	<0.174	<0.101	<0.849	-	-	
	6/7/2022 9/28/2022	56.56 56.56	-	7.69 10.01	48.87 46.55		<31.6 73.3 J	<66.7 67.9 J	-	246 J 180 J	-	<0.0941 <1.00	<0.278 <1.00	<0.137 <1.00	0.259 J <3.00	<0.101 <1.00	<0.849 <2.00	-	-	
MW-18	1/4/2023	56.56	-	10.04	46.52		973	134 J	**	88.9 J	-	<1.00	<1.00	0.624 J	<3.00	<1.00	<2.00	-	-	
MW-18 MW-18	3/23/2023 6/21/2023	56.56 56.56	-	9.27 10.00	47.29 46.56		306 B 161 B	<200 75.3 J	-	<250 <250	-	<1.00 <1.00	<1.00 <1.00	<1.00 <1.00	0.175 J <3.00	<1.00 <1.00	<2.00 <2.00	-	-	
MW-18	9/11/2023	56.56	-	11.45	45.11		759	164 J	**	<83.3	-	<0.0941	< 0.278	0.167 J	0.449 J	<0.101	<0.849	-	-	
	12/13/2023 2/21/2024	56.56 56.56	-	10.98 9.62	45.58 46.94	-	378 B 124 B J3	279 163 J	-	<83.3 <83.3	_	<0.0941 <0.0941	<0.278 <0.278	<0.137 <0.137	<0.174 <0.174	<0.101	<0.849 <0.849	-	-	
MW-18	6/10/2024	56.56	-	10.23	46.33		<31.6	78.1 J		<83.3	-	<0.0941	< 0.278	< 0.137	< 0.174	< 0.101	< 0.849	-		
MW-18	9/16/2024	56.56	-	10.06	46.50	-	84.3 B J [50.1 B J]	117 J [113 J]	-[-]	<83.3 [<83.3]	[]	<0.0941 [<0.0941]	<0.278 [<0.278]	<0.137 [<0.137]	<0.174 [<0.174]	<0.101[<0.101]	<0.849[<0.849]	[]	- []	
	12/15/2021	56.72	-	8.68	48.04		<31.6	<66.7	-	<83.3	-	< 0.0941	<0.278	< 0.137	0.278 J	<0.101	<2.99	-	-	
	2/15/2022 6/7/2022	56.72 56.72	-	8.11 8.24	48.61 48.48	-	67.2 J J3 <31.6	<66.7 <66.7	-	<83.3 217 J	-	<0.0941 <0.0941	<0.278 <0.278	<0.137 <0.137	0.253 J <0.174	<0.101	<0.849 <0.849	-	-	
MW-19	9/28/2022	56.72	-	10.00	46.72	-	<100 [<100]	<200 [<200]	-[-]	138 J [<250]	-[-]	<1.00 [<1.00]	<1.00 [<1.00]	<1.00 [<1.00]	<3.00 [<3.00]	<1.00 [<1.00]	<2.00 [<2.00]	-[-]	- []	
MW-19 MW-19	1/4/2023 3/23/2023	56.72 56.72	-	9.66 9.51	47.06 47.21		<100 40.1 B J	<200 <200	-	<250 <250	-	<1.00 <1.00	<1.00 <1.00	<1.00 <1.00	<3.00 <3.00	<1.00 <1.00	<2.00 <2.00	-	-	
MW-19	6/21/2023	56.72	-	10.11	46.61	-	65.3 B J [43.7 B J]	<200 [<200]	-[-]	<250 [<250]	[]	<1.00 [<1.00]	<1.00 [<1.00]	<1.00 [<1.00]	<3.00 [<3.00]	<1.00 [<1.00]	1.78 J [<2.00]	-[-]	- []	
MW-19	9/12/2023 12/13/2023	56.72 56.72	-	11.77 11.74	44.95 44.98	-	162 J3 127 B	76.5 J 11.800	-	<83.3 3.960	-	<0.0941 <0.0941	<0.278 <0.278	0.144 J <0.137	0.282 J <0.174	<0.101 <0.101	1.89 B J <0.849	-	-	
	2/21/2024	56.72		10.16	46.56		60.2 B J J3 [<31.6]	11,800 140 J [<66.7]	-[-]	3,960 399 [86.6 J]	-[-]	<0.0941 [<0.0941]	<0.278 [<0.278]	<0.137 [<0.137]	<0.174 [<0.174]	<0.101 [<0.101]	<0.849 [<0.849]	-[-]	-[-]	
	6/10/2024 9/17/2024	56.72 56.72	-	10.17 10.25	46.55 46.47	-	<31.6 J3 <31.6	<66.7 <66.7	-	<83.3 <83.3	-	<0.0941 <0.0941	<0.278 J3 <0.278	<0.137 J3 <0.137	<0.174 <0.174	<0.101	<0.849 <0.849	-	-	
MW-20	12/15/2021	56.57	-	9.75	46.82		<31.6	<66.7		<83.3	-	< 0.0941	< 0.278	< 0.137	< 0.174	< 0.101	<2.99	-	-	

#### Table 1 Historical Groundwater Gauging Data and Select Analytical Results Former Chevron Service Station 97502 640 Metcalf Street, Sedro-Woolley, Washington

	on Action of Copy and American																			
Well	Date	TOC (ft NAVD 88)	DTP (ft)	DTW (ft)	GWE (ft NAVD 88)	NAPL Thickness	GRO (µg/L)	DRO (µg/L)	DRO w/ Silica Gel (µg/L)	HRO (μg/L)	HRO w/ Silica Gel (μg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (μg/L)	Dissolved Lead (µg/L)	Total Lead (µg/L)	EDB (μg/L)	Comments
		, ,			(R. (.T. D 00)	(ft)							40.7	40 /						
			TCA Method A				800/1,000	500	500	500	500	5	1000	700	1000	20	15	15	0.01	
MW-20	2/15/2022	56.57	-	9.68	46.89		<31.6 [<31.6]	<66.7 [<66.7]	[]	<83.3 [<83.3]	[-]	<0.0941 [<0.0941]	<0.278 [<0.278]	<0.137 [<0.137]	<0.174 [<0.174]	<0.101 [<0.101]	<0.849 [0.880 J]	[]	- []	
MW-20	6/7/2022	56.57	-	9.80	46.77		<31.6	<66.7		219 J	-	< 0.0941	<0.278	< 0.137	< 0.174	< 0.101	< 0.849	-	-	
MW-20	9/28/2022	56.57	-	13.11	43.46	-	<100 J3	73.6 J		<250	-	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	-	-	
MW-20	1/4/2023 3/23/2023	56.57 56.57	-	11.04 10.88	45.53 45.69		<100 34.1 B J	<200 <200		<250 <250	-	<1.00 <1.00	<1.00 0.348 J	<1.00 <1.00	<3.00 0.272 J	<1.00 <1.00	<2.00 <2.00	-	-	
MW-20 MW-20	6/21/2023	56.57	-	11.08	45.49	-	40.5 B J	77.3 J	-	<250	-	<1.00	<1.00	<1.00	<3.00	<1.00	2.74	-	-	
MW-20	9/12/2023	56.57	-	15.68	40.89	-	≪31.6	<66.7	-	<83.3	-	<0.0941	<0.278	< 0.137	< 0.174	<0.101	1.91 B J		-	
MW-20	12/13/2023	56.57	-	15.41	41.16	-	34.5 B J	<66.7	-	<83.3	-	<0.0941	<0.278	< 0.137	< 0.174	< 0.101	< 0.849		-	
MW-20	2/20/2024	56.57	-	11.47	45.10	-	59.8 B J J3	<66.7	-	184 J	-	<0.0941	<0.278	< 0.137	< 0.174	< 0.101	< 0.849		-	
MW-20	6/10/2024	56.57	-	10.91	45.66		<31.6	<66.7		<83.3	-	<0.0941	<0.278	< 0.137	< 0.174	<0.101	< 0.849	-	-	
MW-20	9/17/2024	56.57	-	12.78	43.79	-	<31.6	<66.7	-	<83.3	_	<0.0941	<0.278	< 0.137	< 0.174	< 0.101	<0.849	_	_	
	2/1//2024																			
MW-21	9/28/2021	55.95	-	9.18	46.77		233	244		<250	-	<1.00	<1.00	2.3	12.9	<1.00		4.16 J		
MW-21	12/16/2021	55.95	-	6.72	49.23	-	<31.6	89.7 J	-	178 J	_	< 0.0941	<0.278	< 0.137	< 0.174	< 0.101	<2.99	4.107	-	=
MW-21	2/16/2022	55.95	-	6.58	49.37	-	50.3 B J	292	-	153 J	-	< 0.0941	<0.278	< 0.137	< 0.174	< 0.101	< 0.849	-	_	=
MW-21	6/6/2022	55.95	-	6.67	49.28	-	<31.6	231		114 J	-	< 0.0941	< 0.278	< 0.137	< 0.174	< 0.101	< 0.849	-	-	
MW-21	9/27/2022	55.95	-	8.52	47.43		<100	119 J		<250	-	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	-	-	
MW-21	1/6/2023	55.95	-	8	47.95		<100	110 J		<250	-	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	-	-	
MW-21	3/22/2023	55.95	-	7.51	48.44		167 B	<200		<250	-	<1.00	<1.00	0.470 J	2.25 J	<1.00	<2.00	-	-	
MW-21	6/20/2023	55.95	-	9.38	46.57		<100	122 J		<250	-	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	-	-	
MW-21	9/12/2023	55.95	-	9.71	46.24	-	110	194 J	-	<83.3	-	< 0.0941	<0.278	< 0.137	< 0.174	< 0.101	3.03 B	-	-	
MW-21	12/13/2023	55.95	-	9.36	46.59	-	114 B	399	-	195 J	-	< 0.0941	< 0.278	< 0.137	< 0.174	< 0.101	1.49 J	-	-	
MW-21	2/21/2024	55.95	-	8.09	47.86		70.7 B J J3 [<31.6]	203 [207]	[-]	160 J [150 J]	[]	< 0.0941 [< 0.0941]	<0.278 [<0.278]	< 0.137 [< 0.137]	<0.174 [<0.174]	<0.101 [<0.101]	< 0.849 [< 0.849]	[]	- []	•
MW-21	6/11/2024	55.95	-	9.07	46.88		75.2 B J	80.8 J	-	<83.3	-	< 0.0941	< 0.278	< 0.137	< 0.174	<0.101	< 0.849	-	-	•
MW-21	9/16/2024	55.95	-	8.36	47.59		<31.6	105 J	-	<83.3	-	< 0.0941	< 0.278	< 0.137	< 0.174	<0.101	< 0.849	-	-	•
RS-1	12/14/2021		-		-		<31.6	<66.7		<83.3	-	< 0.0941	< 0.278	< 0.137	< 0.174	<0.101	<2.99	-	-	
RS-1	1/4/2023		-		-		43.1 B J	69.5 J		<250	-	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	-	-	
RS-1	3/23/2023		-		-	-	119 B	<200		<250	-	<1.00	3.25	0.906 J	4.88	<1.00	<2.00	-	-	
RS-1	3/23/2023		-		-	-	<100	<200		<250	-	<1.00	3.19	0.940 J	5.24	<1.00	<2.00	-	-	
RS-1	6/20/2023		-		-	-	<100	<200	-	<250	-	0.112 J	1.01	0.199 J J3	1.01 J	<1.00	<2.00	-	-	
RS-1	9/11/2023		-		-		32.6 J	<66.7		<83.3	-	< 0.0941	<0.278	< 0.137	< 0.174	< 0.101	3.67 B	-	-	
RS-1	9/12/2023		-		-		39.7 J	<66.7		<83.3	-	< 0.0941	<0.278	< 0.137	< 0.174	< 0.101	< 0.849	-	-	
RS-1	12/13/2023		-		-	-	139	2,530	-	169 J	-	0.146 J <0.0941	6.27	1.46	8.80	< 0.101	< 0.849	-	-	
RS-1	2/20/2024 2/21/2024		-	-	-	-	<31.6 <31.6	<66.7 <66.7		<83.3 <83.3	-	<0.0941	<0.278 <0.278	<0.137 <0.137	<0.174 <0.174	<0.101	<0.849 <0.849	-	-	
RS-1			-		-	-	36.8 J	149 J		<83.3	-	<0.0941	0.395 J	< 0.137	0.645 J	<0.101	< 0.849	-	-	
RS-1 RS-1	6/10/2024 9/16/2024	-	-		-		30.8 J <31.6	<66.7		<83.3	-	<0.0941	<0.3933	<0.137	< 0.174	<0.101	<0.849	-	-	
RS-1		-				-	<31.6	<66.7		<83.3		<0.0941	<0.278	< 0.137	< 0.174	<0.101	<0.849		-	
K5-1	9/17/2024		-	-	-	-	~31.0	~00.7	-	~83.3	-	~0.0941	~0.278	~0.137	~0.174	~0.101	~0.849	-	-	-
RS-2	6/7/2022		-		-		<31.6	171 J		156 J	-	< 0.0941	<0.278	< 0.137	< 0.174	< 0.101		< 0.849	-	-
RS-2	1/5/2023		-			-	58.6 B J	134 J	-	146 J	_	<1.00	<1.00	<1.00	<3.00	<1.00	<2.00	~0.849	-	-
RS-2	6/21/2023	-	-		-	-	73.2 B J	<200		<250	-	0.131 J	1.47	0.211 J	1.28 J	<1.00	1.81 B J		-	
RS-2	12/14/2023	-	-		_	-	138	6,970	-	514	-	0.131 J	6.17	1.45	8.84	<0.101	< 0.849	_	-	
RS-2	6/11/2024	-	-	-	-	-	70.8 B J	114 J	-	<83.3	_	< 0.0941	0.382 J	< 0.137	0.662 J	< 0.101	< 0.849	-	_	=
1.072	211/2024		<del>                                     </del>							33.3		2.0741			3.302.7		2.047			=
RS-3	1/6/2023		-	-	-		125 B	601		229 J	-	<1.00	0.680 J	<1.00	0.309 J	<1.00	<2.00	-	-	=
		1			1													1		
TB-1	9/11/2023		-		-		<31.6			-	-	< 0.0941	< 0.278	< 0.137	< 0.174	-		-	-	
TB-1	9/12/2023		-		-		<31.6			-	-	< 0.0941	<0.278	< 0.137	< 0.174	-		-	-	
TB-1	12/13/2023		-		-	-	<31.6	-		-	-	< 0.0941	<0.278	< 0.137	< 0.174	-		-	-	
TB-1	2/21/2024		-		-	-	39.3 J	-		-	-	< 0.0941	<0.278	< 0.137	< 0.174	-		-	-	
TB-1	6/10/2024		-		-	-	<31.6	-			-	< 0.0941	< 0.278	< 0.137	< 0.174	-		-	-	
TB-1	9/16/2024		-		-		<31.6			-	-	< 0.0941	<0.278	< 0.137	< 0.174	-	-	-	-	
TB-1	9/17/2024	-	-		-	-	<31.6	-	-	-	-	< 0.0941	<0.278	< 0.137	< 0.174	-		-	-	
TB-2	12/14/2023	-	ı		-	1	<31.6			-	-	< 0.0941	<0.278	< 0.137	< 0.174	-		-	1	
TB-2	6/11/2024	-	-		-	-	84.7 B J			-	-	< 0.0941	<0.278	< 0.137	< 0.174	-		-	-	
												-								-

other:

Analytical results are presented in micrograms per liter (µg/L)

Surveyed in 2021 by Otak, Inc. using NAD 81 (herizottal) and NAVD 88 (vertical)

S001,1000 – (800 NATCA Method A CU, with between persons in 800 µg/L and without is 1,000 µg/L

BOLD values are greater than their respective MTCA Method A CUI.

\*\*POLD values are mondeter below the bloomtory MDL, but MeDL is greater than the MTCA Method A CUI.

If NAPIL is present, GWE is corrected according to the following formula: (TOC - DTW) + (0.8 x NAPL)

Due to weather delays, January 2023 analytical date represent the fourth quarter 2022 groundware sampling event.

Historical are values reported to RDL. From the third quarter 2023 on, values should always be reported to the MDL.

GB = Grab-groundwater sample
MW = Groundwater monitoring well
TOC = Top of easing in feet above NAVD 88
DTP = Depth to product in feet below TOC
DTW = Depth to water in feet below TOC
GWE = Groundwater elevation in feet relative to NAVD 88
NAPI = Nonenanous robust invited thirdness in feet
ANAI = Nonenanous robust invited thirdness in feet feet GWE – Groundwater elevation in feet relative to NAV NAPL – Non-aqueous phase liquid thickness in feet [21.2] – Blind duplicate sample results – Not applicable, not available, or not analyzed ND – Not detected MD – Not detected MD – Method detection limit MTCA – Model Toxics Control Act Cleanup

NATA = Notice | Oxfee Control Act Cleanup CUL = Cleanup Level NAVD 88 = North American Vertical Datum of 1988 USEPA = United States Environmental Protection Agency

TB = Trip Blank RS = Rinsate Blank

#### Analytical Methods:

E
Samples analyzed by NWTPH-Gx
GRO = Total Petroleum Hydrocarbons as Gasoline Range Organics,
Samples analyzed by NWTPH-Dx

Samples analyzed by NW 1PH-DX

DRO = Total Petroleum Hydrocarbons as Diesel Range Organics

HRO = Total Petroleum Hydrocarbons as Heavy Oil Range Organics

Samples analyzed by NWTPH-Dx modified

Samples analyzed by NWTH-15 modified
DRO w Slitica Gel – Total Perforium Hydrocurbons as Diesel Range Organics with silica gel cleanup
HRO w Slitica Gel – Total Perforium Hydrocurbons as Heavy Oil Range Organics with silica gel cleanup
Samples analyzed by USEPA Method SG4087-2000
BTEX – benzene, toluene, chylleruzene, and total xylenes
MTBE – Mediap teirary-bavil petits
ATBE – Mediap teirary-bavil petits
STER – Section Strain-part of the Strain S

EDB = 1,2-Dibromoethane (ethylene dibromide)
Samples analyzed by USEPA Method 6010D/6020B
Dissolved lead
Total lead

#### Laboratory Qualifiers:

- •a Not detected at or above the laboratory MDL.
  B The same analysic is found in the associated blank.
  B The same analysic is found in the associated blank.
  F The analyse concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
  J Estimated value, result is ≥ the MDL and \* the Reported Detection Limit of the Company of the Com

#### Table 2 Sampling and Analysis Plan Former Chevron Station 97502

#### 640 Metcalf Street, Sedro-Woolley, Washington

Analytes/Field Data	Example Method	Baseline <sup>a</sup>	Wells	Performance Monitoring <sup>b</sup>	Wells
Primary Geochemical Parameters					
Depth to water	Electronic interface probe	X		X	
pH	YSI or similar	X	MW-4, MW-5, MW-6, MW-7,	X	MW-4, MW-5, MW-6, MW-7,
ORP/redox (pre/post-purge)	YSI or similar	X	MW-8, MW-10, MW-11, MW-	X	MW-8, MW-10, MW-11, MW-
Dissolved oxygen (pre/post-purge)	YSI or similar	Х	12, MW-13, MW-14, MW-15, MW-16, MW-17, MW-18, MW-	X	12, MW-13, MW-14, MW-15, MW-16, MW-17, MW-18, MW-
Conductivity	YSI or similar	X	19, MW-20, MW 21	X	19, MW-20, MW-
Turbidity	YSI or similar	X		X	
Temperature	YSI or similar	X	1 i	X	
COCs					
TPH-GRO	NWTPH-Gx	X		X	
TPH-DRO and TPH-HRO	NWTPH-Dx	X	MW-4, MW-5, MW-6, MW-7,	X	MW-4, MW-5, MW-6, MW-7,
TPH-DRO and TPH-HRO with SGC	NWTPH-Dx modified (as needed)	X	MW-8, MW-10, MW-11, MW- 12, MW-13, MW-14, MW-15,	X	MW-8, MW-10, MW-11, MW- 12, MW-13, MW-14, MW-15,
BTEX, MTBE, and EDC	USEPA Method 8260D	X	12, MW-13, MW-14, MW-15, MW-16, MW-17, MW-18, MW- 19, MW-20, MW 21	X	12, MW-13, MW-14, MW-15, MW-16, MW-17, MW-18, MW-
EDB	USEPA Method 8011	X		X	19, MW-20, MW-
Lead	USEPA Method 6000 series	X	]	X	
Secondary Geochemical Parameters					
Sulfate	USEPA Method 9056A	X		X	
Sulfide	SM Method 4500S2 D	X	1	X	
Nitrate	USEPA Method 9056A	X	1	X	7
Nitrite	USEPA Method 9056A	X	1	X	7
Total Kjeldahl Nitrogen	USEPA Method 351.2	X	MW-6, MW-7, MW-8, MW-10,	X	MW-6, MW-7, MW-8, MW-10,
Dissolved Iron	USEPA Method 6010D	X	MW-11, MW-12, MW-13, MW-	X	MW-11, MW-13, MW-14, MW-17,
Dissolved Manganese	USEPA Method 6010D	X	14, MW-17, MW-18, MW-19	X	MW-19
Total Manganese	USEPA Method 6010D	X	1	X	
Total Iron	USEPA Method 6010D	X	]	X	
Methane	USEPA Method RSK175	X	]	X	
Alkalinity	USEPA Method 2320B	X	]	X	
Total Organic Carbon	USEPA Method 9060A	X	<u> </u>	X	

#### Notes:

a Baseline monitoring will be performed on a quarterly basis for 1 year.

b Performance monitoring will be performed semi-annually for the second and third years and annually for subsequent years.

#### Acronyms and Abbreviations:

BTEX = benzene, toluene, ethylbenzene, total xylenes

COC = constituent of concern

MTBE = methyl tertiary butyl ether

ORP = oxidation-reduction potential

SGC = silica gel cleanup

SM = Standard Method

TPH-DRO = total petroleum hydrocarbons as diesel-range organics

 $TPH\text{-}GRO = total\ petroleum\ hydrocarbons\ as\ gasoline\text{-}range\ organics$ 

TPH-HRO = total petroleum hydrocarbons as heavy oil-range organics

USEPA = United States Environmental Protection Agency

YSI = Yellow Springs Instruments

## **Figures**

ΒΥ.

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L.P. 

APPROXIMATE LIGHT POLE

**AECOM** 

2

MW-4 +

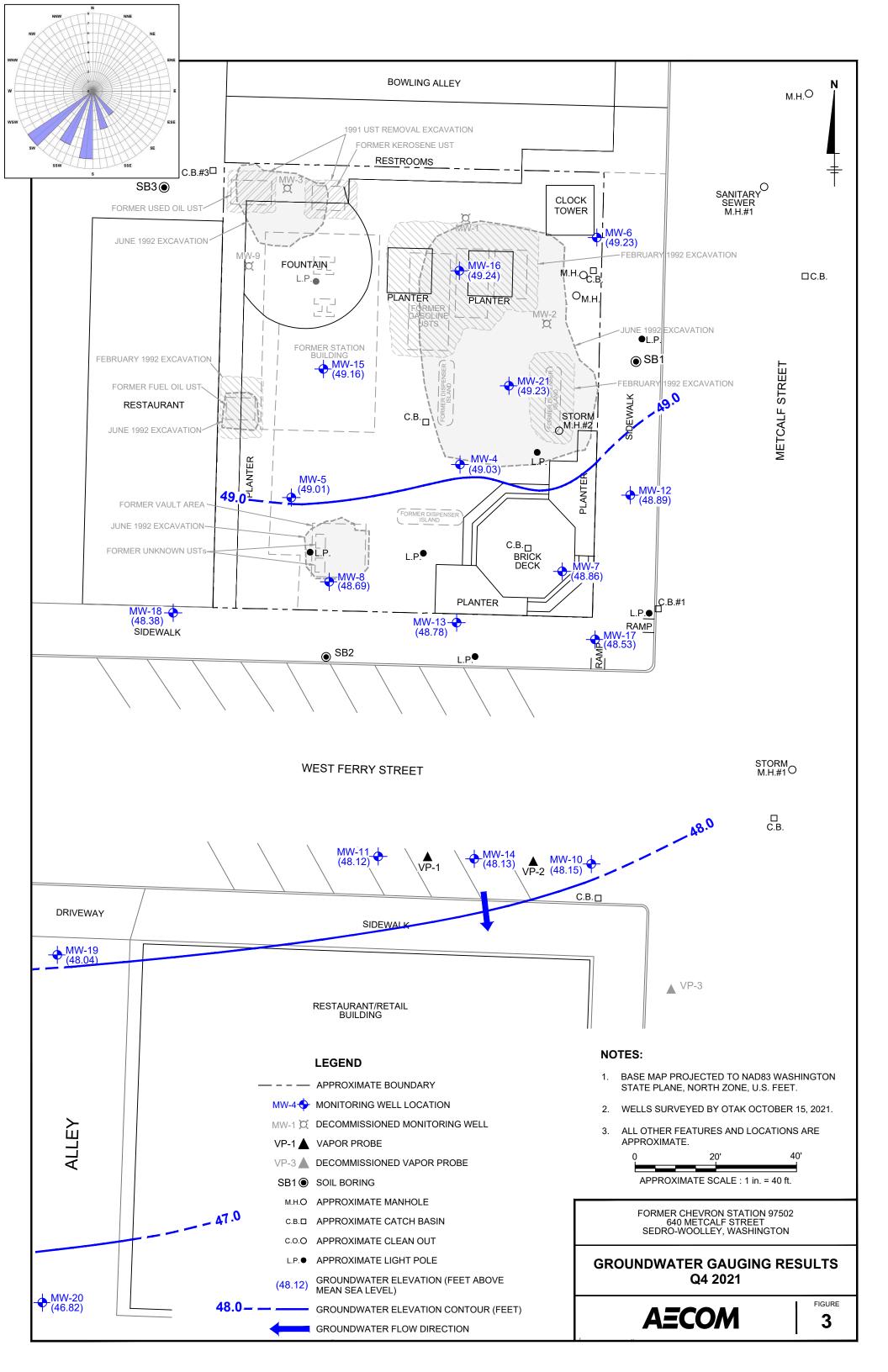
MW-1

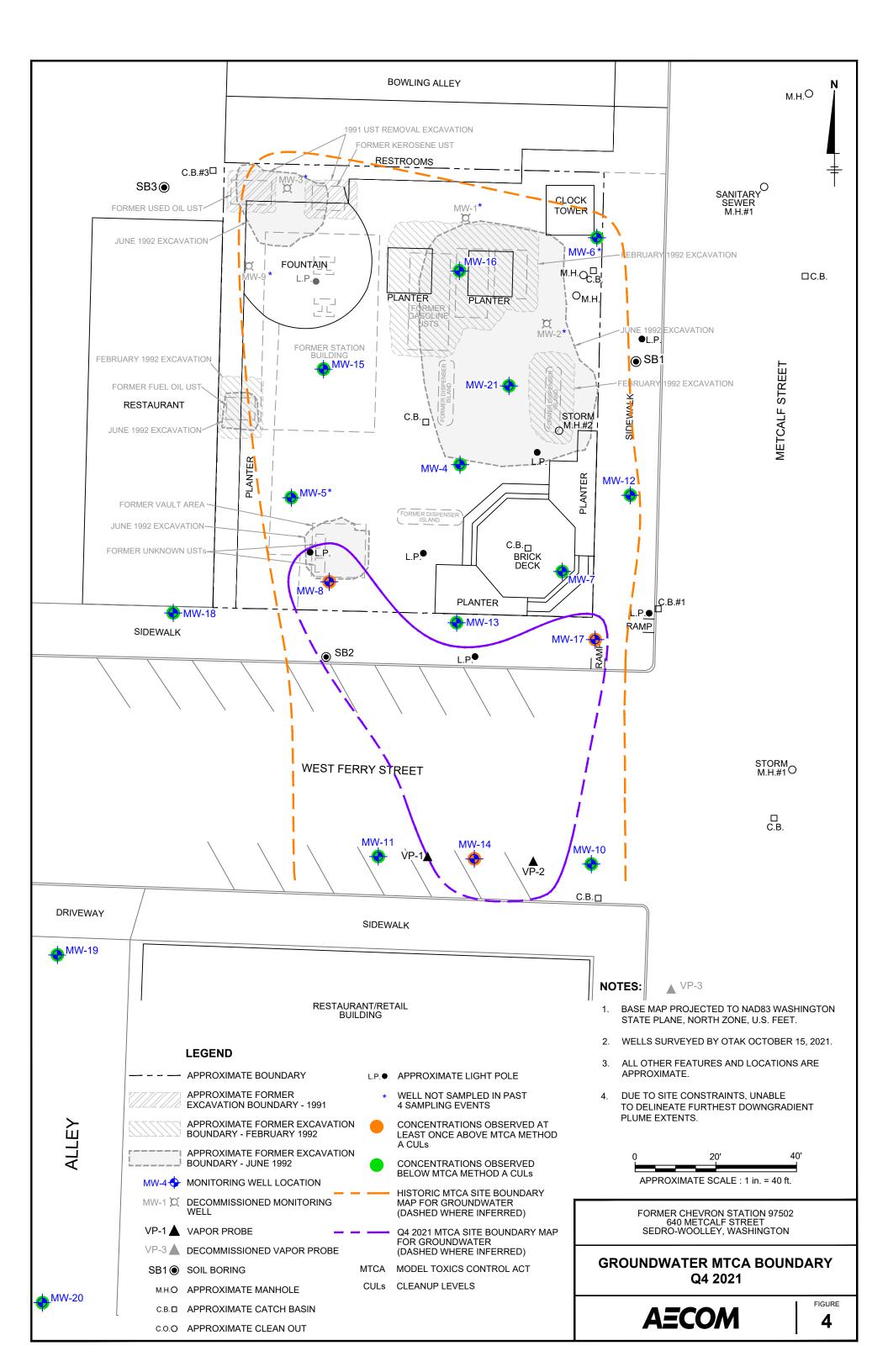
**MW-20** 

MONITORING WELL LOCATION

VAPOR PROBE

DECOMMISSIONED MONITORING WELL





### **Appendix A Monitoring Well Sampling Procedure**



### **Monitoring Well Sampling**

#### **Procedure 3-14**

#### 1.0 Purpose and Scope

- 1.1 This standard operating procedure (SOP) describes the actions to be used during monitoring well sampling activities and establishes the method for sampling groundwater monitoring wells for water-borne contaminants and general groundwater chemistry. The objective is to obtain groundwater samples that are representative of aquifer conditions with as little alteration to water chemistry as possible.
- 1.2 As guidance for specific activities, this procedure does not obviate the need for professional judgment.

  Deviations from this procedure while planning or executing planned activities must be approved in accordance with Program requirements for technical planning and review.

#### 2.0 Safety

- 2.1 Depending upon the site-specific contaminants, various protective programs must be implemented prior to sampling the first well. All Field Sampling Personnel responsible for sampling activities must review the project-specific Health and Health Plan (HASP) paying particular attention to the control measures planned for the well sampling tasks. Conduct preliminary area monitoring of sampling wells to determine the potential hazard to Field Sampling Personnel. If significant contamination is observed, minimize contact with potential contaminants in both the vapor phase and liquid matrix using appropriate personal protective equipment (PPE).
- 2.2 Observe standard health and safety practices according to the project-specific HASP. Suggested minimum protection during well sampling activities includes inner disposable vinyl gloves, outer chemical-protective nitrile gloves, and rubberized steel-toed boots. Half-face respirators and cartridges and Tyvek® suits may be necessary depending on evaluation for PFAS and on the contaminant concentrations. Refer to the project-specific HASP for the required PPE.
- 2.3 The following safety precautions should be observed to minimize physical hazards associated with monitoring well sampling:
  - To avoid lifting injuries associated with pump and bailers retrieval, use the large muscles of the legs, not the back
  - Stay clear of all moving equipment, and avoid wearing loose fitting clothing.
  - When using tools for cutting purposes, cut away from yourself. The use of appropriate, task-specific cutting tools is recommended.
  - To avoid slip/trip/fall conditions as a result of pump discharge, use textured boots/boot cover bottoms.
  - To avoid heat/cold stress as a result of exposure to extreme temperatures and PPE, drink electrolyte replacement fluids (1 to 2 cups per hour is recommended) and, in cases of extreme cold, wear fitted insulating clothing.
  - Be aware of restricted mobility due to PPE.

#### 3.0 Terms and Definitions

None.

#### 4.0 Interferences

- 4.1 Potential interferences could result from cross-contamination between samples or sample locations.

  Minimization of the cross-contamination will occur through the following:
  - The use of clean sampling tools at each location as necessary; and
  - Avoidance of material that is not representative of the media to be sampled.

#### 5.0 Training and Qualifications

5.1 Qualifications and Training

The individual executing these procedures must have read, and be familiar with, the requirements of this SOP.

- 5.2 Responsibilities
  - 5.2.1 The **Field Team Coordinator** is responsible for ensuring that monitoring well sampling activities comply with this procedure. The **Field Team Coordinator** is responsible for ensuring that **Field Personnel** involved in monitoring well sampling shall have the appropriate education, experience, and training to perform their assigned tasks.
  - 5.2.2 The **Project Manager** is responsible for ensuring overall compliance with this procedure.
  - 5.2.3 All **Field Personnel** are responsible for the implementation of this procedure.

#### 6.0 Equipment and Supplies

- 6.1 If sampling for PFAS, the sampler must take additional care to ensure no cross-contamination occurs from sampling equipment. Reference the Field Sampling Plan (FSP) for best practices regarding sampling equipment when necessary.
- 6.2 Purging and Sampling Equipment
  - Pump (peristaltic, portable bladder, submersible)
  - Polyethylene bladders (for portable bladder pumps)
  - Bladder pump controller (for portable bladder pumps)
  - Air compressor (for portable bladder pumps)
  - Nitrogen cylinders (for portable bladder pumps)
  - 12-volt power source
  - Polyethylene inlet and discharge tubing
  - Silicone tubing appropriate for peristaltic pump head
  - High density polyethylene (HDPE) bailer appropriately sized for well
  - Disposable bailer string (polypropylene)
  - Individual or multi-parameter water quality meter(s) with flow-through cell to measure temperature, pH, specific conductance, dissolved oxygen (DO), oxidation reduction potential (ORP), and/or turbidity
  - Turbidity meter
  - Water level meter
  - Oil/water interface probe



#### 6.3 General Equipment

- Sample kit (i.e., bottles, labels, preservatives, custody records and tape, cooler, wet ice)
- Sample chain-of-custody (COC) forms
- Sample Collection Records
- Sample packaging and shipping supplies
- Fine-tipped Sharpie® marker
- Deionized water supply
- Polyethylene water dispenser bottles
- HDPE flow measurement cup or bucket
- 5-gallon buckets
- Instrument calibration solutions
- Stopwatch or watch
- Disposable, powderless Nitrile gloves
- Cotton towels
- Trash bags
- Zipper-lock (e.g., Ziploc brand) bags
- Equipment decontamination supplies (e.g., Alconox®, Liquinox®, NOT Decon 90™)
- Health and safety supplies (as required by the HASP)
- Well keys or combinations
- Monitoring well location map(s)
- Field project logbook/ballpoint pen

#### 7.0 Calibration or Standardization

- 7.1 Field instruments will be calibrated daily according to the requirements of the FSP and/or manufacturer's specifications for each piece of equipment. Equipment will be checked daily with the calibration solutions at the end of use of the equipment. Calibration records shall be recorded in the field logbook or appropriate field form.
- 7.2 If readings are suspected to be inaccurate, the equipment shall be checked with the calibration solutions and/or re-calibrated.

#### 8.0 Procedure

#### 8.1 Preparation

#### 8.1.1 Site Background Information

Establish a thorough understanding of the purposes of the sampling event prior to field activities. Conduct a review of all available data obtained from the site and pertinent to the water sampling. Review well history data including, but not limited to, well locations, sampling history, purging rates, turbidity problems, previously used purging methods, well installation methods, well completion records, well development methods, previous analytical results, presence of an immiscible phase, historical water levels, and general hydrogeologic conditions.



Previous groundwater development and sampling logs give a good indication of well purging rates and the types of problems that might be encountered during sampling, such as excessive turbidity and low well yield. They may also indicate where dedicated pumps are placed in the water column. To help minimize the potential for cross-contamination, well purging and sampling and water level measurement collection shall proceed from the least contaminated to the most contaminated well, as indicated by previous analytical results. This order may be changed in the field if conditions warrant it, particularly if dedicated sampling equipment is used. A review of prior sampling procedures and results may also identify which purging and sampling techniques are appropriate for the parameters to be tested under a given set of field conditions.

#### 8.2 Groundwater Sampling Procedures

Groundwater sampling procedures at a site shall include:

- 1) An evaluation of the well security and condition prior to sampling
- 2) Decontamination of equipment
- 3) Measurement of well depth to groundwater
- 4) Assessment of the presence or absence of an immiscible phase
- 5) Assessment of purge parameter stabilization
- 6) Purging of static water within the well and well bore and
- Obtaining a groundwater sample.

Each step is discussed in sequence below. Depending upon specific field conditions, additional steps may be necessary. As a rule, at least 24 hours should separate well development and well sampling events.

#### 8.2.1 Well Security and Condition

At each monitoring well location, observe the conditions of the well and surrounding area. If required by the FSP, the following information may be noted on a Groundwater Sample Collection Record (Attachment 1) or in the field logbook:

- · Condition of the well's identification marker
- Condition of the well lock and associated locking cap
- Integrity of the well—well pad condition, protective outer casing, obstructions or kinks in the well casing, presence of water in the annular space, and the top of the interior casing; and
- Condition of the general area surrounding the well.

#### 8.2.2 Decontamination of Equipment

Prior to sampling the first monitoring well and after each monitoring well sample is collected, all nondedicated sampling equipment will be decontaminated following the procedure described in the FSP.

#### 8.2.3 Measurement of Static Water Level Elevation

Before purging the well, measure static water levels in each well on site. If the well cap is not vented, remove the cap several minutes before measurement to allow water levels to equilibrate to atmospheric pressure.

Measure the depth to standing water and the total depth of the well to the nearest 0.01 foot to provide baseline hydrologic data, to calculate the volume of water in the well, and to provide information on the integrity of the well (e.g., identification of siltation problems). If not already present, mark an easily identified reference point for water level measurements that will become



the measuring point for all water level measurements. This location and elevation must be surveyed.

The presence of light, non-aqueous phase liquids (LNAPLs) and/or dense, non-aqueous phase liquids (DNAPLs) in a well requires measurement of the elevation of the top and the bottom of the product, generally using an interface probe. Water levels in such wells must then be corrected for density effects to accurately determine the elevation of the water table.

At each location, measure water levels several times in quick succession to ensure that the well has equilibrated to atmospheric conditions prior to recording the measurement.

#### 8.2.4 Detection of Immiscible Phase Layers

- Complete the following steps for detecting the presence of LNAPL and DNAPL before the well
  is purged for conventional sampling. These procedures may not be required for all wells.
   Consult the FSP prior to field deployment to determine if assessing the presence of LNAPL
  and/or DNAPL is necessary.
- Sample the headspace in the wellhead immediately after the well is opened for organic vapors
  using either a photoionization detector (PID) or an organic vapor analyzer and record the
  measurements.
- Lower an interface probe into the well to determine the existence of any immiscible layer(s), LNAPL and/or DNAPL, and record the measurements.
- Confirm the presence or absence of an immiscible phase by slowly lowering a clear bailer to the appropriate depth, then visually observing the results after sample recovery.
- In rare instances, such as when very viscous product is present, it may be necessary to utilize hydrocarbon- and water-sensitive pastes for measurement of LNAPL thickness. This is accomplished by smearing adjacent, thin layers of both hydrocarbon- and water-sensitive pastes along a steel measuring tape and inserting the tape into the well. An engineering tape showing tenths and hundredths of feet is required. Record depth to water, as shown by the mark on the water-sensitive paste, and depth to product, as shown by the mark on the product-sensitive paste. In wells where the approximate depth to water and product thickness are not known, it is best to apply both pastes to the tape over a fairly long interval (5 feet or more). Under these conditions, measurements are obtained by trial and error and may require several insertions and retrievals of the tape before the paste-covered interval of the tape encounters product and water. In wells where approximate depths of air-product and product-water interfaces are known, pastes may be applied over shorter intervals. Water depth measurements should not be used in preparation of water table contour maps until they are corrected for depression by the product.
- If the well contains an immiscible phase, it may be desirable to sample this phase separately.
   Section 8.2.6 presents immiscible phase sampling procedures. It may not be meaningful to conduct water sample analysis of water obtained from a well containing LNAPLs or DNAPLs (consult the **Project Manager**).

#### 8.2.5 Purging Equipment and Use

#### 8.2.5.1 General Requirements

The water present in a well prior to sampling may not be representative of in situ groundwater quality and shall be removed prior to sampling. Handle all groundwater removed during sampling in accordance with the investigation-derived waste handling procedures in the FSP. Purging shall be accomplished by methods as indicated in the FSP or by those required by state requirements.



The purge rate should be low enough that substantial drawdown in the well does not occur during purging. In addition, a low purge rate will reduce the possibility of stripping volatile organic compounds (VOCs) from the water and will reduce the likelihood of increasing the turbidity of the sample due to mobilizing colloids in the subsurface that are immobile under natural flow conditions.

The field sampler shall ensure that purging does not cause formation water to cascade down the sides of the well screen. Wells should not be purged to dryness if recharge causes the formation water to cascade down the sides of the screen, as this will cause an accelerated loss of volatiles. This problem should be anticipated based on the results of either the well development task or historical sampling events. In general, place the intake of the purge pump in the middle of the saturated screened interval within the well to allow purging, and at the same time minimize disturbance/overdevelopment of the screened interval in the well. Water shall be purged from the well at a rate that does not cause recharge water to be excessively agitated unless an extremely slow recharging well is encountered where complete evacuation is unavoidable. During the well purging procedure, collect water level and/or product level measurements to assess the hydraulic effects of purging and increase or decrease purge rate as needed. If the well is purged dry, allow the well to recover sufficiently to provide enough water for the specified analytical parameters, and then sample it.

The groundwater pump will be connected in-line to a water quality meter. Every five minutes during purging, record the temperature, pH, specific conductivity, DO, ORP, and turbidity on the groundwater sample form. Purging shall be considered complete once three consecutive parameters have stabilized to the parameter-specific requirements detailed on the groundwater sample form (Attachment 1). Once these stability metrics have been met, sample the well.

#### 8.2.5.2 Purging Equipment and Methods

#### Submersible Pump

A stainless-steel submersible pump may be utilized for purging both shallow and deep wells prior to sampling the groundwater for semivolatile and non-volatile constituents but *is* generally not preferred for VOCs unless there are no other options (e.g., well over 200 feet deep). For wells over 200 feet deep, the submersible pump is one of the few technologies available to feasibly accomplish purging under any yield conditions. For shallow wells with low yields, submersible pumps are generally inappropriate due to overpumpage of the wells (<1 gallon per minute), which causes increased aeration of the water within the well.

Steam clean or otherwise decontaminate the pump and discharge tubing prior to placing the pump in the well. The submersible pump shall be equipped with an anti-backflow check valve to limit the amount of water that will flow back down the drop pipe into the well. Place the pump in the middle of the saturated screened interval within the well and maintain it in that position during purging.

#### Bladder Pump

A stainless-steel bladder pump can be utilized for purging and sampling wells up to 200 feet in depth for volatile, semivolatile, and non-volatile constituents. Use of the bladder pump is most effective in low to moderate yield wells and *is* often the preferred method for low-flow sampling. When sampling for VOCs and/or semi-volatile organic compounds (SVOCs) and PFAS, polyethylene bladders and PFAS-free O-rings and pump accessories should be used.



Either compressed dry nitrogen or compressed dry air, depending upon availability, can operate the bladder pump. The driving gas utilized must be dry to avoid damage to the bladder pump control box. Decontaminate the bladder pump prior to use.

#### Centrifugal, Peristaltic, or Diaphragm Pump

A centrifugal, peristaltic, or diaphragm pump may be utilized to purge a well if the water level is relatively shallow. New or dedicated HDPE tubing is inserted into the midpoint of the saturated screened interval of the well. Water should be purged at a rate that satisfies low-flow requirements (i.e., does not cause drawdown). Centrifugal, peristaltic, and diaphragm pumps are generally discouraged for VOC sampling; however, follow methods allowed per the project-specific FSP or state requirements.

#### Air Lift Pump

Airlift pumps are not appropriate for purging or sampling.

#### Bailer

Avoid using a bailer to purge a well because it can result in overdevelopment of the well and create excessive purge rates. If a bailer must be used, the bailer should either be dedicated or disposable. An HDPE bailer with polypropylene string mounted on a reel is recommended for lowering the bailer in and out of the well.

Lower the bailer below the water level of the well with as little disturbance of the water as possible to minimize aeration of the water in the well. One way to gauge the depth of water on the reel is to mark the depth to water on the bailer wire with a stainless-steel clip. In this manner, less time is spent trying to identify the water level in the well.

#### 8.2.6 Monitoring Well Sampling Methodologies

#### 8.2.6.1 Sampling Light, Non-Aqueous Phase Liquids (LNAPL)

Collect LNAPL, if present, prior to any purging activities. The sampling device shall generally consist of a dedicated or disposable bailer equipped with a bottom-discharging device. Lower the bailer slowly until contact is made with the surface of the LNAPL and to a depth less than that of the immiscible fluid/water interface depth as determined by measurement with the interface probe. Allow the bailer to fill with LNAPL and retrieve it.

When sampling LNAPLs, never drop bailers into a well and always remove them from the well in a manner that causes as little agitation of the sample as possible. For example, the bailer should not be removed in a jerky fashion or be allowed to continually bang against the well casing as it is raised. Teflon bailers should always be used when sampling LNAPL. The cable used to raise and lower the bailer shall be composed of an inert material (e.g., stainless steel) or coated with an inert material (e.g., Teflon).

#### 8.2.6.2 Sampling Dense, Non-Aqueous Phase Liquids (DNAPL)

Collect DNAPL prior to any purging activities. The best method for collecting DNAPL is to use a double-check valve, stainless steel bailer, or a Kemmerer (discrete interval) sampler. The sample shall be collected by slow, controlled lowering of the bailer to the bottom of the well, activation of the closing device, and retrieval.

#### 8.2.6.3 Groundwater Sampling Methodology

The well shall be sampled when groundwater within it is representative of aquifer conditions, per the methods described in Section 8.2.5. Prior to sampling, the flow-through



cell shall be removed and the samples collected directly from the purge tubing. Flow rates shall not be adjusted once aquifer conditions are met. Additionally, a period of no more than 2 hours shall elapse between purging and sampling to prevent groundwater interaction with the casing and atmosphere. This may not be possible with a slowly recharging well. Measure and record the water level prior to sampling in order to monitor drawdown when using low-flow techniques and gauge well volumes removed and recharged when using non-low-flow techniques.

Only use lab-provided, analyte-specific sample containers. When sampling for VOCs, sample containers are to be filled such that a positive meniscus forms on the top of the container with no overflow. No headspace may be present, which can be confirmed by tightly sealing the container and flipping it over. If a visible air bubble is present, add a small amount of the groundwater to the cap of the container and pour it gently onto the meniscus.

All samples are to be quickly placed into a cooler with ice. If samples are to be kept over several days, ice must be replenished as it melts, typically once a day.

Sampling equipment (e.g., especially bailers) shall never be dropped into the well, as this could cause aeration of the water upon impact. Additionally, the sampling methodology utilized shall allow for the collection of a groundwater sample in as undisturbed a condition as possible, minimizing the potential for volatilization or aeration. This includes minimizing agitation and aeration during transfer to sample containers, minimizing exposure to sunlight, and immediately placing the sample on ice once collected.

Sampling equipment shall be constructed of inert material. Equipment with neoprene fittings, polyvinyl chloride (PVC) bailers, Tygon® tubing, silicon rubber bladders, neoprene impellers, polyethylene, and Viton® are not acceptable when sampling for organics and PFAS. If bailers are used, an inert cable/chain (e.g., polypropylene string or stainless-steel wire or cable) shall be used to raise and lower the bailer. Dedicated equipment is highly recommended for all sampling programs.

#### Submersible Pump

The submersible pump must be specifically designed for groundwater sampling (i.e., pump composed of stainless steel and HDPE, sample discharge lines composed of HDPE) and must have a controller mechanism allowing the required low-flow rate. Adjust the pump rate so that flow is continuous and does not pulsate to avoid aeration and agitation within the sample discharge lines. Run the pump for several minutes at the low-flow rate used for sampling to ensure that the groundwater in the lines was obtained at the low-flow rate.

#### Bladder Pump

A gas-operated stainless steel bladder pump with adjustable flow control and equipped with a polyethylene bladder and HDPE tubing can be effectively utilized to collect a groundwater sample and is considered to be the best overall device for sampling inorganic and organic constituents. If only inorganics are being sampled, polyvinyl bladders and tubing may be used. Operate positive gas displacement bladder pumps in a continuous manner so that they minimize discharge pulsation that can aerate samples in the return tube or upon discharge.

When using a compressor, take several precautions. If the compressor is being powered by a gasoline generator, position the generator downwind of the well. Ground fault circuit interrupters (GFCIs) should always be used when using electric powered equipment. Do



not connect the compression hose from the compressor to the pump controller until after the engine has been started.

When all precautions are completed and the compressor has been started, connect the compression hose to the pump controller. Slowly adjust the control knobs to discharge water in the shortest amount of time while maintaining a near constant flow. This does not mean that the compressor must be set to discharge the water as hard as possible. The optimal setting is one that produces the largest volume of purge water per minute (not per purge cycle) while maintaining a near constant flow rate.

Prior to sampling, adjust the flow rate (purge rate) to yield 100 to 300 milliliters (mL) per minute. Avoid settings that produce pulsating streams of water instead of a steady stream if possible. Operate the pump at this low-flow rate for several minutes to ensure that drawdown is not occurring. At no time shall the sample flow rate exceed the flow rate used while purging.

For those samples requiring filtration, it is recommended to use an in-line high-capacity filter after all non-filtered samples have been collected.

#### Peristaltic Pump

A peristaltic pump is a type of positive displacement pump that moves water via the process of peristalsis. The pump uses a flexible hose fitted inside a circular pump casing. A rotor with cams compresses the flexible tube as the rotor turns, which forces the water to be pumped to move through the tube. In peristaltic pumps, no moving parts of the pump are in contact with the water being pumped. Displacement is determined by tube size, so delivery rate can only be changed during operation by varying pump speed. Peristaltic pumps are simple and quite inexpensive for the flow rates they provide.

There are several methods available for transferring the sample into the laboratory containers. The selected method may vary based on state requirements and should be documented in the FSP. Samples typically can be collected directly from the discharge end of the HDPE tubing, after it has been disconnected from the flow through cell. For volatile analyses, the sampler should make sure that the pump is set such that a smooth laminar flow is achieved. In all cases, the project team should consult their local regulatory requirements and document the selected sample collection procedure in the project-specific Quality Assurance Project Plan (QAPP).

#### Bailer

A single- or double-check valve HDPE or stainless steel bailer equipped with a bottom discharging device can be utilized to collect groundwater samples. Bailers have a number of disadvantages, however, including a tendency to alter the chemistry of groundwater samples due to degassing, volatilization, and aeration; the possibility of creating high groundwater entrance velocities; differences in operator techniques resulting in variable samples; and difficulty in determining where in the water column the sample was collected. Therefore, use bailers for groundwater sampling only when other types of sampling devices cannot be utilized for technical, regulatory, or logistical reasons.

Dedicated or disposable bailers should always be used in order to eliminate the need for decontamination and to limit the potential of cross-contamination. Each time the bailer is lowered to the water table, lower it in such a way as to minimize disturbance and aeration of the water column within the well.

#### 8.2.7 Sample Handling and Preservation

Many of the chemical constituents and physiochemical parameters to be measured or evaluated during groundwater monitoring programs are chemically unstable and require preservation. The U.S. Environmental Protection Agency (EPA) document entitled *Test Methods for Evaluating Solid Waste – Physical/Chemical Methods (SW-846)* (EPA 1997) includes a discussion of appropriate sample preservation procedures. In addition, SW-846 provides guidance on the types of sample containers to use for each constituent or common set of parameters. In general, check with specific laboratory or state requirements prior to obtaining field samples. In many cases, the laboratory will supply the necessary sample bottles and required preservatives. In some cases, **Field Sampling Personnel** may add preservatives in the field.

Improper sample handling may alter the analytical results of the sample. Therefore, transfer samples in the field from the sampling equipment directly into the container that has been prepared specifically for that analysis or set of compatible parameters as described in the project-specific FSP. It is not an acceptable practice for samples to be composited in a common container in the field and then split in the laboratory or poured first into a wide-mouth container and then transferred into smaller containers.

Collect groundwater samples and place them in their proper containers in the order of decreasing volatility and increasing stability. A preferred collection order for some common groundwater parameters is:

- VOCs and total organic halogens (TOX)
- Dissolved gases, total organic carbon (TOC), total fuel hydrocarbons
- 3. Semivolatile organics, pesticides
- 4. Total metals, general minerals (unfiltered)
- 5. Dissolved metals, general minerals (filtered)
- 6. Phenols
- 7. Cyanide
- 8. Sulfate and chloride
- 9. Nitrate and ammonia
- 10. Radionuclides

When sampling for VOCs, collect water samples in vials or containers specifically designed to prevent loss of VOCs from the sample. The analytical laboratory performing the analysis shall provide these vials. Collect groundwater from the sampling device in vials by allowing the groundwater to slowly flow along the sides of the vial. Sampling equipment shall not touch the interior of the vial. Fill the vial above the top of the vial to form a positive meniscus with no overflow. No headspace shall be present in the sample container once the container has been capped. This can be checked by inverting the bottle once the sample is collected and tapping the side of the vial to dislodge air bubbles. Sometimes it is not possible to collect a sample without air bubbles, particularly water that has high concentrations of dissolved gases. In these cases, the **Field Sampling Personnel** shall document the occurrence in the field logbook and/or sampling worksheet at the time the sample was collected. Likewise, the analytical laboratory shall note in the laboratory analysis reports any headspace in the sample container(s) at the time of receipt by the laboratory.

#### 8.2.7.1 Special Handling Considerations

In general, samples for organic analyses should not be filtered. However, high turbidity samples for polychlorinated biphenyl (PCB) analysis may require filtering. Consult the project-specific QAPP for details on filtering requirements. Samples shall not be transferred from one container to another because this could cause aeration or a loss of organic material onto the walls of the container. TOX and TOC samples should be handled in the same manner as VOC samples.

When collecting total and dissolved metals samples, the samples should be collected sequentially. The total metals sample is collected from the pump unfiltered. The dissolved metals sample is collected after filtering with a 0.45-micron membrane in-line filter. Allow at least 500 mL of effluent to flow through the filter prior to sampling to ensure that the filter is thoroughly wetted and seated in the filter capsule. If required by the project-specific QAPP, include a filter blank for each lot of filters used and always record the lot number of the filters.

Because there is some evidence that PFOS may sorb onto glass fiber filters, it is preferred not to filter samples for PFAS analysis in the field or laboratory. Field filtration is generally prohibited unless specifically requested by a client. If filtering is required by client's and regulatory agency's request, it is recommended that the following be considered and discussed with the client and regulatory agency:

- Evaluate if filtered results are meaningful, and, therefore, if filtering in the field or laboratory is required;
- Consider use of low-flow sampling in the field to reduce the need for sample filtering;
- Consider use of a centrifuge in the laboratory to reduce the need for sample filtering;
   and
- If filtering is required, determine the nature of the filters used and do not use glass fiber filters.

#### 8.2.7.2 Field Sampling Preservation

Preserve samples immediately upon collection. Ideally, sampling containers will be prepreserved with a known concentration and volume of preservative. Certain matrices that have alkaline pH (greater than 7) may require more preservative than is typically required. An early assessment of preservation techniques, such as the use of pH strips after initial preservation, may therefore be appropriate. Guidance for the preservation of environmental samples can be found in the U.S. EPA *Handbook for Sampling and Sample Preservation of Water and Wastewater* (EPA 1982). Additional guidance can be found in other U.S. EPA documents (EPA 1992, 1996).

#### 8.2.7.3 Field Sampling Log

A groundwater sampling log provided as Attachment 1 shall document the following:

- Identification of well
- Well depth
- Static water level depth and measurement technique
- · Presence of immiscible layers and detection method
- Well yield
- Purge volume and pumping rate



- Time that the well was purged
- · Sample identification numbers
- Well evacuation procedure/equipment
- Sample withdrawal procedure/equipment
- Date and time of collection
- Types of sample containers used
- Preservative(s) used
- Parameters requested for analysis
- Field analysis data
- Field observations on sampling event
- Name of sampler
- Weather conditions

#### 9.0 Quality Control and Assurance

- 9.1 **Field Personnel** will follow specific quality assurance (QA) guidelines as outlined in the project-specific FSP. The goal of the QA program should be to ensure precision, accuracy, representativeness, completeness, and comparability in the project sampling program.
- 9.2 Quality control (QC) requirements for sample collection are dependent on project-specific sampling objectives. The project-specific FSP will provide requirements for sample preservation and holding times, container types, and sample packaging and shipment, as well as requirements for the collection of various QC samples such as trip blanks, field blanks, equipment rinse blanks, and field duplicate samples.

#### 10.0 Data and Records Management

- 10.1 Records will be maintained in accordance with SOP 3-03, Recordkeeping, Sample Labelling, and Chain-of-Custody. Various forms are required to ensure that adequate documentation is made of the sample collection activities. These forms may include:
  - Sample Collection Records;
  - Non-water repellent field logbook;
  - · COC forms; and
  - Shipping labels.
- 10.2 Sample collection records (Attachment 1) will provide descriptive information for the purging process and the samples collected at each monitoring well.
- 10.3 The field logbook is kept as a general log of activities and should not be used in place of the sample collection record.
- 10.4 COC forms are transmitted with the samples to the laboratory for sample tracking purposes.

#### 11.0 Attachments or References

Attachment 1 - Groundwater Sampling Collection Record

ASTM Standard D5088. 2008. Standard Practice for Decontamination of Field Equipment Used at Waste Sites. ASTM International, West Conshohocken, PA. 2008. DOI: 10.1520/D5088-02R08. www.astm.org.



EPA (Environmental Protection Agency, United States). 1982. *Handbook for Sampling and Sample Preservation of Water and Wastewater*. EPA-600/4-82-029. Cincinnati: EPA Office of Research and Development, Environmental Monitoring and Support Laboratory.

EPA. 1992. RCRA Groundwater Monitoring Draft Technical Guidance. EPA/530/R-93/001. Office of Solid Waste. November.

EPA. 1996. *Ground Water Issue: Low-Flow (Minimal Drawdown) Ground-Water Sampling Procedures*. EPA/540/S-95/504. Office of Solid Waste and Emergency Response. April.

EPA. 1997. Test Methods for Evaluating Solid Waste, Physical/Chemical Method (SW-846). 3rd ed., Final Update IIIA. Office of Solid Waste. Online updates at: <a href="http://www.epa.gov/epaoswer/hazwaste/test/new-meth.htm">http://www.epa.gov/epaoswer/hazwaste/test/new-meth.htm</a>.

SOP 3-03, Recordkeeping, Sample Labelling, and Chain-of-Custody.

Author	Reviewer	Revisions (Technical or Editorial)
Mark Kromis Program Chemist	Chris Barr Program Quality Manager	Rev 0 – Initial Issue (May 2012)
Ken O'Donnell, PG Geologist	Claire Mitchell, PE, PMP Senior Engineer	Rev 1 – PFAS sampling update (July 2019)
Rose Kelley, Environmental Scientist	Richard Purdy, Project Scientist	Rev 2 – Update & Review (June 2022)
Alex McLean, Geologist	Jennifer Ray, Environmental Engineering	Rev 3 – Update & Review (February 2025)



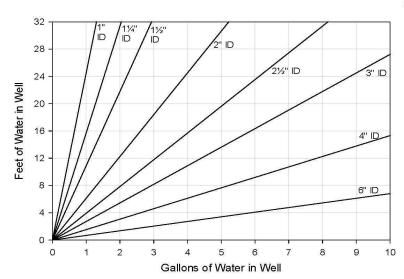
# Attachment 1 Groundwater Sample Collection Record

						Well ID:	
Gro	undwater S	ample	e Coll	ection	Reco	ď	
Client:		Dat	:e:		Tin	ne: Start_	am/pm
Project No:						Finish	am/pm
		— <u> </u>	114/->				
Weather Conds:			niector(s)	·			
1. WATER LEVEL DATA: (mea	sured from Top of	Casing)					
a. Total Well Length	_ c. Length of Wa	ter Colur	nn	(a-b)		Casing Diam	eter/Material
b. Water Table Depth	_ d. Calculated W	ell Volum	<b>1e</b> (see bac	:k)			
2. WELL PURGEABLE DATA a. Purge Method:							
<ul> <li>b. Acceptance Criteria define</li> <li>- Minimum Required Purge</li> <li>- Maximum Allowable Turbi</li> <li>- Stabilization of parameters</li> </ul>	Volume (@ dityNT	well volu Us	ımes)				
c. Field Testing Equipment us	sed: Make			Model		Serial	Number
Volume Time Removed Temp. pH (min) (gal) (°C) s.u.	Spec. Cond. (μS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (m)	Color/Odor/eto
	+ +						
d. Acceptance criteria pass/fi Has required volume been Has required turbidity beer Have parameters stabilized If no or N/A - Explain b	removed n reached d		N/A				(continued on back)
3. SAMPLE COLLECTION:	Method:						_
Sample ID Container Type	No. of Containe	ers	Presei	rvation	Analysi	s Req.	Time
Comments							
Signature_					Date		

Page 1 of 2



#### **Purge Volume Computation**



Well ID:	
----------	--

Volume / Linear Ft. of Pipe								
ID (in)	Gallon	Liter						
1/4	0.0025	0.0097						
3/8	0.0057	0.0217						
1/2	0.0102	0.0386						
3/4	0.0229	0.0869						
1	0.0408	0.1544						
11/4	0.0637	0.2413						
11/2	0.0918	0.3475						
2	0.1632	0.6178						
21/2	0.2550	0.9653						
3	0.3672	1.3900						
4	0.6528	2.4711						
6	1.4688	5.5600						

(continued fr	om front)									
	Volume									
Time	Removed	Temp.	pН	Spec. Cond.	DO	ORP	Turbidity	Flow Rate	Drawdown	Color/Odor/etc
(min)	(gal)	(°C)	s.u.	(μS/cm)	(mg/L)	(mV)	(NTU)	(ml/min)	(m)	
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Signature Date

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